

COM3- List of national and international assignments in Frequency order

VHF Channel	DME Channel	MLS Channel	CTY	Location	SAFIRE Ref	Service	Rwy Designat Id or	Co-ordinates	TRD	VHFDOC	DMEDEC	MLSDOC	MaxFL	VHF EIRP	DME EIRP	Remarks
000.000	0		RUS	MINERALNYE VODY	3223	VOR/DME		@441500N 430000E			250/500		500	17	37	
			RUS	NOVOSIBIRSK	3651	ILS	IKT		550400N 830500E			25/62.5		62		
				KHABAROVSK	3652	ILS	LLZ	550100N 824000E			25/62.5		62			
					3648	ILS	IUF	483100N1351100E			25/62.5		62			
					3649	ILS	IBD	483100N1351100E			25/62.5		62			
					3650	ILS	IHI	483100N1351100E			25/62.5		62			
				IRKUTSK	3646	ILS	CN	521600N1042400E			25/62.5		62			
					3647	ILS	IIR	521600N1042400E			25/62.5		62			
				EDINKA	3645	VOR	DE	471000N1383900E			300/450		450	17		
				CHITA	3642	ILS		520200N1131800E			25/62.5		62			SERVICE = NIS
					3643	ILS	IDG	520200N1131800E			25/62.5		62			
					3644	ILS	IZM	520200N1131800E			25/62.5		62			
				SUKHOTINO	3263	VOR		543600N 372000E			200/500		500	17		IDOC=200E-SE/100
				PETROVSKOYE	3245	VOR		514300N 401100E			200/500		500	17		IDOC=200NW&S/60
				BRYANSK	3219	VOR		532000N 341600E			200/500		500	17		IDOC=200SW&N-NE/80
				BELYOZORSK	3218	VOR		600200N 374500E			150/500		500	17		IDOC=150W&S/80
				BELY	3217	VOR		@555100N 325600E			150/500		500	17		
			TJK	DUSHANBE	3654	ILS	IFN	362900N 684800E			25/62.5		62			
108.000	17X		TUR	USAK	4320	VOR/DME	USK	384101N 292331E			80/250		250	17	37	
			D	ALL GERMANY	4420	VOR	TSI	ALL GERMANY(LAND)			25/100		100	19		TEST + NIS (DGNSS)
108.050	17Y		MRC	TANGER/IBN BATOUTA	31807	VOR/DME	TNR	354403N 055609W			150/500		200/500	500	20	37
108.100	18X		ALG	JJUEL/FERHAT ABBAS	72186	ILS/DME	17 JL	364654N 055234E			25/62.5	25/100	100			29
				BECHAR/BEN ALI LOTFI	61910	ILS/DME	18 BC	TRD 313745N 021540W 313922N 021536W		1	25/62.5	25/100	100			29
								TRD 480723N 163436E								
			AUT	WIEN/SCHWECHAT	4573	ILS/DME	34 OEN	480529N 163532E 480529N 163533E		164	25/62.5	25/100	100			27
			BIH	MOSTAR	6544	ILS/DME	33 MOS	TRD 431624N 175117E 431624N 175118E		158	25/62.5	25/150	150			29
			F	HYERES	5264	ILS/DME	5 HY	TRD 430624N 060943E 430546N 060847E		231	25/62.5	25/250	250			29
			FIN	PORI	35445	ILS/DME	30 PO	TRD 612810N 214637E 612730N 214821E		126	25/62.5	40/150	150	19	30	
								TRD 543736N 055144W 543654N 055244W								
			G	BELFAST CITY	7313	ILS/DME	4 IHBD	543710N 055230W 543638N 055233W		215	25/62.5	15/100	100			32
								TRD 543724N 055207W 543710N 055230W		35	25/62.5	15/100	100			32
				BENBECULA	3352	ILS/DME	6 IBCL	572900N 072300W			25/62.5	25/100	100			27
					3353	ILS/DME	24 IBUC	572830N 072213W			25/62.5	25/100	100			27
								TRD 562708N 030043W 562712N 030159W								
				DUNDEE	5073	ILS/DME	9 IDDE	562708N 030133W TRD 492607N 023524W		270	25/62.5	15/50	62			29
								492609N 023635W 492610N 023613W		268	25/62.5	25/100	100			27
				GUERNSEY	5400	ILS/DME	9 IUJ	TRD 492604N 023704W 492610N 023551W								
					5401	ILS/DME	27 IGH	492610N 023613W Alt=102		88	25/62.5	25/100	100			27
			I	ROMA/FIUMICINO	7239	ILS/DME	16L IFL	TRD 414833N 121637E 415037N 121551E		341	25/62.5	25/100	100			28 ID IFL AND DME PLANNED 2013
								TRD 432207N 770422E 432019N 770043E								
				KAZ	ALMATY	63665	ILS/DME	23L IAL	432139N 770336E		236	25/62.5	25/100	100		24
			LVA	RIGA	6115	ILS/DME	36 IRP	TRD 566626N 235826E 566433N 235801E		185	25/62.5	25/100	100			27
								344725N 015530W								
			MRC	OJJDA/ANGADS	34341	ILS/DME	13 ANG	544831N 015655W			25/62.5	25/100	100			27
								TRD 610924N 070835E								
			NOR	SOGNDAL	2627	ILS/DME	24 SG	610927N 070822E		59	25/62.5	25/100	100			27
								TRD 710033N 255831E 710100N 255800E								
				HONNINGSVAAG	2551	ILS/DME	26 HV	710033N 255800E		90	25/62.5	25/100	100			27
			POL	KATOWICE	57425	ILS/DME	9 IKAR	TRD 502833N 191637E 532942N 205642E		265	25/62.5	25/100	100			planned 2019
				SZCZYTNO/SZYMAN	28351	ILS/DME	1 SZY	532828N 205554E		199	25/62.5	25/100	100			29
								TRD 670811N 204741E								
			S	GALLIVARE	2839	ILS/DME	30 NG	670744N 204932E		118	25/62.5	25/100	100			27
								TRD 582441N 153922E								
				LINKOPING/SAAB	74287	ILS/DME	29 SL	582410N 154208E TRD 583302N 132224E		112	25/62.5	25/100	100			Will replace 3S2889
								583134N 132250E								
				MALMO/STURUP	2898	ILS/DME	35 SMS	553134N 132251E		173	25/62.5	25/100	100			27
								TRD 360433N 102501E								
			TUN	TUNIS	6204	ILS/DME	27 EBI	360428N 102712E		90	25/62.5	40/100	100			24
								TRD 400640N 325880E								
			TUR	ANKARA/ESENBAGA	3097	ILS/DME	21L IESB	400623N 330022E		36	25/62.5	25/100	100			27
								TRD 365450N 304842E								
				ANTALYA	5095	ILS/DME	36R ITALY	365300N 304832E		186	25/62.5	25/100	100			27

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108.100	18X		TUR	BATMAN	6175	ILS/DME	2 IBAT	TRD 375643N 410736E 375509N 410634E	206	25/62.5	50/250			250		27			
				KUTAHYA	7167	ILS/DME	13 IZFR	TRD 390605N 300843E 390704N 300709E	311	25/62.5	25/100			100		27			
				ISTANBUL/ISTANBUL HAVALIMANI	67285	ILS/DME	9 IUCM	TRD 411524N 284830E TRD 400851N 442527E	270	25/62.5	25/100			100		27	DHMI		
				ARM YEREVAN/ZVARTNOTS	59	ILS	9 IZR	400846N 442238E TRD 404211N 113304E	270	25/62.5				62					
			D		INGOLSTADT	6076	ILS	25L IIGW	484243N 113309E TRD 495753N 064050E	68	25/62.5			62				MIL	
					SPANGDAHLEM	5216	ILS	23 ISPA	496905N 064233E TRD 512511N 092452E	45	25/62.5			62				MIL (US)	
			F		KASSEL-CALDEN	7190	ILS	9 IKSE	512521N 092247E TRD 433700N 012200E	275	25/62.5			62				62	
					TOULOUSE/ENAC	1404	ILS	7 AC	TRD 474653N 062213E		25/62.5			62				62	
			ROU		LUXEUIL/ST SAUVEUR	1208	ILS	11 LXI	474723N 062013E	293	25/62.5			62					MIL
					CAMPIA TURZII	5470	ILS	33 ICP	TRD 463000N 235200E	150	25/62.5			62					
			RUS		MOSKVA/SHEREMETEV	3227	ILS	7	55800N 372500E		25/62.5			62					
			S		LINKOPING/SAAB	2889	ILS	29 SL	TRD 582441N 153922E 582417N 154134E	112	25/62.5			62					
			108.150	18Y		DNK	KARUP	738	ILS/DME	27L KR	TRD 561747N 090715E TRD 474521N 032740W	89	25/62.5	25/100			100		27
							F	LORIENT	4355	ILS/DME	25 BH	474546N 032607W TRD 484423N 022415E	72	25/62.5	25/100			100	
	PARIS/ORLY	3493				ILS/DME	8 OLE	484400N 022400E TRD 444931N 003913E	254	25/62.5	23/100			100		29			
	BERGERAC/ROUMANIER	1027				ILS/DME	28 RM	444923N 003133E TRD 505714N 005622E	94	25/62.5	23/100			100		29			
G		LYDD/LYDD				5712	ILS/DME	21 ILDY	505736N 005628E TRD 534621N 030248W	33	25/62.5	25/100			100		27		
		BLACKPOOL/BLACKPOOL				1567	ILS/DME	28 IBPL	534612N 030108W 534613N 030142W	95	25/62.5	25/100			100		29		
HOL		WOENSRECHT				5038	ILS/DME	25 WDO	TRD 512641N 041925E 512710N 042113E	70	25/62.5	25/100			100		27		
						5040	ILS/DME	7 WDZ	TRD 512714N 042144E 512643N 041950E	250	25/62.5	25/100			100		27		
I		CAMERI				27184	ILS/DME	35 ICAM	TRD 453245N 083952E 453116N 084014E	167	25/62.5	100/0			62		27	MIL	
		SIGONELLA				6170	ILS/DME	10R INSY	TRD 372460N 145700E TRD 453911N 121241E	276	25/62.5	28/100			100		20	MIL USAF	
		TREVISIO/S. ANGELO				33565	ILS/DME	7 ITRE	453849N 121103E TRD 522245N 175108E	247	25/62.5	60/150			50		37	planned 2022	
		POL POWIDZ				64725	ILS/DME	10R IPDZ	Alt=100 TRD 470451N 064712E	287	25/62.5	25/100			103		20	MIL	
SUI		LES EPLATURES				4811	ILS/DME	24 ICF	TRD 470509N 064744E TRD 491412N 183728E	54	25/62.5	25/100			100		27		
SVK		ZILINA				5976	ILS/DME	6 ZNA	491352N 183636E TRD 393836N 430149E	245	25/62.5	25/250			250		27		
TUR		AGRI	5991	ILS/DME	16 IAGR	394009N 430121E TRD 400840N 282606E	345	25/62.5	40/250			250		27					
		CANAKKALE	6182	ILS/DME	4 ICNK	400749N 282501E TRD 362102N 361628E	222	25/62.5	50/250			250		27					
		HATAY	5993	ILS/DME	22 IHY	362102N 361628E TRD 382944N 270042E	43	25/62.5	25/100			100		27					
		IZMIR/IGLI	7117	ILS/DME	17 ICIG	383125N 270027E	356	25/62.5	25/100			100		27					
UKR		KYIV/ANTONOV-2 INTERNATIONAL	73026	ILS/DME	33 IGA	TRD 503713N 301042E 455860N 010000W	328	25/62.5	25/100			100		29					
		F ROCHEFORT/ST-AGNAN	1343	ILS	11 ROC	264351N 114113W SMR		25/62.5			62				INSTR.				
MRC		SMARA	52290	VOR/DME		264351N 114113W	200/500	150/500			500	25	36						
ROU		GALATI	3360	VOR/DME	GLT	452500N 275600E	175/500	175/500			500	20	37						
SVK		KOSICE	4959	VOR/DME	KSC	484059N 211453E	80/100	80/100			100	17	37						
TUR		ESKISEHIR	4723	VOR/DME	ESR	394848N 303049E	20/150	20/150			150	17	27						
D		ALL GERMANY	4421	VOR	TST	ALL GERMANY(LAND)	25/100				100	19		TEST + NIS (DGNSS)					
F		VIENNE/REVENTIN	1427	VOR	VNE	453323N 045300E	40/250				250	17							
RUS		VELIKIYE LUKI	3266	VOR		562200N 302600E	150/500				500	17		IDOC=150W&E/60					
SVK		GERKLJE	7158	VOR/DME	COK	455400N 153100E	50/250	50/250			250	20		37 MIL DVOR					
TUR		ISTANBUL/YENI HAVALIMANI	35413	VOR/DME	LHM	411834N 284332E	60/500	60/500			500	23		37					
F		TOUSSUS-LE-NOBLE	1416	VOR	TSU	@484513N 020608E TRD 361553N 063712E		100/500			500	20							
108.300	20X		ALG	CONSTANTINE	73305	ILS/DME	34 CNT	TRD 361553N 063712E Alt=702 TRD 393504N 471306E	158	25/62.5	25/100			123		20			
								393508N 471312E 393544N 471124E											
				AZE	FUZULI	74586	ILS/DME	11 IFL	393547N 471125E TRD 422749N 261951E	290	25/62.5	25/100			100		29		
				BUL	BEZMER	5302	ILS/DME	30 IZR	422704N 262152E TRD 482023N 114415E	120	25/62.5	25/100			100		29	MIL	
			D	MUNCHEN	6134	ILS/DME	26L IMSW	482034N 114802E TRD 561751N 090745E	83	25/62.5	25/100			100		29	GP 15NM		
			DNK		KARUP	739	ILS/DME	09R KAP	561745N 090452E TRD @592447N	269	25/62.5	25/100			100		29		
									246223E 592445N										
			EST		TALLINN	6338	ILS/DME	08L IIB	244857E Alt=41,40 TRD 432529N 051333E	263	25/62.5	25/100			101	14	20		
			F		MARSEILLE/PROVENCE	4793	ILS/DME	13R MCE	432618N 051219E	315	25/62.5	25/100			100		29		

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108.300	20X	G	LONDON	DERRY/EGLINGTON	1644	ILS/DME	26 IEGT	TRD 550222N 071052W 550243N 070909W 550239N 070943W	73	25/62.5	25/100		100		27		
					1654	ILS/DME	8 IEGN	550239N 070910W 550232N 071015W 550239N 070944W	253	25/62.5	25/100		100		27		
				I	AMENDOLA	36825	ILS/DME	29 IMND	413244N 154144E 413214N 154332E		25/62.5	25/100		100		27	MIL
				KAZ	PETROPAVLOVSK	63803	ILS/DME	23 IPT	TRD 544600N 690911E 544641N 691209E	246	25/62.5	25/100		100		30	
					ATYRAU	63723	ILS/DME	32 IAY	TRD 470820N 514821E 470644N 514936E	330	25/62.5	25/100		100		24	
				LTU	SIJUALAI	4036	ILS/DME	14L ISZ	TRD 555242N 232449E 555418N 232302E	326	25/62.5	25/100		100		27	DME added
				MRC	CASABLANCA/MOHAMMED V	34339	ILS/DME	17R INL	332100N 073500W TRD 700458N 245813E 700335N 245845E 700335N 245844E		25/62.5	25/50		62		20	
					BANAK	2503	ILS/DME	34 BA	TRD 634253N 093512E 634124N 093641E	175	25/62.5	25/100		100		27	
					ORLAND	71565	ILS/DME	33 ORD	634124N 093640E TRD 614947N 060643E 615000N 060700E	154	25/62.5	25/100		100		29	
					SANDANE/ANDA	2615	ILS/DME	26 AD	614946N 060642E TRD 591021N 101532E	84	25/62.5	25/100		100		27	
108.350	20Y	BEL	FLORENNES	TORP	6879	ILS/DME	18 TRP	591142N 101521E	359	25/62.5	25/100		100		29		
				POL	KRAKOW/BALICE	38665	ILS/DME	25 IKRK	TRD 500443N 194731E TRD 522712N 204027E	75	25/62.5	25/250		250	14	29	planned 2021
					MODLIN	9005	ILS/DME	8 IMDX	TRD 522656N 203820E	261	25/62.5	25/100		100		29	
				S	RONNEBY	29009	ILS/DME	1 NDF	TRD 561649N 151608E 561535N 151541E	189	25/62.5	25/100		100		27	
					SKOVDE	2928	ILS/DME	19 SY	TRD 582647N 135802E 582741N 135839E	16	25/62.5	25/100		100		27	
					STOCKHOLM/VASTERAS	2965	ILS/DME	19 SCD	582725N 135810E TRD 593433N 163741E	12	25/62.5	25/100		100		27	
				SVK	BRATISLAVA/IVANKA	3041	ILS/DME	22 OKR	TRD 593558N 163807E TRD 480931N 171147E	44	25/62.5	25/100		100		27	
					ANKARA/ESEBBOGA	3099	ILS/DME	21R IEBG	TRD 481036N 171329E TRD 400651N 325849E	36	25/62.5	25/100		100		27	
					BANDIRMA	7119	ILS/DME	36 IBDM	TRD 400826N 330014E TRD 402010N 275845E	181	25/62.5	25/100		100		27	
					KARS	7082	ILS/DME	06R IKAR	TRD 401826N 275834E TRD 403413N 430812E	244	25/62.5	25/100		100		27	
	VAN	7169	ILS/DME	3 IVAN	TRD 403221N 430601E TRD 382845N 432035E	218	25/62.5	25/100		100		27					
UKR	KYIV/ZHULYANY	6845	ILS/DME	26 IKV	TRD 502403N 302547E TRD 502404N 302744E Alt=0	86	25/62.5	25/100		100		29					
D	ERFURT	3406	ILS	10 IERE	TRD 505841N 105846E 505855N 105837E	277	25/62.5			62							
	HANNOVER/HANNOVER	466	ILS	09L IHNE	TRD 522800N 094225E 522811N 093927E	272	25/62.5			62							
F	LAAGE TOUL	3561 1395	ILS ILS	27 4	ILAW TUL	TRD 535514N 121452E 535456N 121740E	98 216	25/62.5 25/62.5			62 62						
UKR	KRYVYI RIH/LOZUVATKA	4502	ILS	36 IRO	TRD 484700N 060000E TRD 480359N 331239E	185	25/62.5			62							
	ODESSA/TSENTRALNY	3212	ILS	16 IOD	TRD 480359N 331301E TRD 462423N 304107E	343	25/62.5			62							
	FLORENNES	4019	ILS/DME	25R IBFS	TRD 501427N 043731E 501439N 043948E	79	25/62.5	25/100		100		29					
		5291	ILS/DME	8 IFLR	TRD 501447N 044021E 501434N 043800E	260	25/62.5	25/100		100		29					
CZE	KBELY	4328	ILS/DME	24 KD	TRD 500650N 143140E 500724N 143312E	62	25/62.5	25/100		109	14	27	MIL				
D	LEIPZIG	4297	ILS/DME	26R ILNW	TRD @512552N 121238E 512605N	86	25/62.5	25/100		100		29					
DNK	ODENSE	3395	ILS/DME	24 OD	TRD 552811N 101635E 552846N 102007E	60	25/62.5	25/100		100		27					
E	LOGRONO	6715	ILS/DME	29 ILO	TRD 422751N 022003W 422732N 021837W	110	25/62.5	25/100		100		29					
F	PARIS/CH.DE GAULLE	4463	ILS/DME	26L DSU	TRD Alt=354 488931N 023259E 488936N 023554E	85	25/62.5	25/100		100		29					
	TOULOUSE/BLAGNAC	4588	ILS/DME	32R TD	TRD 433821N 012120E 433701N 012236E	143	25/62.5	25/100		100		29					
G	OXFORD	5576	ILS/DME	19 IOXF	TRD 514945N 011920W 514927N 011913W	11	25/62.5	25/100		100		27					
HNG	PECS/POGANY	5268	ILS/DME	34 PCS	TRD 460000N 181400E TRD 403140N 172402E	158	25/62.5	25/100		100		27					
	TARANTO/GROTTAGLIE	5796	ILS/DME	35 ITGT	TRD 403007N 172420E 403007N 172419E	166	25/62.5	25/100		100		28					
S	LINKOPING/MALMEN	29671	ILS/DME	1 CFE	TRD 582434N 153149E 582320N 153109E	198	25/62.5	25/100		100		29					
TUR	BINGOL	7321	ILS/DME	12 IBIN	TRD 385115N 403628E 385154N 403511E	301	25/62.5	25/100		100		27					

DME: Ongoing installation and soon to be in operation.

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VHF Channel	DME Channel	MLS Channel	CTY	Location	SAFIRE Ref	Service	Rwy Designat Id or	Co-ordinates	TRD	VHFDOC	DMEDOC	MLSDOC	MaxFL	VHF EIRP	DME EIRP	Remarks
108.350	20Y		TUR	IGDIR	7320	ILS/DME	12 IIGD	TRD 395857N 435236E 395800N 435100E	310	25/62.5	25/100		100			27
				ORDU	7325	ILS/DME	28 IOGR	TRD 405812N 380358E 405756N 380601E	102	25/62.5	25/100		100		27	
				SIRNAK	7322	ILS/DME	11 ISNK	TRD 372129N 420432E 372213N 420247E	296	25/62.5	25/100		100		27	
				CUKUROVA	7326	ILS/DME	ICKR	365200N 350300E		100	25/62.5	25/100		100		27 Planned
				CENGİZ-TOPEL HAKKARI/YUKSEKOVA	7324 7323	ILS/DME ILS/DME	27 ICNG IIAG	TRD 404412N 300348E 404406N 300348E 373300N 441300E	96	25/62.5	25/100		100	25/62.5	25/100	100
108.400	21X		D	KEMPTEN	502	VOR/DME	KPT	@474445N 102059E Alt=754		80/500	80/500		500	23	39	
				HOL AMSTERDAM	2020	VOR/DME	SPL	521956N 044500E		60/250	60/250		250	17	37	
				ROU SATU MARE	3362	VOR/DME	SAT	474400N 225400E	150/500	150/500		500	20	37		
108.450	21Y		D	TRENT	680	VOR/DME	TRT	543040N 131456E		100/500	100/500		500	23	38	
				F ABBEVILLE	4648	VOR/DME	ABB	500806N 015117E		60/500	60/500		500	17	37	
108.500	22X		ALG	ALGER/H.BOU-MEDIENE	6	ILS/DME	9 HB	TRD 364128N 031248E 364127N 031027E	272	25/62.5	25/100		100			29
				TAMANRASSET/AGUENAR	4442	ILS/DME	20 TM	TRD 224743N 052639E 224926N 052719E	23	25/62.5	25/100		100		29	
				AUT WIEN/SCHWECHAT	87	ILS/DME	16 OEZ	TRD 480507N 163534E 480703N 163453E	344	25/62.5	25/100		100		27	
				D WIESBADEN	5343	ILS/DME	25 ITOU	TRD 500249N 081835E 500303N 082009E	73	25/62.5	25/100		100		29	
				FINNENWERDER	5999	ILS/DME	23 IHFW	TRD 533127N 094842E 533211N 095027E	52	25/62.5	25/100		100		27	
				EST TARTU	6604	ILS/DME	26 IUM	TRD @591926N 263949E 581824N	88	25/62.5	25/100		102	14	20	
				F LANDIVISIAU	4356	ILS/DME	26 LD	TRD 483134N 041022W 483201N 040823W	73	25/62.5	25/100		100		29	
				P/IS/ORLY	3427	ILS/DME	6 ORE	TRD 484411N 022148E 484326N 021926E	242	25/62.5	25/100		100		29	
				SAINT-NAZAIRE/MONT	1370	ILS/DME	25 MT	TRD 471830N 021003W 471856N 020817W	73	25/62.5	25/100		100		29	
				FIN VAASA	5057	ILS/DME	16 VA	TRD 630214N 214616E	343	25/62.5	40/150		150		36	
				G CRANWELL	5947	ILS/DME	26 ICW	TRD 530200N 003000W 543002N 012644W	82	25/62.5	25/100		100		27 MIL	
				DURHAM TEES VALLEY	1847	ILS/DME	23 ITD	TRD 543048N 012506W 543030N 012541W	47	25/62.5	25/100		100		27	
				INVERNESS/INVERNESS	6894	ILS/DME	5 ILN	TRD 543104N 012447W 543017N 012626W	228	25/62.5	25/100		100		27	
				NORTHOLT	6560	ILS/DME	25 INHT	TRD 573203N 040148W 573219N 040312W	230	25/62.5	15/100		100		27	
				SUMBURGH	1839	ILS/DME	9 SUB	TRD 573230N 040246W 573208N 040345W	50	25/62.5	15/100		100		27	
				I ROMA/FIUMICINO	4649	ILS/DME	16C FNN	TRD 513313N 002439W 513313N 002440W	70	25/62.5	25/100		100		27	
				MRC MAHBAS	51588	ILS/DME	36 MBS	TRD 513300N 002500W TRD 595257N 011722W	249	25/62.5	25/100		100		27 MIL	
				NOR LEKNES	2568	ILS/DME	2 LK	TRD 595248N 011812W 595257N 011738W	264	25/62.5	25/100		100		27	
				SOGNDAL	5573	ILS/DME	6 SGD	TRD 595248N 011812W 595257N 011721W	84	25/62.5	25/100		100		27	
S OREBRO	2911	ILS/DME	19 NOE	TRD 414813N 121634E 415003N 121542E	341	25/62.5	25/100		100		28					
TUN TUNIS/CARTHAGE	4359	ILS/DME	29 TKE	TRD 414854N 121622E 414927N 121554E	161	25/62.5	25/100		100		28					
TUR ANTALYA/GAZIPASA	7115	ILS/DME	8 IGZP	TRD 274438N 091427W 274259N 091403W	180	25/62.5	25/63		63		27					
BURSA/YENISEHIR	4483	ILS/DME	25R IYEN	TRD 680857N 133610E 680900N 133600E	208	25/62.5	25/100		100		29					
DIYARBAKIR	7051	ILS/DME	34 IDBN	TRD 680858N 133610E TRD 610919N 070751E	239	25/62.5	25/100		100		27					
KASTAMONU	7174	ILS/DME	18 IKAS	TRD 610920N 070751E TRD 591219N 150150E	12	25/62.5	25/100		100		27					
				KRISTIANSTAD	2881	ILS/DME	19 MK	TRD 591401N 150223E TRD 565430N 140457E	7	25/62.5	25/100		100		26	
				TUNIS/CARTHAGE	4359	ILS/DME	29 TKE	TRD 365119N 101254E 365050N 101433E	113	25/62.5	25/100		100		20	
				ANTALYA/GAZIPASA	7115	ILS/DME	8 IGZP	TRD 361802N 321844E TRD 401506N 293229E	261	25/62.5	25/100		100		27	
				DIYARBAKIR	7051	ILS/DME	34 IDBN	TRD 401536N 293431E TRD 375446N 401137E	74	25/62.5	25/100		100		27	
				KASTAMONU	7174	ILS/DME	18 IKAS	TRD 375251N 401217E TRD 411810N 334739E	163	25/62.5	25/100		100		27	
								6	25/62.5	25/100		100			27	

DME Tx antenna height 9 -> 22 m.

COM3- List of national and international assignments in Frequency order

VHF Channel	DME Channel	MLS Channel	CTY	Location	SAFIRE Ref	Service	Rwy Designat Id or	Co-ordinates	TRD	VHFDOC	DMEDOC	MLSDOC	MaxFL	VHF EIRP	DME EIRP	Remarks
108.500	22X		TUR	MUS	7089	ILS/DME	29R IMUS	TRD 384525N 413816E	116	25/62.5	25/100		100	27		
					4417	ILS/DME	16L IIMR	TRD 384435N 414037E								
					3614	ILS/DME	26R IFD	TRD 381635N 270942E								
					66605	ILS/DME	35 IRI	TRD 381812N 270909E								
								TRD 471500N 691009E								
								TRD 423331N 210214E								
								TRD 482522N 105513E								
								TRD 482530N 105616E								
								TRD 523338N 131853E								
								TRD 523322N 131651E								
108.550	22Y		D	NORDHOLZ	30204	ILS/DME	8 INOO	TRD 451222N 143454E	258	25/62.5	25/101		102	29		
					6838	ILS/DME	24 IPLW	TRD 451324N 143346E								
								TRD 451324N 143346E								
								TRD 451324N 143346E								
								TRD 451324N 143346E								
								TRD 451324N 143346E								
								TRD 451324N 143346E								
								TRD 451324N 143346E								
								TRD 451324N 143346E								
								TRD 451324N 143346E								
108.600	23X		G	KIRK WALL	1700	VOR/DME	KWL	TRD 445540N 171804E	350	25/62.5	25/100		100	29		
					1906	VOR/DME	SUD	TRD 445700N 171745E								
					6354	VOR/DME	YNN	TRD 522714N 094257E								
					1964	VOR/DME	PAR	TRD 522714N 094257E								
					2053	VOR/DME	MAS	TRD 522714N 094054E								
					7144	VOR/DME	ZDA	TRD 482142N 114515E								
					2156	VOR/DME	SES	TRD 482205N 114699E								
								TRD 553432N 120715E								
								TRD 553131N 120807E								
								TRD @591517N								
108.650	23Y		LVA	LAMPEDUSA	6506	VOR/DME	LPD	TRD 441038E 591555N	80/400	80/400		400	17	37		
					32706	VOR/TAC	LLR	TRD 445700N 171745E								
								TRD 522714N 094257E								
								TRD 522714N 094054E								
								TRD 482142N 114515E								
								TRD 482205N 114699E								
								TRD 553432N 120715E								
								TRD 553131N 120807E								
								TRD @591517N								
								TRD 241038E 591555N								
108.700	24X		BIH	BANJA LUKA/MAHOVLJANI	4381	ILS/DME	17 BAL	TRD 445540N 171804E	350	25/62.5	25/100		100	29		
								TRD 445700N 171745E								
								TRD 522714N 094257E								
								TRD 522714N 094054E								
								TRD 482142N 114515E								
								TRD 482205N 114699E								
								TRD 553432N 120715E								
								TRD 553131N 120807E								
								TRD @591517N								
								TRD 241038E 591555N								
108.750	24Y		D	HANNOVER/HANNOVER	467	ILS/DME	09R IHSE	TRD 522714N 094257E	272	25/62.5	25/100		100	29		
								TRD 522714N 094054E								
								TRD 482142N 114515E								
								TRD 482205N 114699E								
								TRD 553432N 120715E								
								TRD 553131N 120807E								
								TRD @591517N								
								TRD 241038E 591555N								
								TRD 241304E Alt=15,20								
								TRD @591551N								
108.800	24Z		F	PARIS/CH DE GAULLE	6858	ILS/DME	08L GLE	TRD 485940N 023327E	250	25/62.5	25/100		101	14	20	
								TRD 485940N 023327E								
								TRD 485940N 023327E								
								TRD 485940N 023327E								
								TRD 485940N 023327E								
								TRD 485940N 023327E								
								TRD 485940N 023327E								
								TRD 485940N 023327E								
								TRD 485940N 023327E								
								TRD 485940N 023327E								

COM3- List of national and international assignments in Frequency order

VHF Channel	DME Channel	MLS Channel	CTY	Location	SAFIRE Ref	Service	Rwy Designat Id or	Co-ordinates	TRD	VHFDOC	DMEDOC	MLSDOC	MaxFL	VHF EIRP	DME EIRP	Remarks
108.700	24X		GEO	KUTAISI/KOPITNARI	39685	ILS/DME	25 IKO	TRD 421028N 422751E 421038N 422938E	80	25/62.5	25/153		153			27
			HOL	DEELEN	6735	ILS/DME	20 DNS	TRD 520245N 055154E 520403N 055227E	21	25/62.5	25/100		100			27
					6736	ILS/DME	2 DNN	TRD 520300N 055050E TRD 454018N 094113E	198	25/62.5	25/100		100			27
			I	BERGAMO/ORIO AL SERIO	4715	ILS/DME	28 BRM	453959N 094314E 454000N 094314E Alt=238, 232, 230	104	25/62.5	25/100		100			28
				PISA/SAN GIUSTO	63485	ILS/DME	04R PSS	TRD 434150N 102430E 434033N 102317E	220	25/62.5	25/25		62			27
				TORINO/CASELLE	6314	ILS/DME	36 ITOC	TRD 451311N 073903E 451130N 073903E 451130N 073904E Alt=303,286,285	182	25/62.5	25/100		100			28
			IRL	KERRY	5241	ILS/DME	26 IKR	TRD 521038N 093230W 521102N 093053W 521056N 093128W	71	25/62.5	25/100		100			27
			ISR	TEL-AVIV/BEN-GURION AIRPORT	2360	ILS/DME	26 BA	320042N 345112E Alt=49		25/62.5	25/100		100			29
				RAMON (TIMNA)	31009	ILS/DME	1 RC	TRD 294418N 350102E	193	25/62.5	25/100		100			29
				LTU	SIAULIAI	4037	ILS/DME	32R IDL	TRD 555301N 232434E 555301N 232434E	146	25/62.5	25/100		100		
	MKD	SKOPJE/PETROVEC	4443	ILS/DME	34 MSK	TRD 415830N 213700E 415711N 213723E	165	25/62.5	25/100		100			27		
	MRC	NADOR/ELAROUJ	4720	ILS/DME	8 TZN	TRD 345933N 030035W 345909N 030224W	258	25/62.5	25/100		100			27		
	NOR	BARDUFLOSS	2508	ILS/DME	28 BF	TRD 690327N 183058E 690308N 183342E Alt=9	109	25/62.5	25/100		100			27		
		BODO/BODO	6971	ILS/DME	25 BD	TRD 671622N 142416E 671621N 142329E	78	25/62.5	25/100		100			27		
		ROROS	2608	ILS/DME	31 RO	TRD 623446N 112011E 623430N 112101E 623429N 112055E	136	25/62.5	25/100		100			27		
		ROU	VADSO CRAIOVA	2663	ILS/DME	7 VD	TRD 700356N 295144E 700400N 295200E 700356N 295255E	267	25/62.5	25/100		100			27	
		S	LYCKSELE	5996	ILS/DME	27 ICV	TRD 441900N 235100E TRD 643229N 184343E	90	25/62.5	25/100		100			37	
			TORSBY	3486	ILS/DME	14 WL	TRD 600856N 125955E 600900N 130000E 600928N 125933E	323	25/62.5	25/100		100			28	
			SUNDSVALL/TIMRA	5502	ILS/DME	16 NST	TRD 623101N 172710E 623200N 172632E 623200N 172632E	338	25/62.5	25/100		100			27	
			GENEVE/COINTRIN	2950	ILS/DME	16 NNN	TRD 461329N 060522E 461456N 060722E 461456N 060721E	340	25/62.5	25/100		100			28	
			SVK	SLIAC	54166	ILS/DME	22 ISW	TRD 483908N 190050E 483746N 190754E	46	25/62.5	25/100		100			27
			TUR	ADANA	4787	ILS/DME	36 FS	TRD 366926N 351741E 366832N 351618E	182	25/62.5	25/100		100			27
				ANTALYA	7021	ILS/DME	5 IADA	TRD 365256N 304728E 365446N 304735E	234	25/62.5	25/100		100			27
				MILAS/BODRUM	7032	ILS/DME	18C IATY	TRD 371520N 273847E 371457N 274045E	6	25/62.5	25/100		100			27
					4232	ILS/DME	28R IGML	TRD 282837N 161928W 282909N 162116W	107	25/62.5	25/100		100			25
			CNR	TENERIFE NORTE	9038	ILS/DME	12 INOR	TRD 282837N 161928W 282909N 162116W	291	25/62.5	25/100		100			29
			BLR	HOMIEL	6759	ILS	28 IMV	TRD 523158N 305932E 523131N 310152E	110	25/62.5			62			
			D	ALTENBURG	5376	ILS	22 IALW	TRD 505824N 122943E 505912N 123037E	40	25/62.5			62			
			E	ROTA	4090	ILS	10 IAOG	TRD 363834N 081924W 363846N 082159W	277	25/62.5			62			
			F	NANCY/OCHEY	1268	ILS	20 NAY	TRD 483413N 055651E 483526N 055737E	20	25/62.5			62			
			S	KALMAR	2867	ILS	16 MQ	TRD 564034N 161747E 564141N 161651E	32	25/62.5			62			
				LINKOPING/SAAB	5192	ILS	11 LSL	TRD 582406N 154206E 582436N 154005E	292	25/62.5			62			
			UKR	IVANO-FRANKIVSK	4494	ILS	10 IIV	TRD 485248N 244229E 485313N 244201E	284	25/62.5			62			
				KYIV/ANTONOV	5681	ILS	33 IGO	TRD 503714N 301043E 503532N 301207E	154	25/62.5			62			
108.750	24Y		BEL	LIEGE/LIEGE	5885	ILS/DME	04R IHH	TRD 503906N 052800E 503754N 052558E	225	25/62.5	25/100		100			32
					55126	ILS/DME	22R IBI	TRD 503743N 052553E 503840N 052655E	45	25/62.5	25/100		100			32
			E	BARCELONA	6647	ILS/DME	2 BLT	TRD 411840N 020544E 411726N 020506E	199	25/62.5	25/100		100			27
			F	ALBERT-BRAY	5399	ILS/DME	27 ABY	TRD 498508N 024018E 498519N 024218E	85	25/62.5	25/250		250			29
			G	HUMBERSIDE	1679	ILS/DME	20 IHS	TRD 533346N 002132W 533443N 002044W	22	25/62.5	25/100		100			27
			HNG	SARMELEK	6928	ILS/DME	16 SMK	TRD 464000N 171000E	346	25/62.5	25/100		100			27

DME added

DIRECTIVE DME

DME: Ongoing installation and soon to be in operation.

RPL GVA ILS 22, 109.9, 3SUI5797, planned to become operational 12/2019

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								TRD 522002N 044425E								
108.750	24Y		HOL	AMSTERDAM/SCHIPHOL	6532	ILS/DME	36C MSA	521832N 044410E 521832N 044410E	183	25/62.5	25/100		100		33	Extended GP - 15NM
			I	VARESE/VENEGONO	4699	ILS/DME	36 IVE	454400N 085300E		25/62.5	25/100		100		29	Planned
			SUI	ST.GALLEN-ALTENRHEIN	4819	ILS/DME	10 IAL	TRD 472901N 093416E 472906N 093316E	279	25/62.5	25/100		100		27	
			TUR	ESKISEHIR	27753	ILS/DME	26 IESK	TRD 394703N 303333E 394707N 303547E	90	25/62.5	25/100		100		27	
			D	COCHSTEDT	4726	ILS	26 ICOW	TRD 515109N 112335E 515122N 112554E	77	25/62.5			62			
108.800	25X		BIH	KARLSRUHE/BADEN TUZLA/DUBRAVE	4213 5070	ILS VOR/DME	21 IKBW TZU	TRD 484558N 080405E 484714N 080509E 442724N 184408E	32	25/62.5	80/500		500	20	30	
			D	COLAJKOLN	5000	VOR/DME	COL	@504701N 073539E Alt=282		60/250	80/250		259	23	39	
			F	MARSEILLE/MIRABEAU	4786	VOR/DME	MRM	@432238N 051935E		100/500	100/500		500	17	37	
			GRC	IRAKLION	1916	VOR/DME	IRA	352100N 251100E		40/250	40/250		250	17	28	
				KERKIRA	1932	VOR/DME	GAR	393600N 195500E		40/250	40/250		250	17	28	TVOR
				KAVALA/CHRISOUPOLI	1928	VOR/DME	KPL	405500N 243700E		40/250	40/250		250	17	28	TVOR
			I	TRAPANI/BIRGI	2266	VOR/TAC	TRP	375348N 123048E Alt=29		80/500	200/500		500	17	39	MIL
			TUR	SABIHA GOKCEN	4801	VOR/DME	SBH	405359N 291913E		40/250	40/250		250	17	28	
108.900	26X		ALG	ORAN/AHMED BENBELLA	72190	ILS/DME	25R RN	TRD 353656N 003843W 353744N 003635W	67	25/62.5	25/100		100		29	
				OUARGLA/AIN BEIDA	51914	ILS/DME	36 OG	TRD 315555N 052501E 315419N 052504E	179	25/62.5	25/100		100		30	
			AZE	FUZULI	74587	ILS/DME	29 IFZ	TRD 393557N 471104E 393516N 471249E	111	25/62.5	25/100		100		29	
			BEL	BRUXELLES/NATIONAL	113 4016	ILS/DME ILS/DME	25R 07L IBR	TRD 506348N 042656E 505441N 042941E	65	25/62.5	25/100		100		29	Planned opposite RWY
			CYP	PAPHOS	220	ILS/DME	29 IPA	TRD 344324N 322805E 344250N 322942E	110	25/62.5	50/100		100		29	
			DNK	KOBENHAVN/KAstrup	743	ILS/DME	30 OY	TRD 553740N 123745E 553651N 123943E	123	25/62.5	25/100		100		27	
			E	VITORIA/VITORIA	936	ILS/DME	4 VTO	TRD 425352N 024235W 425216N 024401W	216	25/62.5	25/100		100		29	
				JEREZ	6734	ILS/DME	20 IJR	TRD 364504N 060358W 364504N 060320W	21	25/62.5	25/100		100		27	
			F	ANGERS-MARCE	998	ILS/DME	26 AS	TRD 473331N 001940W 473342N 001828W	81	25/62.5	23/100		100		29	
				TOULOUSE/BLAGNAC	1398	ILS/DME	14L TG	TRD 433650N 012255E 433804N 012130E	323	25/62.5	25/100		100		29	
				SAINT-DIZIER	4079	ILS/DME	29 SDI	TRD 483830N 045246E 483754N 045438E	113	25/62.5	23/100		100		29	
			FIN	MARIEHAMN	6637	ILS/DME	21 SD	TRD 600646N 195324E 600740N 195402E	23	25/62.5	25/100		100		27	
			G	CRANFIELD	6312	ILS/DME	21 ICR	TRD 520346N 003734W 520432N 003640W	32	25/62.5	25/100		100		27	
				EDINBURGH/EDINBURG	6477	ILS/DME	6 IVG	TRD 55726N 032105W 556652N 032259W	239	25/62.5	25/100		100		27	
					6478	ILS/DME	24 ITH	TRD 55706N 032233W 55717N 032149W	59	25/62.5	25/100		100		27	
			GEO	TBILISI/TBILISI	6722	ILS/DME	31L INA	TRD 414045N 445618E 413933N 445741E	136	25/62.5	25/100		100		27	
			HOL	DE KOOY	6836	ILS/DME	21 DKY	TRD 525505N 044629E 528529N 044647E	35	25/62.5	25/100		100		27	
			I	ROMA/FIUMICINO	2239	ILS/DME	34L IFSW	TRD 414907N 121330E 414704N 121416E	161	25/62.5	25/100		100		28	
				BOLOGNA/BORGO PANIGALE	5323	ILS/DME	12 IBLN	TRD 443145N 111921E 443224N 111650E 443224N 111651E	295	25/62.5	25/100		100		28	
			IRL	DUBLIN/DUBLIN	2297	ILS/DME	10 IDE	TRD 532513N 061441W 532516N 061706W	275	25/62.5	25/100		100		27	
			NOR	ALTA	6191	ILS/DME	11 AT	TRD 698819N 232330E 69882N 232109E	301	25/62.5	25/100		100		27	
				EVENES	6764	ILS/DME	17 EV	TRD 682834N 164047E 683003N 164029E	358	25/62.5	25/100		100		27	
			S	LINKOPING/SAAB	74286	ILS/DME	11 LSL	TRD 582358N 154242E 582421N 154036E	292	25/62.5	25/100		100		27	Will replace 3S5192
			SRB	BEOGRAD/BATAJNICA	9021	ILS/DME	12L BTJ	TRD 445658N 201507E 445642N 201424E	305	25/62.5	25/450		450		29	
			SUI	LUGANO-AGNO	7113	ILS/DME	1 ILU	TRD 460041N 085451E 460001N 085434E	199	25/62.5	01-10-1950		62		14	
			TUR	ANKARA/ESENBOGA EDREMIT	3100 6717	ILS/DME ILS/DME	03L 5 IKFZ	TRD 400839N 330032E 400714N 325904E	216	25/62.5	25/100		100		27	
								393200N 270000E		25/62.5	25/100		100		27	

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VHF Channel	DME Channel	MLS Channel	CTY	Location	SAFIRE Ref	Service	Rwy Designat Id or	Co-ordinates	TRD	VHFDOC	DMEDOC	MLSDOC	MaxFL	VHF EIRP	DME EIRP	Remarks		
108.900	26X		TUR	ERZINCAN	6787	ILS/DME	28 IEZC	TRD 394300N 393029E	111	25/62.5	25/100		100		27			
				HATAY	35945	ILS/DME	4 IHAT	TRD 362228N 361805E	223	25/62.5	25/100		100		27			
				KONYA	7084	ILS/DME	01L IKNY	TRD 375922N 323400E	197	25/62.5	25/100		100		27			
				MARDIN	28145	ILS/DME	3 IMRD	TRD 371404N 403832E	217	25/62.5	25/100		100		37	DHMI		
				SINOP	6183	ILS/DME	23 ISDP	TRD 420044N 350339E	54	25/62.5	25/100		100		37			
				BALIKESIR/KORFEZ	6974	ILS/DME	5 IKFZ	TRD 393341N 270134E	234	25/62.5	25/100		100		27			
				TRABZON/TRABZON	30175	ILS/DME	29 ITRB	TRD 410002N 394619E	112	25/62.5	25/100		100		27	DHMI		
				BLR	MINSK-2	6738	ILS	13 IVX	TRD 535151N 280329E	318	25/62.5					62		
				D	HANNOVER/HANNOVER	468	ILS	27R IHNW	TRD 522806N 093843E	92	25/62.5					62		
					NIEDERSTETTEN	6994	ILS	25 INSW	TRD 492323N 095649E	75	25/62.5					62		MIL
					SIEGERLAND	655	ILS	31 ISIW	TRD 504248N 080418E	128	25/62.5					62		
					HOHN	6074	ILS	26 IMHW	TRD 541834N 093047E	79	25/62.5					62		
				I	ALBENGA	4982	ILS	27 LBN	TRD 440257N 080712E	89	25/62.5					62		
				108.950			D	MONCHENGLADBACH	4162	ILS	13 IMGE	TRD 411136N 204453E	309	25/62.5			62	
RAMSTEIN	5318	ILS	8 IRER					TRD 511331N 063052E	262	25/62.5					62		MIL (US)	
I	COMISO	5861	ILS					5 ICMS	TRD 411018N 204414E	228	25/62.5				62			
ROU	FETESTI	9012	ILS					36 IFS	TRD 442400N 274300E	180	25/62.5				62		MIL	
F	LILLE/LESQUIN	3572	VOR/DME					LEQ	TRD 503342N 030521E	40/250	40/250	250	17	37				
GRC	KOS	1939	VOR/DME					KOS	TRD 364700N 270500E	40/250	40/250	250	17	28		TVOR		
MRC	ESSAOUIRA/MOGADOR	52288	VOR/DME					MGR	TRD 312348N 094105W	200/500	200/500	500	20	37				
ROU	ARAD	3361	VOR/DME					ARD	TRD 461100N 211100E	175/500	175/500	500	20	37				
RUS	MOSKVA/VNUKOVO	3236	ILS					7 FL	TRD 553600N 371700E	100/500	100/500	500	17	30				
	SANKT-PETERBURG/PULK	3256	ILS					28	TRD 594900N 301700E	25/62.5					62			
109.000	27X		D	COLEMAN BARRACKS	7426	VOR	HDM	TRD 501844N 305243E	3	25/62.5			62					
				UKR	KYIV/BORISPOL'	3195	ILS	18R IKB	TRD 502058N 305244E	3	25/62.5				62			
				D	MONCHENGLADBACH	4162	ILS	13 IMGE	TRD 511400N 063005E	309	25/62.5				62			
					RAMSTEIN	5318	ILS	8 IRER	TRD 492613N 073741E	262	25/62.5				62			
				I	COMISO	5861	ILS	5 ICMS	TRD 370016N 143719E	228	25/62.5				62			
				ROU	FETESTI	9012	ILS	36 IFS	TRD 366921N 143604E	180	25/62.5				62		MIL	
				F	LILLE/LESQUIN	3572	VOR/DME	LEQ	TRD 442400N 274300E	40/250	40/250	250	17	37				
				GRC	KOS	1939	VOR/DME	KOS	TRD 503342N 030521E	40/250	40/250	250	17	28		TVOR		
				MRC	ESSAOUIRA/MOGADOR	52288	VOR/DME	MGR	TRD 364700N 270500E	200/500	200/500	500	20	37				
				ROU	ARAD	3361	VOR/DME	ARD	TRD 312348N 094105W	175/500	175/500	500	20	37				
				TUN	GAFFSA	71665	VOR/DME	GAF	TRD 461100N 211100E	100/500	100/500	500	17	30				
				D	COLEMAN BARRACKS	7426	VOR	HDM	TRD 493400N 082800E	25/100		100	20			MIL (US)		
					TRABZON/TRABZON	30175	ILS/DME	29 ITRB	TRD 412359N 194321E	354	25/62.5	25/100			100	29		
				109.100	28X		ALB	TIRANA/RINAS	5740	ILS/DME	17 ITR	TRD 412527N 194315E	174	25/62.5	25/100		100	14
HASSI MESSAOUD/OUED IRARA	51545	ILS/DME	35 ILI					TRD 412424N 194307E	174	25/62.5	25/100		100	14	29			
ALG	IRARA	32	ILS/DME					36 HM	TRD 412419N 194324E	184	25/62.5	25/100		100	29			
	IRARA	32	ILS/DME					36 HM	TRD 391030N 452828E	184	25/62.5	25/100		100	29			
AZE	NAKHICHEVAN	56845	ILS/DME					32R INO	TRD 391204N 452638E	138	25/62.5	25/100		100	14	24		
	ZAGATALA	6129	ILS/DME					33 IZK	TRD 391152N 452658E	158	25/62.5	25/100		100	29			
GZE	PRAHA/RUZYNE	4240	ILS/DME					24 PR	TRD 413421N 060830E	65	25/62.5	25/100		112	14	27		
D	BERLIN/TEGEL	297	ILS/DME					08L ITLE	TRD 523345N 131858E	261	25/62.5	25/100		100	27			
	ERFURT	51768	ILS/DME					10 IERE	TRD 523333N 131613E	277	25/62.5	25/100		100	29			
	KOLN/KOLN-BONN	4453	ILS/DME					24 IKOW	TRD 523400N 131900E	64	25/62.5	25/100		100	27			
	NURNBERG/NURNBERG	4342	ILS/DME					28 INUW	TRD 505856N 105637E	99	25/62.5	25/100		100	27			
DNK	ESBJERG	5549	ILS/DME					8 OO	TRD @605132N	64	25/62.5	25/100		100	27			
	FAROE ISLANDS/VAGAR	787	ILS/DME					12 SF	TRD 070712E 505201N	298	25/62.5	25/100		100	27			
E	MADRID/BARAJAS	6673	ILS/DME					32R MBB	TRD @493004N	142	25/62.5	25/100		100	27			
F	LYON/ST EXUPERY	1212	ILS/DME	17L LSS	TRD 110315E 492956N	355	25/62.5	25/100		100	29							
FIN	HELSINKI-VANTAA	5620	ILS/DME	15 HL	TRD 553142N 083436E	333	25/62.5	25/100		100	30							
G	BOSCOMBE DOWN	6048	ILS/DME	23 IBOD	TRD 553124N 083218E	50	25/62.5	25/100		100	27	MIL						
HOL	ROTTERDAM	28472	ILS/DME	6 ROS	TRD 620407N 071650W	237	25/62.5	23/100		100	27							
I	BOLZANO	7133	ILS/DME	1 IBZ	TRD 620400N 071700W	197	30/62.5	30/250		250	27							

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109.100	28X	I	MILANO/MALPENSA	3598	ILS/DME	35L	IMA	TRD 453852N 084305E	168	25/62.5	25/100		100		28																																													
								453702N 084342E																																																				
								453703N 084343E																																																				
								Alt=234,213																																																				
								TRD 432224N 770439E																																																				
								432059N 770139E																																																				
								432059N 770439E																																																				
								TRD 543659N 251625E																																																				
								543629N 251734E																																																				
								TRD 234400N 155530W																																																				
								234232N 155616W																																																				
								TRD 592009N 051338E																																																				
								592053N 051204E																																																				
								592100N 051209E																																																				
								TRD 592308N 104534E																																																				
592227N 104755E																																																												
TRD 624456N 071703E																																																												
624400N 071709E																																																												
624438N 071543E																																																												
TRD 530541N 175710E																																																												
530549N 175932E																																																												
TRD 513333N 215214E																																																												
513245N 215410E																																																												
513246N 215409E																																																												
TRD 384757N 090735W																																																												
384610N 090838W																																																												
TRD 443400N 260400E																																																												
444700N 234000E																																																												
TRD 471200N 273600E																																																												
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TRD 471200N 273600E																																																												
471006N 273752E																																																												
TRD 620254N 142629E																																																												
620255N 142438E																																																												
TRD 595327N 173449E																																																												
595416N 173602E																																																												
TRD 365708N 372734E																																																												
365640N 372929E																																																												
TRD 405900N 284800E																																																												
394958N 365441E																																																												
394801N 365357E																																																												
TRD 405923N 394824E																																																												
405957N 394645E																																																												
TRD 462435N 304052E																																																												
285724N 133556W																																																												
285619N 133637W																																																												
285619N 133638W																																																												
523500N 082000E																																																												
TRD 415434N 092421E																																																												
415600N 092413E																																																												
TRD 454347N 160259E																																																												
454504N 160441E																																																												
555800N 372500E																																																												
TRD 565627N 144359E																																																												
565600N 144400E																																																												
TRD 591419N 150230E																																																												
591238N 150150E																																																												
TRD 500100N 361501E																																																												
384700N 654600E																																																												
TRD 515239N 002105W																																																												
515218N 002248W																																																												
515223N 002206W																																																												
TRD 515217N 002312W																																																												
515232N 002127W																																																												
515223N 002206W																																																												
TRD 472700N 191600E																																																												
TRD 521756N 044652E																																																												
521847N 044757E																																																												
521848N 044755E																																																												
TRD 515105N 082949W																																																												
515006N 082921W																																																												
TRD 395045N 085312W																																																												
394920N 085311W																																																												
TRD 573550N 152006E																																																												
574005N 182107E																																																												
TRD 375159N 302302E																																																												
375103N 302130E																																																												
TRD 495919N 064301E																																																												
495808N 064106E																																																												
TRD 513130N 073751E																																																												
513107N 073634E																																																												
@485447N 092025E																																																												
@491519N 023053E																																																												
491522N 023102E																																																												
433843N 070845E																																																												
TRD 573233N 040228W																																																												
@395500N 251400E																																																												
109.150	28Y	G	LUTON	1757	ILS/DME	8	ILTN	TRD 515223N 002206W	254	25/62.5	25/100		100		27																																													
								TRD 515217N 002312W																																																				
								515232N 002127W																																																				
								515223N 002206W																																																				
								TRD 472700N 191600E																																																				
								TRD 521756N 044652E																																																				
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TRD 573233N 040228W																																																												
@395500N 251400E																																																												
109.200	29X	D	LUBURG/STUTTGART	4934	ILS	6	IDWE	513107N 073634E	241	25/62.5	60/500	60/500	500	26	39																																													
								@485447N 092025E																																																				
								@491519N 023053E																																																				
								491522N 023102E																																																				
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								TRD 573233N 040228W																																																				
								@395500N 251400E																																																				
								1120								VOR/TAC	CRL	CAGNES-SUR-MER	3342	VOR/DME	CGS		491522N 023102E	60/500	60/500	60/500	60/500	500	17	40																														
																							433843N 070845E																																					
																							TRD 573233N 040228W																																					
																							@395500N 251400E																																					
																							1683								VOR/DME	INS	INVERNESS/INVERNESS	1683	VOR/DME	INS		573233N 040228W	60/250	60/250	60/250	60/250	250	17	39															
																																						@395500N 251400E																						
																																						1946								VOR/DME	LMO	LIMNOS	1946	VOR/DME	LMO		395500N 251400E	100/500	50/200	50/200	500	17	38	DME DOC 50/200

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109.250	29Y		F	RENES-ST-JACQUES	4909	VOR/DME	REN	480409N 014430W		150/500	150/500		500	20	37		
			I	AOSTA	6120	VOR/DME	SCS	454445N 072019E		25/250	25/250		250	17	38		
109.300	30X		ALG	CONSTANTINE/M. BOUDJAF	22	ILS/DME	31 CT	TRD 361711N 063645E 361619N 063753E TRD 481357N 140953E 481357N 141206E	136	25/62.5	25/100		100			20	
			AUT	LINZ/LINZ	75	ILS/DME	27 OEL	TRD 402925N 000346E 402739N 000342E	87	25/62.5	25/100		100			27	
			AZE	BAKU/HEYDAR ALIYEV	72193	ILS/DME	35 IBA	TRD 421737N 244059E	179	25/62.5	25/100		100			29	
			BUL	GRAF IGNATIEV	4983	ILS/DME	8 IGY	TRD 421718N 244205E TRD 523322N 131611E	260	25/62.5	25/100		100			29	MIL
			D	BERLIN/TEGEL	298	ILS/DME	26L ITGW	523330N 131808E TRD 482046N 114905E	81	25/62.5	25/100		100			27	
				MUNCHEN	6781	ILS/DME	08R IMSE	482022N 114521E	263	25/62.5	25/100		100			29	
				DUESSELDORF	368	ILS/DME	23R IDNW	TRD @511656N 064442E 511748N TRD 553741N 124018E	53	25/62.5	25/100		100			30	
			DNK	KOBENHAVN/KASTRUP	744	ILS/DME	04R NE	553617N 123816E TRD 371120N 034530W	221	25/62.5	25/100		100			27	ELEV SITE 17FT
			E	GRANADA/GRANADA	6865	ILS/DME	9 GRD	371123N 034723W 371123N 034724W	270	25/62.5	25/100		100			29	
				PALMA DE MALLORCA	6684	ILS/DME	24L IPAL	TRD 393223N 024343E 393310N 024534E	59	25/62.5	25/100		100			27	
	SAN JAVIER	5964	ILS/DME	23L ISR	TRD 374655N 004925W 374847N 004816W	46	25/62.5	25/100		100			29	MIL			
	VILLANUBLA	6705	ILS/DME	23 IVD	TRD 414143N 045201W 414247N 045027W	46	25/62.5	25/100		100			27				
EST	TALLINN	6337	ILS/DME	26L ILK	TRD @592446N 244805E 592444N	83	25/62.5	25/100		101		14	20				
F	TOULOUSE/BLAGNAC	1400	ILS/DME	32L TBN	TRD 433854N 012029E 433719N 012217E	143	25/62.5	25/100		100			29				
	LE LUC/LE CANNET	6292	ILS/DME	9 LC	TRD 432305N 062325E 432308N 062253E	268	25/62.5	25/100		100			29				
	GRENOBLE/ST-GEOIRS	4789	ILS/DME	9 SG	TRD 452146N 052107E 452151N 051847E	270	25/62.5	25/250		250			29				
FIN	KRUUNUPYY	5618	ILS/DME	19 KK	TRD 634219N 230813E 634338N 230838E	11	25/62.5	25/100		100			27				
I	GENOVA/SESTRI	2157	ILS/DME	28 GSE	TRD 442500N 084922E 442432N 085112E	107	25/62.5	25/100		100			28				
	REGGIO CALABRIA	5761	ILS/DME	33 REG	TRD 380245N 153952E Alt=64	197	25/62.5	25/100		100			28				
MRC	TANGER/IBN-BATTOUTA	2476	ILS/DME	28 TAG	354300N 055700W TRD 315732N 042506W	125	25/62.5	25/100		100			20				
	ERRACHIDIA/M. ALI CHERIF	2455	ILS/DME	31 ERR	315624N 042324W	125	25/62.5	25/100		100			27				
NOR	ORLAND	2593	ILS/DME	15 OL	TRD 634104N 093712E 634233N 093525E TRD 694727N 205704E 694700N 205700E	334	25/62.5	25/100		100			27				
	SORKJOSEN	2631	ILS/DME	15 SR	TRD 694728N 205701E 405545N 083890W	334	25/62.5	25/100		100			27				
POR	OVAR	7011	ILS/DME	36 OV	405427N 083837W	176	25/62.5	25/100		100			27	MIL			
ROU	BAIA MARE	6951	ILS/DME	9 IBM	TRD 473925N 232847E TRD 454900N 21900E	270	25/62.5	25/100		100			37				
	TIMISOARA/GIARMATA	9008	ILS/DME	29 ITR	TRD 474000N 232600E 432010N 215108E	110	25/62.5	25/100		100			29				
SRB	NIS	41265	ILS/DME	29 YNI	TRD 432001N 215144E TRD 466000N 065355E 466056N 065532E	114	25/62.5	25/450		450			29				
SUI	PAYERNE	4827	ILS/DME	23 IPY	TRD 464959N 065356E TRD 483811N 174958E	49	25/62.5	25/100		100			27	MIL airport with future CIV use			
SVK	PIESTANY AEROPORT INTERNATIONAL	4817	ILS/DME	1 CN	TRD 483707N 174940E TRD 360432N 102736E	194	25/62.5	25/63		63			27				
TUN	ENFIDHA	6205	ILS/DME	9 NZI	TRD 360429N 102529E 371447N 074105E	270	25/62.5	40/100		100			29				
TUR	MILAS/BOORUM	9023	ILS/DME	10L IBDR	TRD 371520N 273910E	287	25/62.5	50/250		250			27				
UKR	MYKOLAIV	67847	ILS/DME	4 INI	TRD 470404N 315612E TRD 475231N 351903E	51	25/62.5	25/100		100			29				
	ZAPORIZHZHIA	69247	ILS/DME	02R IZA	Alt=117 TRD 523116N 310234E 523154N 310018E	202	25/62.5	25/100		100			29				
BLR	HOMIEL	6760	ILS	10 IGM	TRD 495745N 071639E 495611N 071459E	290	25/62.5			62							
D	HAHN	3563	ILS	3 IHAE	TRD 512519N 092212E 512516N 092419E	212	25/62.5			62							
	KASSEL-CALDEN	7191	ILS	27 IKSW	TRD 440151N 123534E	95	25/62.5			62							
I	RIMINI	2228	ILS	31 MIR	TRD 440100N 123715E Alt=7	126	25/62.5			62				MIL			
	TREVISIO/S. ANGELO	2272	ILS	7 TRE	TRD 453911N 121241E 453849N 121103E	247	25/62.5			62				MIL			
RUS	MINERALNYE VODY	3224	ILS	30	TRD 441500N 430000E TRD 630214N 174621E	247	25/62.5			62							
S	KRAMFORS	2878	ILS	17 FK	TRD 630200N 174600E	352	25/62.5			62							
TUR	ADANA/INCIRLIK	3083	ILS	5 IDAN	TRD 370045N 382638E 365939N 352459E	233	25/62.5			62							

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109.300			UKR	IVANO-FRANKIVSK SIMFEROPOL'	4495	ILS	28 IIF	TRD 485315N 243943E	104	25/62.5				62		
					4514	ILS	1 ISN	TRD 450500N 335900E	194	25/62.5				62		
109.350	30Y		BEL	LIEGE/LIEGE	141	ILS/DME	22L ILG	TRD 503734N 052534E	45	25/62.5	25/100		100	29		
					4621	ILS/DME	22R IBI	TRD 503743N 052533E	45	25/62.5	25/100			100	29	
					4622	ILS/DME	04L	TRD 503851N 052722E	225	25/62.5	25/100		100	29		
			CZE	PARDUBICE	4329	ILS/DME	27 PK	TRD 500051N 154300E	93	25/62.5	25/100		108	14	27	CIVIL/MILITARY
			D	NEUBURG	29269	ILS/DME	27 INEU	500045N 154507E TRD @484240N	90	25/62.5	25/100		100	29		MIL
				LUBECK	549	ILS/DME	7 ILUE	TRD 534830N 104406E	252	25/62.5	25/100		100	29		
			DNK	BORNHOLM/ROENNE	4962	ILS/DME	11 IAR	534823N 104307E TRD 550329N 144647E	294	25/62.5	25/100		100	27		RWY HDG 113.7 GEO
				VOJENS/SKRYDSTRUP	5416	ILS/DME	10L ISPA	550353N 144457E TRD 551300N 091740E	285	25/62.5	25/100		100	27		ELEV SITE 141 FT
					5559	ILS/DME	28R SRY	551332N 091414E TRD 473714N 073028E	105	25/62.5	25/100		100	29		
			F	BALE/MULHOUSE	4665	ILS/DME	33 BLU	473547N 073121E TRD 470249N 052636E	155	25/62.5	25/250		250	29		
				DOLE/TAVAUX	1136	ILS/DME	5 DO	470202N 052510E TRD 490139N 023431E	234	25/62.5	25/100		100	29		
				PARIS/CH.DE GAULLE	4465	ILS/DME	09L PNE	490134N 023144E TRD 503638N 023758E	265	25/62.5	23/100		100	29		
				MERVILLE	5078	ILS/DME	22 MER	503726N 023848E TRD 431921N 032210E	37	25/62.5	25/250		250	29		
				BEZIERS/VIAS	3628	ILS/DME	9 ZR	431921N 032210E TRD 454350N 001219E	274	25/62.5	23/100		100	29		
				ANGOULEME/BRIE- CHAMPNIERS	3632	ILS/DME	28 AM	454347N 001335E TRD 511924N 000138E	97	25/62.5	23/100		100	29		
			G	BIGGIN HILL	1558	ILS/DME	21 IBGH	512015N 000208E TRD 524953N 011807W	26	25/62.5	25/100		100	27		
				EAST MIDLANDS	1638	ILS/DME	9 IEMW	524955N 012031W TRD 524958N 011940W	268	25/62.5	25/100		100	27		
					1639	ILS/DME	27 IEME	524958N 011940W TRD 524950N 012123W	88	25/62.5	25/100		100	27		
			HOL	TWENTHE	5719	ILS/DME	23 TWO	521700N 065300E TRD 531803N 082621W	282	25/62.5	25/100		100	27	Planned	
			IRL	CASEMENT	5267	ILS/DME	10 IB	531811N 082754W TRD 691701N 160931E	282	25/62.5	25/250		250	27		MIL
					691700N 160900E											
			NOR	ANDOYA	6972	ILS/DME	14 AN	691701N 160933E TRD 700316N 245837E	330	25/62.5	25/100		100	27		
				BANAK	3356	ILS/DME	16 BK	700300N 245900E TRD 700420N 245837E	355	25/62.5	25/100		100	27		
				FORDE/BRINGELAND	2541	ILS/DME	25 FD	612300N 054500E TRD 612318N 054437E	74	25/62.5	25/100		100	26		
			S	ARVIDSJAUR	5458	ILS/DME	12 ARV	TRD 653453N 191932E	308	25/62.5	100/500		500	39		
				STOCKHOLM/ARLANDA	4735	ILS/DME	01R TSA	TRD 593904N 175735E	190	25/62.5	25/100		100	27		
			TUR	AFYON	27754	ILS/DME	31R IKFK	593745N 175715E TRD 384424N 303502E	134	25/62.5	25/100		100	27		
				ISTANBUL/SABIHA GOKCEN	42006	ILS/DME	24 ISGB	384302N 303700E TRD 405302N 291757E	60	25/62.5	25/100		100	27	DHMI	
			S	KARLSSTAD	4117	ILS	3 SOK	TRD 592726N 132057E	206	25/62.5			62			
109.400	31X		I	GUERNSEY	1667	VOR/DME	GUR	@492514N 023614W	80/500	80/500		500	20	39		Corrected DME power level to match actual EIRP
					6968	VOR/DME	PRU	430606N 123043E	50/250	50/250	250	17	38			
			ROU	BACAU	2774	VOR/DME	BCU	465100N 265000E	175/500	175/500		500	20	37		
			TUR	DIYARBAKIR	5005	VOR/DME	DYB	375224N 401230E	80/400	80/400		400	17	37		
				BALIKESIR/EDREMIT	4246	VOR/DME	EDR	393303N 270019E	30/250	30/250		250	15	27		
			F	MONTMEDY	1255	VOR	MMD	@492328N 050728E	100/500			500	17			
109.450	31Y		G	BELFAST	58126	VOR/DME	BFT	@543940N 061347W	160/500	160/500		500	23	39		Replacement for 3G1546 once operation
					6842	VOR/DME	MAT	402600N 163300E	25/100	25/100	100	17	29	Planned		
109.500	32X		ALG	GHARDAIA/NOUMERATE	29	ILS/DME	30 GH	TRD 322305N 047733E	122	25/62.5	25/100		100	29		
			AZE	NAKHICHEVAN	56825	ILS/DME	14L INT	TRD 391030N 452828E	318	25/62.5	25/100		100	14	24	
				BAKU/HEYDAR ALIYEV	95	ILS/DME	16 IBI	TRD 402784N 500235E	346	25/62.5	25/100		100	29		
			BUL	SOFIA/VRAJDEBNA	6395	ILS/DME	27 ISF	TRD 424153N 232332E	95	25/62.5	25/100		100	27		
			CZE	PRAHA/RUZYNNE	243	ILS/DME	30 PG	TRD 500636N 141428E	127	25/62.5	25/100		112	14	27	
			D	MUNCHEN	6780	ILS/DME	08L IMNE	TRD 482203N 114943E	263	25/62.5	25/100		100	29		

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109.500	32X	D	STUTT GART	6782	ILS/DME	7	ISTE	TRD 484111N 091452E	254	25/62.5	25/100		100	29			
				7130	ILS/DME	25L	IBSW	484111N 091236E 522000N 132700E									
			BERLIN-BRANDENBURG					TRD 553603N 123747E 553720N 123958E 553721N 123957E									
		DNK	KOBENHAVN/KASTRUP	745	ILS/DME	22L	OXS	TRD 370830N 033808W 370751N 033804W	41	25/62.5	25/100		100	27			
		E	GRANADA/ARMILLA	6866	ILS/DME	36	IGA	TRD 385157N 012121E 385235N 012306E	182	25/62.5	25/100		100	29			
			IBIZA/IBIZA	6663	ILS/DME	24	IBZ	TRD 423451N 054001W 423559N 053835W	62	25/62.5	25/100		100	27			
			LEON	6667	ILS/DME	23	ILE	TRD 414017N 010242W 413921N 010047W	45	25/62.5	25/100		100	29	AD 2 - LELN 5		
			ZARAGOZA/ZARAGOZA	6707	ILS/DME	30R	IZZA	TRD 413921N 010044W 363950N 042901W	120	25/62.5	25/100		100	29			
			MALAGA	6679	ILS/DME	13	GMM	TRD 364056N 043039W 411732N 020351E	312	25/62.5	25/100		100	29			
			BARCELONA	6643	ILS/DME	25R	BCA	TRD 411820N 020595E 402843N 032806W	66	25/62.5	25/100		100	29			
			TORREJON	5099	ILS/DME	22	ITJA	TRD 403024N 032607W 485828N 022735E	43	25/62.5	25/100		100	29			
		F	PARIS/LE BOURGET	4775	ILS/DME	7	LBG	TRD 485828N 022735E 430952N 000049W	248	25/62.5	25/100		100	29			
			TARBES/IOSSUN-LOURD	1392	ILS/DME	20	OS	TRD 431119N 000001E 423106N 084735E	20	25/62.5	25/100		100	29			
			CALVI/STE-CATHERIN	5714	ILS/DME	18	CLI	TRD 423106N 084735E 453739N 055252E	0	25/62.5	25/100		100	29			
			CHAMBERY/AIX-LES-B	1083	ILS/DME	18	CY	TRD 453836N 055240E 623956N 293529E	357	25/62.5	23/100		100	29			
		FIN	JOENSUU	5626	ILS/DME	28	JO	TRD 623956N 293529E 645522N 252259E	110	25/62.5	25/100		100	27			
			OULU	5256	ILS/DME	12	OU	TRD 645601N 252009E 603046N 221409E	301	25/62.5	25/100		100	27			
			TURKU	5606	ILS/DME	26	TU	TRD 603046N 221409E 603058N 221649E	85	25/62.5	25/100		100	27			
		G	LONDON/HEATHROW	1741	ILS/DME	27L	ILL	TRD 512753N 002520W 512749N 002541W 512750N 002731W	90	25/62.5	25/100		100	29			
				1742	ILS/DME	09R	IBB	TRD 512750N 002731W 532027N 021806W	270	25/62.5	25/100		100	29			
			MANCHESTER/MANCHESTER	6812	ILS/DME	23R	INN	TRD 532131N 021543W 532111N 021623W	51	25/62.5	25/100		100	29			
				6813	ILS/DME	05L	IMM	TRD 532150N 021514W 532054N 021700W	231	25/62.5	25/100		100	29			
		GRC	THESSALONIKI/MAKEDONIA	4903	ILS/DME	10	IMAK	TRD 403100N 225900E 472700N 191500E	284	25/62.5	25/100		100	27			
		HNG	BUDAPEST/FERIHEGY	6926	ILS/DME	31R	BPR	TRD 472700N 191500E 521800N 044414E	132	25/62.5	25/100		100	29			
		HOL	AMSTERDAM/SCHIPHOL	6345	ILS/DME	18C	ZWA	TRD 521943N 044417E 521943N 044415E	3	25/62.5	25/100		100	27			
		HRV	ZAGREB/FRANJO TUDJMAN	6580	ILS/DME	4	IZA	TRD 454406N 160312E 460200N 123600E	227	25/62.5	25/100		100	27			
		I	AVIANO	4725	ILS/DME	5	AVI	TRD 391543N 090231E 391436N 090340E	227	25/62.5	25/100		100	29	MIL USA		
			CAGLIARI/ELMAS	2125	ILS/DME	32	IEL	TRD 391437N 090341E Alt=1 381025N 130505E 381100N 130701E 381059N 130701E	137	25/62.5	25/100		100	32			
			PALERMO/PUNTA RAIS	6629	ILS/DME	25	RAI	TRD 381059N 130701E Alt=8, 18, 20	65	25/62.5	25/100		100	28			
		IRL	SHANNON/SHANNON	2309	ILS/DME	6	ISE	TRD 524245N 085408W 524147N 085623W	232	25/62.5	25/100		100	27			
		KAZ	AKTAU	63669	ILS/DME	12	IAU	TRD 435202N 510445E 43053N 510700E	123	25/62.5	25/100		100	24			
			KOKSHETAU	64266	ILS/DME	20	IKW	TRD 531841N 693435E 532017N 693623E	212	25/62.5	25/100		100	24			
			NUR-SULTAN	64265	ILS/DME	4	IMO	TRD 510225N 712937E 510046N 712712E	45	25/62.5	25/100		100	24			
		LTU	KAUNAS	5233	ILS/DME	8	IKM	TRD 545755N 240649E 545743N 240408E	265	25/62.5	25/100		100	33	RAFT Action 12/16 - modification DME EIRP		
								TRD 710135N 274927E 710200N 275000E									
		NOR	MEHAMN	2574	ILS/DME	17	MH	TRD 710135N 274927E 585231N 053852E	2	25/62.5	25/100		100	27			
			STAVANGER/SOLA	2633	ILS/DME	11	ZL	TRD 585248N 053639E 781450N 153035E 781500N 153100E	286	25/62.5	25/100		100	27			
			SVALBARD/LONGYEAR	2641	ILS/DME	28	LA	TRD 781451N 153037E 781451N 153037E	105	25/62.5	25/100		100	27			
		POL	OKSYWIE	5422	ILS/DME	31	IOW	TRD 543822N 183003E 543422N 183132E	136	25/62.5	25/100		100	29	modification EIRP - RAFT11WP18		
		POR	FARO/FARO	7001	ILS/DME	28	IF	TRD 370103N 075916W 370047N 075745W	100	25/62.5	25/100		100	27			
			LISBOA/LISBOA	7004	ILS/DME	21	ILB	TRD 384546N 090845W 384721N 090749W	23	25/62.5	25/100		100	27			
		ROU	BUCURESTI/BANEASA	5935	ILS/DME	7	IBS	TRD 443000N 260800E	250	25/62.5	25/100		100	37			

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109.500	32X		ROU	ORADEA	6232	ILS/DME	19 IOD	TRD 470100N 215400E TRD 602553N 152942E	10	25/62.5	25/100		100			37			
			S	BORLANGE	2831	ILS/DME	32 SD	602504N 153141E TRD 582454N 124233E 582609N 124233E	132	25/62.5	25/100		100			28	Add belonging DME 32X		
				SATENAS	4894	ILS/DME	19 IBC		TRD 643741N 210305E 643726N 210535E	5	25/62.5	25/100		100			27		
				SKELLEFTEA	2926	ILS/DME	28 NS		TRD 643722N 210609E 583516N 161339E 583505N 161549E	106	25/62.5	25/95		95			28	DME will be in operation summer 2019.	
				NORRKOPING/KUNGSAN	2908	ILS/DME	27 SP		TRD 631116N 143155E	91	25/62.5	25/100		100			28		
				OSTERSUND	2916	ILS/DME	12 PC		TRD 631154N 142914E 484052N 211451E 483908N 211409E	295	25/62.5	25/100		100			27		
				SVK	KOSICE	3048	ILS/DME	1 KE		TRD 483908N 211408E 336233N 104746E	193	25/62.5	25/100		100			27	
				TUN	DJERBA/ZARZIS	3067	ILS/DME	9 JAZ		TRD 335234N 104549E 484750N 235638E 484854N 235653E	269	25/62.5	25/100		100			29	
				UKR	L'VIV	7265	ILS/DME	13 ILO		TRD 282755N 135148W 282639N 135147W	316	25/62.5	25/100		100			29	
				CNR	FUERTEVENTURA	9026	ILS/DME	1 IFV		TRD 511145N 025056E 511202N 025135E	182	25/62.5	25/100		100			29	
				BEL	OOSTENDE/OOSTENDE	148	ILS	26 IOS		TRD 533451N 240318E	76	25/62.5			62				
				BLR	HRODNA	6758	ILS	17 IGP		TRD 533637N 240321E	358	25/62.5			62				
				D	HANNOVER/HANNOVER	470	ILS	27L IHSW		TRD 522718N 094023E 522711N 094224E	92	25/62.5			62				
					KIEL/HOLTENAU	507	ILS	8 IKHE		TRD 542240N 100829E 542243N 100800E	262	25/62.5			62				
						508	ILS	26 IKHW		TRD 542243N 100900E 614160N 271309E	82	25/62.5			62				
				FIN	MIKKELI	1486	ILS	11 MI		TRD 614114N 271138E 405245N 141634E 405328N 141757E	293	25/62.5			62				
				I	NAPOLI/CAPODICHINO	6630	ILS	24 INPL		TRD 481451N 258921E 481558N 258838E	56	25/62.5			62				
				UKR	CHERNIVTSI	4488	ILS	15 ICN		TRD 482126N 350738E	333	25/62.5			62				
					DNIPROPETROVSK	4490	ILS	8 IDP		TRD 482121N 350508E 415300N 603700E	270	25/62.5			62				
				UZB	URGENCH	5587	ILS	31 INU		TRD 394100N 670000E		25/62.5			62				
		SAMARKAND	5586	ILS	9 IMZ		TRD 480728N 163141E 480632N 163418E 480632N 163417E		25/62.5	25/180		180			27				
109.550	32Y		AUT	WIEN/SCHWECHAT	5325	ILS/DME	29 OEX	TRD 505448N 043023E 505408N 042748E	116	25/62.5	25/100		100			29			
			BEL	BRUXELLES/NATIONAL	6422	ILS/DME	07L IBRO	TRD 533724N 100008E 533905N 095833E	250	25/62.5	25/100		100			29	Planned		
			D	HAMBURG/HAMBURG	51725	ILS/DME	15 IHHS	TRD @492947N 110607E 493006N	333	25/62.5	25/100		100			29			
				NURNBERG/NURNBERG	4343	ILS/DME	10 INUE		TRD 484648N 040916E 484620N 041214E	279	25/62.5	25/62		62			29		
			F	CHALONS/VATRY	4076	ILS/DME	28 CVL		TRD 434500N 042500E 434557N 042503E	101	25/62.5	25/100		100			29		
				NIMES/GARONS	4541	ILS/DME	18 NG		TRD 483140N 073637E	357	25/62.5	23/100		100			29		
				STRASBOURG/ENTZHEIN	4091	ILS/DME	23 STZ		TRD 483234N 073818E 481047N 011246W 461041N 011128W	49	25/62.5	23/100		100			29		
				LA ROCHELLE/LALEU	1170	ILS/DME	27 RL		TRD 511400N 005700W	92	25/62.5	25/100		100			29		
			G	ODIHAM	6070	ILS/DME	27 IODH		Alt=121	91	25/62.5	25/100		100			27	MIL	
			HOL	LELYSTAD/LELYSTAD	4763	ILS/DME	23 LSD		TRD 522700N 053000E 404039N 175524E 403930N 175641E		25/62.5	25/100		100			29	Planned	
				I	BRINDISI/CASALE	33566	ILS/DME	31 IBRN		TRD 441204N 120313E 441126N 120443E 441125N 120443E	134	25/62.5	60/150		150			37	
					FORLI	6325	ILS/DME	30 IFRL		TRD 452733N 091632E 452613N 091634E 452613N 091633E	115	25/62.5	25/100		100			27	Planned
					MILANO/LINATE	6324	ILS/DME	36 ILNT		TRD 414000N 122600E	175	25/62.5	25/100		100			28	
					PRATICA DI MARE	5065	ILS/DME	31 PRA		TRD 683448N 150238E 683500N 150300E 683448N 150237E		25/62.5	25/100		100			28	MIL
				NOR	STOKMARKNES/SKAGEN	7149	ILS/DME	27 SK		TRD 610900N 125103E 611020N 124936E	91	25/62.5	25/100		100			29	
				S	SALEN	59645	ILS/DME	15 SAE		TRD 400540N 323443E	327	25/62.5	25/100		100	23		28	
				TUR	ANKARA/AKINCI	7118	ILS/DME	3 IZIR		TRD 400408N 323320E	213	25/62.5	25/100		100			27	
					ISTANBUL/ISTANBUL HAVALIMANI	67267	ILS/DME	35R ILCE		TRD 411543N 284339E	180	25/62.5	25/100		100			27	DHMI
				E	SALAMANCA	27925	ILS	3 IMN		TRD 405700N 053100W 593952N 175903E	210	25/62.5			62			27	MIL TTLS
				S	STOCKHOLM/MARLANDA	2933	ILS	8 WSA		TRD 594000N 175900E	256	25/62.5			62				
109.600	33X		GRC	ATHINA/EL VENIZELOS	4584	VOR/DME	SAT	375500N 235500E		40/250	40/250		250	17	29	TVOR			

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109.600	33X		GRC	LESVOS/MITLINI	1945	VOR/DME	MLN	390400N 263600E		40/250	40/250		250	17	28	TVOR			
				KOZANI	1940	VOR/DME	KOZ	401700N 215000E		40/250	40/250		250	17	28	TVOR			
			TUR	CAYCUMA	4707	VOR/DME	CAY	413050N 320240E		100/400	100/400		400	17	37				
109.650	33Y	F	D	WIPPER	695	VOR	WYP	@510254N 071648E		40/250			250	22					
				BEAUVAIS/TILLE	1025	VOR/DME	BOV	492600N 020900E		100/400	145/400		400	17	37				
				NICE/COTE D'AZUR	4785	VOR/DME	AZR	433935N 071328E		100/250	100/250		250	20	37				
109.700	34X		ALG	ANNABA/RABAH BITAT	11	ILS/DME	19 AN	364859N 074831E		7	25/62.5	20/100		100		29			
			AUT	INNSBRUCK	68	ILS/DME	8 OEJ	TRD 471853N 113608E		248	25/62.5	25/150		150		27	TRD also 68		
			D	BERLIN-BRANDENBURG	7129	ILS/DME	07R IBSE	522100N 133100E			25/62.5	25/100		100		30			
				WUNSTORF	6905	ILS/DME	26 IWUW	TRD 522721N 092437E			25/62.5	25/100		100		29	MIL		
			E	ALBACETE	6709	ILS/DME	27 IAE	TRD 385652N 015104W			25/62.5	25/100		100		29			
				PAMPLONA/NOAIN	6688	ILS/DME	15 IPN	TRD 424640N 013901W			25/62.5	25/100		100		27			
				MORON DE LA FRONTE	6682	ILS/DME	20 IMRF	TRD 370925N 053727W			25/62.5	25/100		100		29	MIL		
			ISR	OVDA	30110	ILS/DME	21 VA	TRD 295635N 345557E			25/62.5	20/100		100		24			
				TEL-AVIV/BEN-GURION AIRPORT	28104	ILS/DME	21 BN	TRD 319594N 345349E			25/62.5	25/100		100		29			
				TARAZ	63859	ILS/DME	13 IMB	TRD 425024N 711914E			25/62.5	25/100		100		24			
				UST-KAMENOGORSK	64505	ILS/DME	30 ISI	TRD 500249N 822628E			25/62.5	25/100		100		29			
				URALSK	63865	ILS/DME	22 IUR	TRD 510926N 513111E			25/62.5	25/100		100		30			
				MALTA/LUQA	2439	ILS/DME	13 LQ	TRD 355001N 143026E			25/62.5	25/40		62		29			
			MRC	FES/SAISS	2457	ILS/DME	27 LFA	TRD 335538N 045954W			25/62.5	25/100		100		27			
				MARRAKECH/MENARA	2464	ILS/DME	10 MAR	TRD 313619N 080101W			25/62.5	25/100		100		20			
			POR	MONTIJO	5313	ILS/DME	26 MT	TRD 384215N 090226W			25/62.5	25/100		100		27	MIL		
			S			KRAMFORS	5320	ILS/DME	35 NK	TRD 630232N 174624E		172	25/62.5	25/100		100		27	
						STOCKHOLM/BROMMA	2940	ILS/DME	30 SBA	TRD 592143N 175513E			25/62.5	25/100		100		29	
VAXJOKRONBERG	2967	ILS/DME				19 MX	TRD 565459N 144321E			25/62.5	25/100		100		27				
CNR	TENERIFE SUR	9044	ILS/DME	8 ITS	TRD 280303N 163316W			25/62.5	25/100		100		29						
BLR	MINSK-2	6739	ILS	31 IGH	TRD 535405N 280010E			138	25/62.5		62								
CYP	AKROTIRI	210	ILS	28 IAK	TRD 343543N 325920E			100	25/62.5		62								
D	LAHR	4197	ILS	21 ILRW	TRD 482120N 074900E			28	25/62.5		62			AD 2 EDTL 1-6					
	NORVENICH	27230	ILS	25 IWNN	TRD 504932N 063913E			67	25/62.5		62			MIL					
FIN	KAUHAVA	1463	ILS	17 KA	TRD 630645N 230312E				25/62.5		62								
I	FORLI	2153	ILS	12 FOR	TRD 441120N 120513E			295	25/62.5		62								
RUS	PISA/SAN GIUSTO	2218	ILS	04R IPI	TRD 434150N 102430E			215	25/62.5		62			MIL					
	MOSKVA/NUKOVY	3237	ILS	20	TRD 434033N 102317E				25/62.5		62								
	SAMARAKURUMOCH	3249	ILS	23	TRD 565607N 144358E				25/62.5		62								
S	MORA/SILJAN	2904	ILS	16 NKM	TRD 605749N 143035E			341	25/62.5		62								
UKR	KYIV/BORISPOL'	3197	ILS	36R INO	TRD 502623N 305425E			183	25/62.5		62								
UZB	FERGANA	5597	ILS	IZU	TRD 402000N 714400E				25/62.5		62								
109.750	34Y		D	BRAUNSCHWEIG	70747	ILS/DME	17 TST	TRD 521900N 103300E		345	25/62.5	30/50		62	17	20	TEST		
				DRESDEN	28505	ILS/DME	22 IDRW	TRD 510721N 134507E			25/62.5	25/100		100		29			
				FRANKFURT/MAIN	6589	ILS/DME	25 IFWR	TRD 500210N 082935E			25/62.5	25/100		100		29			
				UNTERMEITINGEN	61246	ILS/DME	29 TST	TRD 500245N 083143E			109	25/62.5	25/20	62	14	20	MIL, TRAINING + MAINTENANCE, GROUND TEST ONLY		
			DNK	BILLUND	40665	ILS/DME	9 BIL	TRD 554429N 091109E			267	25/62.5	25/100		100		20		
			G	CULDROSE	6611	ILS/DME	30 ICUL	TRD 554429N 090821E			112	25/62.5	25/100		100		27	MIL	
				EINDHOVEN	5294	ILS/DME	3 EHZ	TRD 512745N 052316E			216	25/62.5	25/100		100		27		
				LEEWARDEN	5295	ILS/DME	21 EHO	TRD 512615N 052137E			36	25/62.5	25/100		100		27	Planned opposite RWY	
		5291	ILS/DME	9 WOL	TRD 512722N 052302E			274	25/62.5	25/100		100		27					

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109.750	34Y	HOL	LEEWARDEN	5282	ILS/DME	27	LOB	TRD 531343N 054417E 531339N 054555E	94	25/62.5	25/100		100			27		
				6121	ILS/DME	27	IAOS	TRD 454423N 072230E Alt=546 TRD 443232N 111518E 443201N 111752E 443202N 111753E	88	25/62.5	25/100		100		28			
			BOLOGNA/BOR.PANIGALE	6617	ILS/DME	30	IBBP	Alt=35,36 TRD 414643N 121430E	115	25/62.5	25/100		100		28			
				7312	ILS/DME	16R	IFRR	414844N 121334E	341	25/62.5	25/100		100		28 PLANNED 2013			
			ROMA/FIUMICINO	6140	ILS/DME	7	ML	TRD 624456N 071718E	251	25/62.5	25/100		100		27			
				NOR	MOLDE	624434N 071520E												
			472727N 083155E															
			SUI	ZURICH	5850	ILS/DME	28	IZW	472727N 083400E	96	25/62.5	25/100		100		27		
					TUR	ANTALYA	6613	ILS/DME	18L	ILRA	TRD 365241N 304825E 365200N 304800E	6	25/62.5	40/100		100		37
			413054N 320511E															
109.800	35X	ROU	ZONGULDAK/CAYCUMA	42045	ILS/DME	36	IZCA	413000N 320510E	186	25/62.5	25/100		100	27	27			
			DEVA	4375	VOR/DME		DVA	455000N 225800E	100/500	100/500	500	17	37			DHMI		
109.850	35Y	GRC	AMASYA/MERZIFON	4319	VOR/DME		MNI	404917N 353047E	100/400	100/400	400	17	37					
			MONCHENGLADBACH	4186	VOR		MHV	511414N 062925E	40/150	40/150	150	20						
109.875	36X	ALG	ELFEFSIS	5258	VOR/DME		LEF	380400N 233300E 424537N 110439E	40/250	40/250	250	17	27			MIL		
			TUR	ISTANBUL/YENI HAVALIMANI	6487	VOR/TAC		GRO	424539N 110438E	40/250	40/250	250	17	39	MIL			
39414	VOR/DME				UHN	411813N 284525E	60/500	60/500	500	23	37	DHMI						
109.900	36X	AUT	WIEN/SCHWECHAT	37925	GBAS		GVIE	480631N 163418E TRD 241630N 092848E	23/100		100	19						
			DJANET/TISKA	72188	ILS/DME	13	DJA	241716N 092712E	305	25/62.5	25/100		100		29			
109.900	36X	AUT	ORAN/AHMED BENBELLA	40	ILS/DME	25L	OR	TRD 353728N 003825W 353728N 003825W	67	25/62.5	25/100		100		29			
			SALZBURG/SALZBURG	78	ILS/DME	16	OES	TRD 474645N 130047E 474803N 130004E	337	25/62.5	25/100		100		27			
109.900	36X	AZE	LENKORAN	6234	ILS/DME	33	ILM	TRD 384624N 484746E 384452N 484845E	151	25/62.5	25/100		100		29			
			BEL	BRUXELLES/NATIONAL	114	ILS/DME	1	IBX	TRD 505456N 043011E 505324N 042940E	194	25/62.5	25/100		100		35		
109.900	36X	BUL	PLOVDIV	5793	ILS/DME	30	IPD	TRD 420435N 245009E 420350N 245139E	127	25/62.5	25/100		100		27	DME PLANNED		
			VARNA/AKSAKOVO	6223	ILS/DME	9	IWN	TRD 431346N 275036E 431403N 274847E	277	25/62.5	25/100		100		27			
109.900	36X	D	STUTT GART	7127	ILS/DME	25	ISTW	TRD 484101N 091118E 484132N 091427E	74	25/62.5	25/100		100		29			
			BERLIN-BRANDENBURG	7132	ILS/DME	25R	IBNW	TRD 522156N 132838E 522239N 133116E 522239N 133115E	69	25/62.5	25/100		100		30			
109.900	36X	DNK	DUESSELDORF	371	ILS/DME	23L	IDSW	TRD 064454E 511737N 064637E 511737N	53	25/62.5	25/100		101		29	Directional DME TRD:52		
			AALBORG/AALBORG	710	ILS/DME	08L	AE	TRD 570549N 095301E 570542N 095013E	263	25/62.5	25/100		100		27			
109.900	36X	E	KOBENHAVN/KAstrup	5551	ILS/DME	12	KA	TRD 553635N 124042E 553716N 123930E	303	25/62.5	25/100		100		27			
			ALMERIA/ALMERIA	6769	ILS/DME	25	IAM	TRD 365021N 022324W 365047N 022124W	73	25/62.5	25/100		100		29			
109.900	36X	GERONA/COSTA BRAVA	6658	ILS/DME	20	IGN	TRD 415332N 024526E 415442N 024548E	16	25/62.5	25/100		100		27				
			MADRID/BARAJAS	6671	ILS/DME	32L	MAA	TRD 402912N 033440W 402757N 033317W	142	25/62.5	25/100		100		29			
109.900	36X	PALMA DE MALLORCA	6733	ILS/DME	24R	PAA	TRD 393245N 024228E 393341N 024419E	59	25/62.5	25/100		100		29				
			MALAGA	6680	ILS/DME	31	GAA	TRD 364109N 043052W 363959N 042921W	132	25/62.5	25/100		100		29			
109.900	36X	LA CORUNA/LA CORUN	6666	ILS/DME	21	LCO	TRD 431726N 082312W 431625N 082228W	31	25/62.5	25/100		100		29				
			EST	KJRESSARE	6605	ILS/DME	17	IWA	TRD @581319N 223035E 581418N	353	25/62.5	25/100		14	20			
109.900	36X	F	NANTES/ATLANTIQUE	1271	ILS/DME	3	NT	TRD 470956N 013604W 470939N 013710W	207	25/62.5	25/100		100		29			
			BREST/BRETAGNE	3366	ILS/DME	25L	BG	TRD 482832N 042636W 482706N 042424W	71	25/62.5	23/100		100		29			
109.900	36X	FIN	IVALO	5406	ILS/DME	22	IV	TRD 683552N 272240E 683649N 272511E	47	25/62.5	25/100		100		27			
			KAJAANI	5189	ILS/DME	7	KI	TRD 641717N 274332E 641706N 274021E	260	25/62.5	25/100		100		27			
109.900	36X	LAPPEENRANTA	5981	ILS/DME	6	LP	TRD 610300N 281013E 610232N 280741E	247	25/62.5	25/100		100		27				
			G	ABERDEEN/DYCE	6238	ILS/DME	34	IABD	TRD 571249N 021223W 571152N 021133W	158	25/62.5	25/100		100		29		
109.900	36X	BELFAST/ALDERGROVE	6559	ILS/DME	16	IAX	TRD 571229N 021159W 571204N 021202W	338	25/62.5	25/100		100		29				
			6280	ILS/DME	25	IAG	TRD 543903N 061427W 543938N 061201W	65	25/62.5	25/100		100		29				

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109.900	36X		G	EXETER	1646	ILS/DME	26 IXR	TRD 504354N 032548W 504413N 032418W 504407N 032452W	76	25/62.5	25/100		100			27
					3379	ILS/DME	8 IET	TRD 504413N 032349W 504353N 032322W 504407N 032452W	256	25/62.5	25/100		100			27
				WARTON	1861	ILS/DME	25 IWQ	TRD 534426N 025419W 534449N 025214W 534440N 025254W	71	25/62.5	25/100		100			27
			HOL	GRONINGEN/EELDE	5857	ILS/DME	23 GRO	TRD 530635N 063329E 530720N 063515E	52	25/62.5	25/100		100			27
			I	MILANO/MALPENSA	5758	ILS/DME	35 MLP	TRD 453911N 084338E 453707N 084419E 453708N 084420E Alt=235,211	168	25/62.5	25/100		100			28
				OLBIA/COSTA SMERALDA	4664	ILS/DME	6 ISM	TRD 405421N 093153E 405346N 093036E 405346N 093035E TRD 372805N 150455E 372753N 150330E	234	25/62.5	25/100		100			28
				CATANIA/FONTANAROS	2135	ILS/DME	8 CTN	TRD 372752N 150330E	262	25/62.5	25/100		100			28
			IRL	CORK/CORK	2292	ILS/DME	16 ICS	TRD 514950N 082908W 514950N 082948W	340	25/62.5	25/100		100			27
			KAZ	KARAGANDA	63750	ILS/DME	5 IRG	TRD 494103N 732159E 493949N 731909E	58	25/62.5	25/100		100			24
				ATYRAU	63722	ILS/DME	14 ITY	TRD 470620N 515003E 470751N 514839E	150	25/62.5	25/100		100			24
			LTU	KAUNAS	6730	ILS/DME	26 ISE	TRD 545746N 240322E 545749N 240600E	85	25/62.5	25/100		100			27
			LUX	LUXEMBOURG/LUXEMBO	2428	ILS/DME	6 ILE	TRD 493819N 061438E 493704N 061128E	240	25/62.5	25/100		100			29
			MDA	CHISINAU	5787	ILS/DME	26 ILD	TRD 465538N 285416E 465538N 285704E	88	25/62.5	25/100		100			27
			MRC	CASABLANCA/MOHAMMED V	4437	ILS/DME	35R INR	TRD 332327N 073546W 332116N 073506W	164	25/62.5	25/50		62			27
			NOR	BERGEN/FLESLAND	27183	ILS/DME	17 BR	TRD 601644N 051232E 601802N 051249E	350	25/62.5	25/100		100			27
				TROMSO/LANGNES	2654	ILS/DME	19 TR	TRD 694015N 185438E 694118N 185512E TRD 632728N 105303E 632731N 105603E	13	25/62.5	25/100		100			27
				TRONDHEIM/VAERNES	2661	ILS/DME	27 TD	TRD 632731N 105601E TRD 502834N 190320E	90	25/62.5	23/100		100			27
			POL	KATOWICE	6218	ILS/DME	27 IKTO	TRD 502837N 190543E TRD 520938N 205907E	90	25/62.5	25/250		250			29
				WARSAWA/OKECIE	3547	ILS/DME	11 WAS	TRD 521016N 205706E TRD 411348N 094036W	294	25/62.5	25/100		100			29
			POR	PORTO/PORTO	2757	ILS/DME	17 PR	TRD 411529N 084057W	349	25/62.5	25/100		100			27
			ROU	TIRGU MURES	9010	ILS/DME	7 ITM	TRD 462700N 242500E TRD 653324N 220535E	250	25/62.5	25/100		100			29
			S	LULEA/KALLAX	4891	ILS/DME	32 SPA	TRD 653207N 220841E TRD 594006N 175528E	137	25/62.5	25/100		100			27
				STOCKHOLM/ARLANDA	2934	ILS/DME	01L SSA	TRD 593826N 175442E TRD 634854N 201811E	190	25/62.5	25/100		100			29
				UMEA/UMEA	2960	ILS/DME	14 NU	TRD 634744N 201818E TRD 643451N 164855E 643446N 165019E	318	25/62.5	25/100		100			27
				VILHELMINA	2971	ILS/DME	28 INV	TRD 643451N 164955E TRD 354544N 104619E	103	25/62.5	25/100		100			27
			TUN	MONASTIR/H.BOURGUIBA	3070	ILS/DME	7 MIS	TRD 354521N 104429E TRD 382511N 380444E	254	25/62.5	25/100		100			29
			TUR	MALATYA	7087	ILS/DME	21L IMLY	TRD 382648N 380553E	32	25/62.5	25/100		100			27
			CNR	GRAN CANARIA	9029	ILS/DME	03L ILP	TRD 275649N 152248W 275519N 152233W	201	25/62.5	25/100		100			29
			D	ERFURT	385	ILS	28 IERW	TRD 505854N 105608E 505849N 105812E	97	25/62.5			62			
				HAMBURG/HAMBURG	453	ILS	33 IHHN	TRD 533926N 095822E 534000N 095900E	153	25/62.5			62			
			F	ORANGE/CARITAT	1289	ILS	14 ORG	TRD 440744N 045247E 440843N 045142E	324	25/62.5			62			
				COGNAC/CHAT.BERNAR	1105	ILS	23 CGC	TRD 453848N 001938W 453931N 001819W	50	25/62.5			62			
			FIN	HALLI	1437	ILS	26 HA	TRD 615118N 244523E 615120N 244820E	86	25/62.5			62			
			G	LAKENHEATH	1704	ILS	24 ILKH	TRD 522400N 003300E Alt=18	56	25/62.5			62			MIL
					6272	ILS	6 ILAK	TRD 522400N 003300E Alt=17	236	25/62.5			62			MIL
			MNE	PODGORICA/GOLUBOVCI	3291	ILS	36 YUI	TRD 422223N 191512E 422101N 191509E	184	25/62.5			62			
			NOR	SANDNESSJOEN	2620	ILS	20 ST	TRD 656739N 122830E 656800N 122900E	25	25/62.5			62			
			RUS	TVER/MIGALOVO	3265	ILS	7	TRD 564900N 354500E TRD 574443N 140340E		25/62.5			62			ALSO RWY 25
			S	JONKOPING/JONKOPIN	2864	ILS	19 SJ	TRD 574553N 140415E TRD 444942N 201714E	18	25/62.5			62			
			SRB	BEOGRAD/SURCIN	3275	ILS	30 YBE	TRD 444852N 201919E	122	25/62.5			62			

COM3- List of national and international assignments in Frequency order

VHF Channel	DME Channel	MLS Channel	CTY	Location	SAFIRE Ref	Service	Rwy Designat Id or	Co-ordinates	TRD	VHFDOC	DMEDEC	MLSDOC	MaxFL	VHF EIRP	DME EIRP	Remarks	
109.950	36Y		BEL	KLEINE BROGEL	4024	ILS/DME	23R IBBL	TRD 510933N 052705E	50	25/62.5	25/100		100			29	
					57805	ILS/DME	5 IKNB	TRD 511022N 052851E	230	25/62.5	25/100		100		29		
			CZE	PRAHA/RUZYNE	5481	ILS/DME	12 PA	TRD 500520N 141705E 500620N 141453E TRD 522718N 094018E 522711N 094224E	307	25/62.5	25/100		112	14	27		
			D	HANNOVER/HANNOVER	55145	ILS/DME	27L IHSW	TRD @533242N 073838E 533266N	93	25/62.5	25/100		100			29	WILL REPLACE 3D470 AFTER SUCCESSFUL IMPLEMENTATION
				WITTMUND	27743	ILS/DME	26 INTW	TRD 492734N 020604E	78	25/62.5	25/100		100			29	
			F	BEAUVAIS/TILLE	1024	ILS/DME	30 BI	TRD 492648N 020741E	124	25/62.5	23/100		100			29	
				BRIVE/SOULLAC	6020	ILS/DME	29 BVC	TRD 450242N 012807E 450211N 012933E	115	25/62.5	25/250		250			29	
				NICE/COTE D'AZUR	4757	ILS/DME	04L NI	TRD 434010N 071342E 433917N 071222E	225	25/62.5	25/250		250			29	
			G	WATTISHAM	6050	ILS/DME	23 IWAT	TRD 520800N 005700E Alt=83	47	25/62.5	25/100		100			27	MIL
				GLOUCESTER	7269	ILS/DME	27 IGOS	TRD 515336N 021047W 515342N 020952W 515332N 021005W	84	25/62.5	25/100		100			29	
			HNG	KECSKEMET	5465	ILS/DME	30 KEE	TRD 465500N 194500E TRD 453107N 122209E 452943N 122230E	123	25/62.5	25/100		100			29	MIL
			I	VENEZIA/TESSERA	5509	ILS/DME	4 VTS	TRD 452942N 122031E	220	25/62.5	25/100		100			28	
				DECIMOMANNU	73826	ILS/DME	36R IDEC	TRD 392209N 085809E TRD 465117N 065602E 465010N 065417E	347	25/62.5	25/64		64			27	MIL
			SUI	PAYERNE	5998	ILS/DME	5 IPN	TRD 465118N 065600E	229	25/62.5	25/100		100			27	MIL airport with future CIV use
			D	KARLSRUHE/BADEN	5052	ILS	3 IKBE	TRD 484734N 080539E 484622N 080421E	212	25/62.5			62				
			I	GIOIA DEL COLLE	30525	ILS	32L IGDJ	TRD 404523N 165627E	140	25/62.5			62				MIL
110.000	37X		GRC	MIKONOS	1951	VOR/DME	MKN	TRD 372600N 252100E	40/200		40/200		200	17	28	TVOR	
					5360	VOR/DME	AKT	TRD 385600N 204600E	40/250		40/250		250	15	30	TVOR	
			TUR	ISTANBUL/YENI HAVALIMANI	39412	VOR/DME	UHL	TRD 411844N 284227E	60/500		60/500		500	23	37		DHMI DVOR
			UKR	ZAPORIZHZHIA	71325	VOR/DME	ZPR	TRD 475302N 351932E	100/500		100/500		500	17	37		
			D	METRO	4177	VOR	MTR	TRD 501635N 085055E	60/250				250	25			
110.050	37Y		POL	KRAKOW/BALICE	57406	GBAS	EPKK	TRD 500434N 194704E	23/100				100	19			planned 2020
					4025	VOR/DME	COA	TRD 512053N 032119E	60/500		60/500		500	17	37		
					7175	VOR/DME	HRE	TRD 430600N 060900E	50/250		50/250		250	20	37		
			F	HYERES	5763	VOR/DME	ZUE	TRD 473532N 084904E	80/500		80/500		500	23	39		MIL
110.100	38X		ALG	TAMANRASSET/AGUENAR	72189	ILS/DME	8 TA	TRD 224842N 052720E 224831N 052534E	262	25/62.5	25/100		100			29	
			AUT	KLAGENFURT/KLAGENFURT	72	ILS/DME	29 OEK	TRD 463819N 142100E	106	25/62.5	25/100		100			27	
			AZE	YEVLAKH	28005	ILS/DME	30 IEV	TRD 403837N 470729E 403753N 470849E	130	25/62.5	26/131		131			27	
			BIH	TUZLA/DUBRAVE	6545	ILS/DME	9 TLA	TRD 442726N 184435E 442731N 184245E	276	25/62.5	25/150		150			29	
			BLR	MINSK-2	51526	ILS/DME	31R IMN	TRD @535441N 280126E 535295N 280407E Alt=85.206	139	25/62.5	25/100		100	8	29		
			D	BERLIN/TEGEL	300	ILS/DME	26R ITLW	TRD 523326N 131542E 523345N 131818E	81	25/62.5	25/100		100			27	
				GEILENKIRCHEN	6201	ILS/DME	27 IGEW	TRD 505740N 060100E 505742N 060324E	91	25/62.5	25/100		100			34	MIL
				MUNSTER/OSNABRUCK	6855	ILS/DME	25 IMOW	TRD 520750N 073954E 520815N 074131E	71	25/62.5	25/100		100			29	
				ALLGAU	5894	ILS/DME	24 IAMW	TRD 475931N 010503E	59	25/62.5	25/100		100			35	
			DNK	STAUNING/STAUNING	72285	ILS/DME	27 SVJ	TRD 555900N 082000E	272	25/62.5	25/100		100			26	
			E	AVILES/ASTURIAS	6711	ILS/DME	29 AVS	TRD 433401N 060258W 433344N 060129W	108	25/62.5	25/100		100			27	
				SALAMANCA	6693	ILS/DME	21 IALR	TRD 405623N 053038W 405737N 052953W	28	25/62.5	60/60		100	12	20		MIL MATAÇAN
				SEVILLA/SEVILLA	6699	ILS/DME	27 ISV	TRD 372504N 055456W 372501N 055243W	90	25/62.5	25/100		100			29	
				VALENCIA	6700	ILS/DME	30 IVC	TRD 392954N 030320W 392906N 002824W	116	25/62.5	25/100		100			27	
				REUS	890	ILS/DME	25 IRS	TRD 410834N 010905E 410900N 011049E	69	25/62.5	25/100		100			27	
			F	PARIS/CH.DE GAULLE	3538	ILS/DME	09R CGE	TRD 490126N 023433E 490119N 023103E	265	25/62.5	23/100		100			29	
				PAU/PYRENEES	6127	ILS/DME	31 PYR	TRD 432321N 002610W	126	25/62.5	23/100		100			29	
				RENNES/ST-JACQUES	1338	ILS/DME	28 RS	TRD 480426N 014454W 480418N 014319W	101	25/62.5	23/100		100			29	
				LIMOGES/BELLEGARDE	3578	ILS/DME	21 LG	TRD 455103N 011016E 455210N 011112E	33	25/62.5	23/100		100			29	
			FIN	TAMPERE-PIRKKALA	39869	ILS/DME	24 TP	TRD 612424N 233419E 612502N 233723E	64	25/62.5	100/450		450	20	39		

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110.100	38X	G	BIRMINGHAM/BIRMINGHAM	1563	ILS/DME	33	IBM	TRD 522800N 014544W	146	25/62.5	25/100		100		27	
								522652N 014438W								
								522714N 014506W								
								TRD 522631N 014406W								
								522737N 014528W								
								522714N 014506W								
								TRD 555251N 042459W								
								555200N 042649W								
								555211N 042602W								
								555138N 042716W								
GLASGOW/GLASGOW	1661	ILS/DME	5	IUU	555238N 042637W	23	IOO	TRD 555211N 042602W	46	25/62.5	25/100		100		29	
								555238N 042637W								
								TRD 588730N 026302W								
								588724N 026423W								
								588732N 025367W								
								TRD 588728N 025452W								
								588733N 025335W								
								588732N 025357W								
								TRD 421046N 423004E								
								421028N 422818E								
KIRKWALL	5108	ILS/DME	9	IORK	5109	ILS/DME	27	IKIR	TRD 421046N 423004E	87	25/62.5	15/100	100		24	
									421028N 422818E							
									TRD 472900N 213700E							
									522126N 044231E							
									522126N 044248E							
									522126N 044250E							
									TRD 423317N 181705E							
									422408N 181508E							
									TRD 585736N 210519E							
									555844N 210554E							
GEO KUTAI/KOPITNARI	39665	ILS/DME	7	IKS	2467	ILS/DME	6	ODA	TRD 344745N 015427W	238	25/62.5	25/100	100		27	
									344650N 015602W							
									TRD 383512N 051939W							
									383535N 051841W							
									TRD 594722N 052034E							
									594700N 052000E							
									594722N 052033E							
									TRD 630659N 075115E							
									630634N 074857E							
									TRD 473800N 262300E							
TRD 600043N 133448E																
HNG DEBRECEEN	6927	ILS/DME	05R	DCN	5783	ILS/DME	7	KB	TRD 600126N 133434E	357	25/62.5	25/100	100		27	
									600126N 133434E							
									TRD 654851N 150420E							
									654805N 150509E							
									TRD 582241N 153038E							
									582411N 153128E							
									TRD 632414N 190298E							
									632449N 185837E							
									TRD 593929N 175556E							
									593951N 175821E							
TRD 465423N 073024E																
465501N 072940E																
HRV DUBROVNIK/CILIP	6584	ILS/DME	11	IDU	3054	ILS/DME	27	TT	TRD 490429N 201305E	94	25/62.5	25/63	63		27	
									490419N 201517E							
									TRD 462930N 164029E							
									462819N 154130E							
									TRD 364346N 284753E							
									364210N 284726E							
									TRD 411437N 363456E							
									411546N 363328E							
									TRD 556926N 082018E							
									556900N 082000E							
TRD 443132N 010835W																
443215N 010655W																
LTU PALANGA	5306	ILS/DME	19	IAN	4528	ILS	24	CAA	TRD 491816N 040149E	67	25/62.5		62		62	
									491842N 040343E							
									TRD 440653N 152138E							
									440655N 152021E							
									TRD 564038N 124903E							
									564156N 124924E							
									TRD 423400N 210200E							
									423400N 210200E							
									TRD 464128N 32314E							
									464011N 322952E							
TRD 480130N 331219E																
MRC OUJDA/ANGADS	2467	ILS/DME	6	ODA	4528	ILS	24	CAA	TRD 480059N 331201E	5	25/62.5		62		62	
									480059N 331201E							
									TRD 405900N 713200E							
									TRD 502800N 042846E							
									502732N 042647E							
									TRD 492555N 172531E							
									492525N 172331E							
									TRD 511752N 064724E							
									511702N 064528E							
									511702N 064628E							
Alt=42,37,38																
NOR STORD	5730	ILS/DME	14	SRD	57286	ILS/DME	05R	IDSE	TRD 553124N 083138E	80	25/62.5	25/100	100		27	
									553143N 083406E							

ONLY LLZ

Planned opposite RWY

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VHF Channel	DME Channel	MLS Channel	CTY	Location	SAFIRE Ref	Service	Rwy Designat Id or	Co-ordinates	TRD	VHFDOC	DMEDOC	MLSDOC	MaxFL	VHF EIRP	DME EIRP	Remarks	
110.150	38Y		DNK	SINDAL/SINDAL	5557	ILS/DME	26	SDL	TRD 573011N 101301E	86	25/62.5	25/100	100			27	
			F	PHALSBOURG	1322	ILS/DME	24	PB	TRD 484533N 071101E								
				TOUSSUS-LE-NOBLE	4081	ILS/DME	25R	TNO	TRD 484458N 020529E								
				LE TOUQUET/PARIS-P	1191	ILS/DME	14	LT	TRD 503042N 013756E								
			G	BRISTOL/LULSGATE	1579	ILS/DME	27	IBTS	TRD 512255N 024411W								
					1580	ILS/DME	9	IBON	TRD 512254N 024312W								
				SCATSTA	6970	ILS/DME	24	ISCA	TRD 602500N 011700W								
				BARROW/WALNEY IS.	5257	ILS/DME	35	IWL	TRD 540805N 031612W								
			I	ALGHERO/FERTILIA	5534	ILS/DME	20	IALF	TRD 403730N 031553W								
					5534	ILS/DME	20	IALF	TRD 403706N 081657E								
	NAPOLI/CAPODICHINO	6328	ILS/DME	6	NPC	TRD 414755N 121347E											
	ROMA/FIUMICINO	6327	ILS/DME	25	FEE	TRD 414836N 121555E											
	GHEDI	36826	ILS/DME	31	IGD	TRD 452332N 101631E											
	NOR	STOKMARKNES/SKAGEN	5921	ILS/DME	9	STK	TRD 683448N 150040E										
	TUR	KAKLICIZMIR	7122	ILS/DME	17	IKLC	TRD 383001N 265834E										
		ISTANBUL/SABIHA GOKCEN	42005	ILS/DME	6	ISGN	TRD 383142N 265839E										
	G	MILDENHALL	4747	ILS	11	IMIL	TRD 522100N 003100E										
110.200	39X		I	TARANTO/GROTTAGLIE	4748	ILS	29	IMLD	TRD 522200N 002800E	25/62.5	25/100	25/100	100	17	38	MIL	
				SIENA	5877	VOR/DME	TAG	403038N 172428E									
				ROU	CRAIOVA	4377	VOR/DME	CRV	441900N 235500E								
				D	WURZBURG	704	VOR	WUR	494303N 095649E								
				F	DEAUVILLE/ST-GATIE	1125	VOR	DVL	491839N 001846E								
				F	ROANNE/RENAISON	6222	VOR	ROA	460333N 035957E								
110.250	40X		ALG	ALGER/H.BOUEDIENE	7	ILS/DME	23	AG	TRD 364132N 031303E	52	25/62.5	25/100	100			29	
				AUT	WIEN/SCHWECHAT	92	ILS/DME	11	OEW								TRD 480616N 163522E
				AZE	QABALA	6985	ILS/DME	34	IQR								TRD 404935N 474312E
				BUL	BURGAS/SARAFOVO	6224	ILS/DME	22	IBG								TRD 404748N 474350E
				CYP	LARNACA	213	ILS/DME	22	ILC								TRD 423326N 272954E
				D	FRANKFURT/MAIN	6816	ILS/DME	7	IFEL								TRD 423440N 273138E
				DNK	BILLUND	39995	ILS/DME	9	BIL								TRD 345138N 333629E
					BORNHOLM/ROENNE	770	ILS/DME	29	IRE								TRD 550248N 083215E
					FAROE ISLANDS/VAGAR	789	ILS/DME	30	MF								TRD 500221N 003001E
				E	MAHON/MENORCA	6676	ILS/DME	1	IMH								TRD 554400N 091100E
		SANTIAGO/SANTIAGO	6697	ILS/DME	17	IGO	TRD 550406N 144421E										
		ALICANTE/ALICANTE	6710	ILS/DME	10	IAT	TRD 550342N 144613E										
		BILBAO	6648	ILS/DME	30	IBL	TRD 550342N 144612E										
		BARCELONA	6646	ILS/DME	07L	QAA	TRD 620344N 071554W										
	F	BORDEAUX/MERIGNAC	1035	ILS/DME	23	BD	TRD 395240N 041318E										
		MARSEILLE/PROVENCE	1223	ILS/DME	13L	ML	TRD 395116N 041256E										
		PARIS/ORLY	1308	ILS/DME	02L	OLN	TRD 395116N 041255E										
		QUIMPER/PLUGUFFAN	3501	ILS/DME	28	QR	TRD 425254N 082437W										
							TRD 425430N 082504W	346	25/62.5	25/100	100	27					
							TRD 381646N 003216W	280	25/62.5	25/100	100	29					
							TRD 381658N 003417W	117	25/62.5	25/100	100	29					
							TRD 431827N 023542W	246	25/62.5	25/100	100	27					
							TRD 431753N 025420W	45	25/62.5	23/100	100	29					
							TRD 411825N 020626E	314	25/62.5	23/100	100	29					
							TRD 411748N 020430E	198	25/62.5	25/100	100	29					
							TRD 444635N 004606W	93	25/62.5	25/100	100	29					
							TRD 445016N 004218W										
							TRD 432532N 051351E										
							TRD 432639N 051208E										
							TRD 484423N 022318E										
							TRD 484311N 022248E										
							TRD 475833N 041113W										
							TRD 475825N 040937W										

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VHF Channel	DME Channel	MLS Channel	CTY	Location	SAFIRE Ref	Service	Rwy Designat Id or	Co-ordinates	TRD	VHFDOC	DMEDOC	MLSDOC	MaxFL	VHF EIRP	DME EIRP	Remarks
110.300	40X		F	CHATEAUROUX	3502	ILS/DME	21 CX	TRD 465051N 014225E 465222N 014434E	33	25/62.5	25/100					29
				AJACCIO/N.BONAPARTE	4220	ILS/DME	2 AC	TRD 415558N 084828E 415449N 084753E	205	25/62.5	25/100					
			FIN	HELSINKI-VANTAA	6634	ILS/DME	22L HK	TRD 601828N 245542E 601947N 245825E	48	25/62.5	25/100					27
				KUOPIO	5625	ILS/DME	33 KU	TRD 630157N 274527E 625954N 274830E	157	25/62.5	25/100					27
				KUUSAMO	6636	ILS/DME	12 KO	TRD 655842N 291553E 655932N 291322E	312	25/62.5	25/100					27
			G	JERSEY/JERSEY	6270	ILS/DME	27 IDD	TRD 491234N 021121W 491234N 021121W	82	25/62.5	25/100					27
				LEEMING	6317	ILS/DME	16 ILI	TRD 541800N 013200W 512839N 002937W	335	25/62.5	25/100					27 MIL
				LONDON/HEATHROW	1744	ILS/DME	27R IRR	TRD 512844N 002617W 512844N 002733W	90	25/62.5	25/100					29
					1745	ILS/DME	09L IAA	TRD 512843N 002850W 512844N 002733W	270	25/62.5	25/100					29
				PRESTWICK	1810	ILS/DME	12 IPP	TRD 553000N 043403W 553052N 043622W	301	25/62.5	25/100					27
					1811	ILS/DME	31 IKK	TRD 553102N 043701W 553018N 043441W	121	25/62.5	25/100					27
			GEO	BATUMI	6725	ILS/DME	13 ILU	TRD 413604N 413648E 413652N 413526E	311	25/62.5	25/100					27
				TBILISI/TBILISI	6723	ILS/DME	13R IVP	TRD 413926N 445758E 414003N 445830E	316	25/62.5	25/100					27
			GRC	THESSALONIKI/MAKEDONIA	4904	ILS/DME	16 ITSL	TRD 405100N 225800E 405100N 225800E	346	25/62.5	25/100					27
				KAVALA/CHRISOUPOLI	4671	ILS/DME	5 IKVA	TRD 405000N 243700E 405000N 243700E	235	25/62.5	25/100					27
					4672	ILS/DME	23 IKVA	TRD 405000N 243700E 434831N 111202E	55	25/62.5	25/100					2021 TO BECOME OP
								434831N 111202E 434831N 111201E								2021 TO BECOME OP
			I	FIRENZE/PERETOLA	6616	ILS/DME	5 IFZ	TRD 434831N 111201E Alt=45,38 385426N 161334E	226	25/62.5	25/100					29
								385411N 161503E 385410N 161503E								
				LAMEZIA/TERME	5930	ILS/DME	28 LAM	TRD 385410N 161503E Alt=4,10	96	25/62.5	25/100					28
			IRL	CARRICKFINN	2285	ILS/DME	21 IFN	TRD 550216N 082043W 550238N 082022W	20	25/62.5	25/100					No GP?
			ISR	TEL-AVIV/BEN-GURION AIRPORT	30401	ILS/DME	12 BG	TRD 320042N 345208E Alt=42		25/62.5	25/100					29
				KAZ	KOKSHETAU	63755	ILS/DME	2 IOT	TRD 532052N 693650E 531918N 693522E	32	25/62.5	25/100				24
					SHYMKENT	63847	ILS/DME	28 IIM	TRD 422213N 692702E 422137N 692925E	286	25/62.5	25/100				24
					SEMEY	63826	ILS/DME	26 ISP	TRD 502059N 801214E 502104N 801445E	264	25/62.5	25-10-2021				24
					ALMATY	63646	ILS/DME	05R ILM	TRD 432207N 770422E 432031N 770118E	56	25/62.5	25/100		14		20
			LVA	TUKUMS	6602	ILS/DME	13 TKS	TRD 565658N 231254E 565658N 231254E	319	25/62.5	25/100					Airport under development
					6603	ILS/DME	31 TMS	TRD 565600N 231300E 465542N 285728E	139	25/62.5	25/100					Airport under development
			MDA	CHISINAU	6896	ILS/DME	8 IRG	TRD 465535N 285443E 301923N 092552W	268	25/62.5	25/100					27
			MRC	AGADIRIAL MASSIRA	2443	ILS/DME	27 ADA	TRD 301916N 092355W 305647N 065534W	92	25/62.5	25/63					27
				OUARZAZATE	4438	ILS/DME	30 IRZ	TRD 305607N 065531W 690305N 183436E	117	25/62.5	25/100					27
								690300N 183300E 690303N 183435E								27
			NOR	BARDUFOSS	2509	ILS/DME	10 DU	TRD 671621N 142415E 671559N 142029E	289	25/62.5	25/100					27
				BODO/BODO	2522	ILS/DME	7 BO	TRD 694318N 295141E 694332N 295406E	258	25/62.5	25/100					27
				KIRKENESH/OYBUKTMOEN	5924	ILS/DME	24 KR	TRD 601311N 110539E 601116N 110423E	69	25/62.5	25/100					27
				OSLO/GARDERMOEN	4062	ILS/DME	01L OBW	TRD 585201N 053817E 585325N 053821E	196	25/62.5	25/100					27
				STAVANGER/SOLA	5782	ILS/DME	18 ZV	TRD 585325N 053821E 632727N 105652E	359	25/62.5	25/100					27
				TRONDHEIM/VAERNES	2662	ILS/DME	9 TO	TRD 632727N 105652E 632731N 105351E	270	25/62.5	25/100					27
				SVALBARD/LONGYEAR	2642	ILS/DME	10 LB	TRD 781435N 153113E 781449N 152540E	285	25/62.5	25/100					27
								TRD 542256N 182649E 542218N 182908E								29
			POL	GDANSK/REBIECHOWO	4369	ILS/DME	29 IGDA	TRD 500430N 194553E 500450N 194743E	113	25/62.5	25/100					29
				KRAKOW/BALICE	2687	ILS/DME	25 KRW	TRD 522533N 164805E 522512N 165015E	78	25/62.5	25/100					29
				POZANLAWICA	2692	ILS/DME	28 POZ	TRD 522512N 165015E 500637N 215944E	108	25/62.5	25/100					29
				RZESZOW/JASIONKA	2694	ILS/DME	27 RZW	TRD 500637N 215944E 500631N 220229E	91	25/62.5	25/100					29
				WARSZAWA/OKECIE	3602	ILS/DME	33 WA	TRD 521050N 205715E 520924N 205823E	152	25/62.5	25/630					29

COM3- List of national and international assignments in Frequency order

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110.300	40X		POL	WROCLAW	2711	ILS/DME	29 WRO	TRD 510637N 165138E 510556N 165335E	116	25/62.5	25/100		100		29			
			POR	BEJA	6998	ILS/DME	19R BJ	TRD 380334N 075606W 380530N 075558W	6	25/62.5	25/100		100		27			
			ROU	MONTE REAL	7006	ILS/DME	19 MR	TRD 595024N 085308W 595024N 085316W	2	25/62.5	25/100		100		27 MIL			
				BUCURESTI/TOPENI	3553	ILS/DME	08R IOP	TRD 443400N 260800E	260	25/62.5	25/100		100		29			
				CLUJ	5931	ILS/DME	26 ICL	TRD 464700N 234000E	80	25/62.5	25/100		100		37			
			S	CONSTANTA/KOGALNICEANU	4436	ILS/DME	36 ICK	TRD 442300N 282900E 442300N 282900E	180	25/62.5	25/100		100		29			
				KIRUNA	2875	ILS/DME	21 NO	TRD 674942N 202105E 674942N 202105E	34	25/62.5	25/100		100		29			DME will be in operation spring 2019.
				LULEA/KALLAX	2896	ILS/DME	14 PA	TRD 653151N 220903E 653151N 220903E	317	25/62.5	25/100		100		29			DME will be operational in 2023.
			SRB	STOCKHOLM/BROMMA	2941	ILS/DME	12 SB	TRD 592057N 175722E 592123N 175559E	305	25/62.5	25/100		100		31			
				SUNDSVALL/TIMRA	2951	ILS/DME	34 SNN	TRD 623237N 172554E 623124N 172701E	160	25/62.5	25/100		100		28			
				BEOGRAD/SURCIN	3276	ILS/DME	12 YUB	TRD 444836N 201955E 444836N 201744E	302	25/62.5	50/500		500		37			
			TUN	TUNIS/CARTHAGE	3077	ILS/DME	19 TSI	TRD 365121N 101323E 365151N 101355E	12	25/62.5	25/100		100		29			
			TUR	ANKARA/ESEBBOGA	7027	ILS/DME	03R IANK	TRD 400700N 325903E 365509N 304743E	216	25/62.5	25/100		100		27			
				ANTALYA	3104	ILS/DME	36C IAYT	TRD 365318N 304723E 383538N 391544E	186	25/62.5	25/100		100		27			
				ELAZIG	6133	ILS/DME	25 IELG	TRD 383557N 391743E 384600N 392932E	76	25/62.5	100/250		250		27			
			UZB	ERKILET/KAYSERI	4569	ILS/DME	25 IKSJ	TRD 384619N 353033E 405843N 285017E	76	25/62.5	25/100		100		27			
				ISTANBUL/ATATURK	7068	ILS/DME	5 IIST	TRD 405801N 284856E 381834N 270907E	239	25/62.5	25/100		100		27			
				IZMIR/A.MENDERES	3154	ILS/DME	34R IMEN	TRD 381650N 270933E 494921N 235621E	167	25/62.5	25/100		100		27			
			UKR	L'VIV	7266	ILS/DME	31 ILV	TRD 494805N 235806E 491525N 283536E	136	25/62.5	25/100		100		29			
			CNR	VINNYTSIA	66706	ILS/DME	31 IIN	TRD 491525N 283536E 282921N 162141W	138	25/62.5	25/100		100		29			
				TENERIFE NORTE	9039	ILS/DME	30 ITF	TRD 282840N 161947W 404600N 435207E	111	25/62.5	25/100		100		29			
				GYMTRI/SHIRAK	3405	ILS	2 IGM	TRD 404642N 435116E 520656N 235210E	204	25/62.5			62					
			BLR	BREST	6757	ILS	29 IBY	TRD 520612N 235431E 530251N 084846E	113	25/62.5			62					
			D	BREMEN	4580	ILS	9 IBRE	TRD 530242N 084645E 512440N 121148E	268	25/62.5			62					
DNK	LEIPZIG	5891	ILS	26L ILSL	TRD 512452N 121503E 554400N 091100E	86	25/62.5			62								
	BILLUND	38365	ILS	9 BIL	TRD 554400N 091100E 445258N 022543E	91	25/62.5			62								
	AURILLAC	1007	ILS	15 AR	TRD 445340N 022503E 362400N 280400E	329	25/62.5			62								
GRC	RODOS/PARADISI	1965	ILS	25 IRDS	TRD 362400N 280400E 890000N 530000E	70	25/62.5			62								
RUS	MURMANSK	3244	ILS	14	TRD 890000N 530000E 471300N 392400E	25/62.5				62								
S	ROSTOV-NA-DONU	3246	ILS	22	TRD 471300N 392400E 573908N 121609E	25/62.5				62								
	GOTEBORGLANDVETTER	5972	ILS	3 SGG	TRD 574043N 121739E 394833N 303017E	206	25/62.5			62								
	ESKISEHIR	4482	ILS	9 IESR	TRD 394833N 303017E 481625N 255809E	273	25/62.5			62								
UKR	CHERNIVTSI	4489	ILS	33 ICR	TRD 481509N 255900E 482126N 350424E	153	25/62.5			62								
UZB	DNIPROPETROVSK	4491	ILS	26 IDR	TRD 482126N 350424E 482122N 350659E	90	25/62.5			62								
	VINNYTSIA	4521	ILS	31 IWN	TRD 491526N 283537E 491416N 283725E	138	25/62.5			62								
	ZAPORIZHZHIA	4523	ILS	02R IZA	TRD 475308N 361936E 475132N 351843E	203	25/62.5			62								
UZB	ODESSA/TSENTRALNY	3214	ILS	34 IOE	TRD 462500N 304042E 371600N 671700E	163	25/62.5			62								
	TERMEZ	5590	ILS	25 INO	TRD 371600N 671700E 423000N 593600E	25/62.5				62								
	NIKUS	5589	ILS	33 IZR	TRD 423000N 593600E 384700N 842900E	25/62.5				62								
110.350	40Y		BEL	BRUXELLES/NATIONAL	4001	ILS/DME	25L IBL	TRD 505319N 042841E 505349N 043111E	65	25/62.5	25/100		100		29			
			D	BUCHSEL	29773	ILS/DME	21 IBUE	TRD 505359N 043139E 505323N 042913E	250	25/62.5	25/100		100		29	Planned opposite RWW		
				CANNES/MANDELIEU	5043	ILS/DME	35 CMD	TRD 433233N 065658E 43324N 065700E	173	25/62.5	25/250		250		29	MIL		
F	PARIS/CH.DE GAULLE	4797	ILS/DME	27R PNW	TRD 490126N 023033E 490139N 023324E	85	25/62.5	25/250		250		29						
	AGEN/LA GARENNE	976	ILS/DME	29 AG	TRD 441041N 003445E 441018N 003549E	112	25/62.5	23/100		100		29						
	G	HAWARDEN	3585	ILS/DME	22 IHDN	TRD 531012N 025822W 531055N 025831W	41	25/62.5	25/100		100		27					
		5206	ILS/DME	4 IHWD	TRD 531044N 025844W 531044N 025845W	221	25/62.5	25/100		100		27						

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110.350	40Y		HNG	PAPA	5467	ILS/DME	34 PCD	TRD 472300N 173000E	160	25/62.5	25/100		100		29	MIL
			I	LATINA CERVIA	5852 5069	ILS/DME ILS/DME	12 ILAI 11 CER	413200N 125500E TRD 441400N 121800E		25/62.5 294	25/100 25/100		100		27	MIL
			NOR POL	KRISTIANSAND/KJEVIK RADOM	6297 66605	ILS/DME ILS/DME	3 CN 25C IIRDM	581155N 080449E 581155N 080448E TRD 512319N 211241E	215	25/62.5 25/62.5	25/100 25/100		100		27 29	
			S	ORNSKOLDSVIK	73707	ILS/DME	30 ENO	TRD 632454N 185803E TRD 470454N 081735E	122	25/62.5	25/100		100		30	
			SUI	EMMEN	6104	ILS/DME	22 IEM	470552N 081845E	38	25/62.5	25/100		100		27	MIL airport with future CIV use
			TUR	ORDU/GIRESUN ISTANBUL/ISTANBUL	42008	ILS/DME	10 IOGN	TRD 405749N 380623E	282	25/62.5	25/100		100	27	27	DHMI
				HAVALIMANI	67205	ILS/DME	16R IUOB	TRD 411755N 284224E	0	25/62.5	25/100		100		27	DHMI
110.400	41X		AUT	FISCHAMEND	62	VOR/DME	FMD	480618N 163745E		60/500	60/500		500	17	35	TVOR
			BLR	ORSHA	65897	VOR/DME	ORS	542715N 302021E		100/500	100/500		500	23	37	
			DNK	SKRYDSTRUP	5825	VOR/TAC	SKR	551344N 091251E		80/500	80/500		500	17	37	
			GRC	NEA ANCHIALOS	1955	VOR/DME	AGH	391300N 224800E		40/250	40/250		250	17	28	TVOR
				SANTORINI	1969	VOR/DME	SNI	362400N 252900E		40/250	40/250		250	17	28	TVOR
			HOL	ROTTERDAM	2060	VOR/DME	RTM	@515925N 042851E		100/250	100/250		250	17	37	
			G	PERTH/PERTH	1801	VOR	PTH	562633N 032207W		80/500			500	17		
110.450	41Y		D	MAGDEBURG	3408	VOR/DME	MAG	515942N 114740E		80/500	80/500		500	26	39	
			F	STRASBOURG/SAVERNE	4691	VOR/DME	SAV	484746N 072653E		60/250	60/250		250	17	37	
			I	SALERNO/PONTECAGNANO	4711	VOR/DME	PTC	403712N 145430E Alt=32		40/250	40/250		250	17	38	TVOR
				VOGHERA	36186	VOR/DME	VOG	445752N 085813E		40/250	40/250		250	17	37	
			TUR	ARTVIN/RIZE	65586	VOR/DME	ART	411040N 405118E		25/100	25/100		100	17	27	DHMI
110.500	42X		ALG	BEJAIA/RAMDANE	14	ILS/DME	26 BJ	TRD 364236N 050313E	82	25/62.5	20/100		100		29	Pas de GP?
			AZE	BAKU/HEYDAR ALIYEV	72192	ILS/DME	17 IBU	TRD 402715N 500348E 402856N 500341E	359	25/62.5	25/100		100		29	
			CZE	CESKE BUDEJOVICE	31847	ILS/DME	27 BW	TRD 485648N 142419E 485643N 142613E	89	25/62.5	25/100		100	14	27	
			D	OBERPFAFFENHOFEN	7156	ILS/DME	22 IOBI	TRD 480417N 111610E 480511N 111730E	42	25/62.5	25/100		100		27	
				RAMSTEIN	5389	ILS/DME	26 IRWL	TRD 492555N 073424E 492606N 073706E	82	25/62.5	25/100		100		29	MIL (US)
			DNK	KOBENHAVN/KASTRUP	5552	ILS/DME	04L CH	TRD 553705N 123837E 553536N 123830E	221	25/62.5	25/100		100		27	
			E	SAN JAVIER	5098	ILS/DME	05R ISJ	TRD 374700N 004804W 374608N 004904W	226	25/62.5	25/100		100		29	
				BADAJOS/TALavera	5097	ILS/DME	31 ITL	TRD 385401N 065015W 385310N 064836W	126	25/62.5	25/100		100		29	
			F	AVIGNON/CAUMONT	1012	ILS/DME	17 AN	TRD 435350N 045416E 435441N 045408E	349	25/62.5	25/100		100		29	
				ROUEN/BOOS	1351	ILS/DME	22 RN	TRD 492240N 010958E 492321N 011046E	41	25/62.5	25/100		100		29	
				ROCHEFORT/ST-AGNAN	1344	ILS/DME	30 ROC	TRD 455315N 010000W 455316N 005829W	123	25/62.5	23/100		100		29	
				FIGARI-SUD CORSE	1149	ILS/DME	23 GR	TRD 412942N 090505E 413032N 090616E	48	25/62.5	23/100		100		29	
				ETAIN/ROUVRES	1144	ILS/DME	2 MCY	TRD 491424N 054037E 491308N 054015E		25/62.5	25/100		100		29	
			FIN	UTTI	33770	ILS/DME	25 UT	TRD 605338N 265456E 605348N 265703E	78	25/62.5	40/150		150	19	36	
			G	BOURNEMOUTH/HURN	1572	ILS/DME	26 IBH	TRD 504638N 015134W 504700N 014983W	75	25/62.5	25/100		100		27	
				LONDON/STANSTED	1751	ILS/DME	4 ISED	TRD 504641N 015030W 504658N 015028W	255	25/62.5	25/100		100		27	
					1752	ILS/DME	22 ISX	TRD 515352N 001514E 515248N 001329E	223	25/62.5	25/100		100		29	
				NEWQUAY/NEWQUAY	5942	ILS/DME	30 INWQ	TRD 515313N 001406E 515221N 001258E	43	25/62.5	25/100		100		29	
					5943	ILS/DME	12 INEW	TRD 502658N 050107W 502611N 045914W	120	25/62.5	25/100		100		27	
			GRC	ATHINA/EL VENIZELOS	4951	ILS/DME	03L IATL	TRD 502632N 045947W 375700N 235600E	300	25/62.5	25/100		100		27	
				KASTEI	4952	ILS/DME	21R IEVR	TRD 375500N 235500E	37	25/62.5	25/100		100		27	
			HNG	BUDAPEST/FERIHEGY	2000	ILS/DME	2 IKAT	TRD 351100N 251900E		25/62.5	25/100		100		27	MIL
			HRV	SPLIT/KASTEI	6582	ILS/DME	5 IST	TRD 472600N 191500E TRD 433252N 161850E	312	25/62.5	25/100		100		29	
			I	PARMA	5505	ILS/DME	20 IPR	TRD 444856N 101732E 444955N 101751E	233	25/62.5	75/250		250		37	
			ISR	RAMON (TIMNA)	38185	ILS/DME	19 RB	TRD 31E=50.44 TRD 294232N 350032E	16	25/62.5	25/100		100		28	
			KAZ	AKTOBE	63706	ILS/DME	31 ITU	TRD 501545N 571049E 501413N 571258E	13	25/62.5	25/100		100		29	

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110.500	42X		LTU	VILNIUS	5397	ILS/DME	1 IAV	TRD 543855N 251745E 543734N 251056E TRD 355134N 142831E 355010N 143006E 355010N 143005E	202	25/62.5	25/100		100			27	
				MLT	MALTA/LUQA	3601	ILS/DME	31 LM	Alt=114,110 TRD 601827N 051248E 601708N 051310E	135	25/62.5	25/40		62		37	
				NOR	BERGEN/FLESAND	27865	ILS/DME	35 BG	TRD 681445N 144019E 681500N 144000E	170	25/62.5	25/100		100		27	
					SVOLVAER	2648	ILS/DME	1 SV	681419N 143950E	192	25/62.5	25/100		100		27	
				POL	LODZ	5075	ILS/DME	25R LOD	TRD 514256N 192208E 514325N 192402E TRD 540126N 190644E 540137N 190900E	71	25/62.5	25/100		100		29	modification EIRP - RAFT11WP18
					MALBORK	5421	ILS/DME	25 IMB	540138N 190859E	79	25/62.5	25/100		100		29	modification EIRP - RAFT11WP18
					SZCZECIN	4066	ILS/DME	31 SZC	TRD 533540N 145300E 533442N 145442E	131	25/62.5	25/100		100		29	
				POR	FARO/FARO	7002	ILS/DME	10 FIT	TRD 378047N 075722W 370056N 075857W	280	25/62.5	25/100		100		27	
				ROU	BUCURESTI/BANEASA	4557	ILS/DME	25 IBN	TRD 443400N 260400E	70	25/62.5	25/100		100		29	
					IASI	28787	ILS/DME	32 IAS	TRD 471200N 273600E 471130N 273638E TRD 643230N 184158E 643200N 184300E	140	25/62.5	25/100		100		29	
				S	LYCKSELE	2897	ILS/DME	32 NL	643248N 184258E	143	25/62.5	25/100		100		27	
				SUI	ZURICH	6061	ILS/DME	16 IZH	TRD 472635N 083330E 472823N 083223E	335	25/62.5	25/100		100		27	
				SVN	LJUBLJANA/BRNIK	4477	ILS/DME	30 LJB	TRD 461404N 142811E 461256N 142814E	126	25/62.5	25/100		100		27	
				TUN	TOZEUR/NEFTA	3075	ILS/DME	9 TOZ	TRD 335622N 080716E 335627N 080513E	270	25/62.5	25/100		100		29	
				TUR	CORLU	4323	ILS/DME	4 ICRL	TRD 410858N 275610E 410750N 275433E	229	25/62.5	25/100		100		27	
					ERZURUM	3132	ILS/DME	26R IERZ	TRD 395724N 410831E 395725N 411121E	88	25/62.5	25/100		100		27	
					MERZIFON	27251	ILS/DME	05R IMRI	TRD 405028N 353236E 404928N 353037E	235	25/62.5	65/100		100		27	
					ADYAMAN	28146	ILS/DME	4 IADY	TRD 374422N 382852E 374351N 382808E	229	25/62.5	25/100		100		37	
				UZB	TASHKENT	5592	ILS/DME	08L ING	TRD 411500N 691800E 411046N 691703E	229	25/62.5	25/100		100		29	
				D	DRESDEN	3325	ILS	4 IDRE	TRD 510846N 134522E 510739N 134522E	221	25/62.5					62	
	HAMBURG/HAMBURG RAMSTEIN	4365 634	ILS ILS	5 IHHE 27 IRAW	TRD 533819N 100017E 533716N 095820E 492700N 073500E	230	25/62.5	25/62.5		62		62					
F	MONT-DE-MARSAN	1247	ILS	27 MDM	TRD 435437N 003226W 435439N 002931W	87	25/62.5			62							
GEO	SUKHUMI/BABUSHARA	6721	ILS	30	430000N 410000E		25/62.5			62		TEMPORARY - PROHIBITED AREA					
RUS	KAZAN	3220	ILS	11	553600N 491700E		25/62.5			62							
	SANKT-PETERBURG/PULK	3259	ILS	10	594900N 301700E		25/62.5			62							
	ROSTOV-NA-DONU	3247	ILS	4	471300N 392400E		25/62.5			62							
	MOSKVA/SHEREMETEV	3233	ILS	25	556800N 372500E		25/62.5			62							
TUR	ETIMESGUT	4233	ILS	11 ETI	TRD 395648N 324204E 395716N 324033E	294	25/62.5			62							
UKR	KYIV/BORISPOL'	3199	ILS	36L IKE	TRD 502144N 305256E 501925N 305237E	183	25/62.5			62							
UZB	ANDIZHAN	5591	ILS	4 IAN	TRD 404400N 721800E 481354N 141030E	267	25/62.5	25/100		100		29					
110.550	42Y		AUT CZE	LINZ/LINZ	5086	ILS/DME	9 OEM	TRD 481353N 141031E	267	25/62.5	25/100		100		29		
				PRAHA/RUZYNE	5533	ILS/DME	06R PU	TRD 500600N 141400E TRD 500247N 083532E	245	25/62.5	25/100		100		27 RESERVED FOR A NEW RWY 06 R		
				D	FRANKFURT/MAIN	6908	ILS/DME	07C IFCE	TRD 500157N 083221E 502274N 092704E	250	25/62.5	25/100		100		33	GP 15NM
					WUNSTORF	6851	ILS/DME	8 IWUE	TRD 522728N 092514E TRD 364039N 042832W	262	25/62.5	25/100		100		29	MIL
				E	MALAGA	6720	ILS/DME	12 IMG	TRD 364126N 043015W 486748N 022508E	298	25/62.5	25/100		100		29	
				F	PARIS/LE BOURGET	3410	ILS/DME	27 RGE	TRD 486757N 022625E TRD 493909N 012925W	85	25/62.5	25/100		100		29	
					CHERBOURG/MAUPERTU	1099	ILS/DME	28 MP	TRD 493851N 012726W TRD 472305N 004319E	101	25/62.5	25/100		100		29	
					TOURS/ST-SYMPHORIEN	4082	ILS/DME	20 TS	TRD 472625N 004345E	15	25/62.5	25/100		100		29	
				G	LONDON/HEATHROW	67406	ILS/DME	27 INW	TRD 512912N 002913W	88	25/62.5	25/100		100		29	3rd Runway
						67405	ILS/DME	9 IZZ	TRD 512912N 002913W TRD 521826N 044703E 521723N 044432E	268	25/62.5	25/100		100		29	3rd Runway
				HOL	AMSTERDAM/SCHIPHOL	6347	ILS/DME	6 KAG	TRD 521722N 044433E TRD 452621N 101859E 452518N 102020E	238	25/62.5	23/100		100		27	
				I	BRESCIA/MONTICHIARI	4614	ILS/DME	32 IBS	TRD 452518N 102020E Alt=109,101 TRD 414719N 123608E 414819N 123522E	134	25/62.5	25/100		100		28	
					ROMA/CIAMPINO	31145	ILS/DME	15 ICIA	TRD 414819N 123522E Alt=134,105	330	25/62.5	25/100		100		27	

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								TRD 380954N 130506E								
								381053N 130533E								
110.550	42Y		I	PALERMO/PUNTA RAIS	6421	ILS/DME	20 ITO	381053N 130532E Alt=12,5	22	25/62,5	25/100		100		28	
			NOR	OSLO/GARDERMOEN	4064	ILS/DME	19L GME	TRD 601019N 110620E 601153N 110723E	16	25/62,5	25/100		100		27	
								TRD 511408N 062938E								
110.600	43X		D	MONCHENGLADBACH	4825	ILS	31 IMGW	511346N 063033E	129	25/62,5			62			
			BEL	BRUNO	111	VOR/DME	BUN	510707N 045032E		40/260	40/260		260	17	29	Real Power=34dBW - To be decrease
			POL	RZESZOW/JASIONKA	43026	VOR/DME	RSW	500700N 220700E		100/500	100/500		500	17	37	
			D	LUBECK	72196	VOR	LUB	535627N 104004E		65/500			500	17		planned 2019
				BAYREUTH	283	VOR	BAY	@496907N 113812E		50/250			250	25		
110.650	43Y		GRC	ALEXANDRIA	72845	VOR	AXE	403900N 223000E		40/250			250	17		
			I	ANCONA	2096	VOR/DME	ANC	433511N 132816E		100/500	100/500		500	17	36	
			POL	ZIELONA GORA	6786	VOR/DME	ZLG	520827N 154802E		80/500			500	20	37	
								TRD 504850N 031140E								
110.700	44X	526	BEL	KORTRIJK/WEVELGEM	139	ME	24 IKT	504914N 031306E	62	25/62,5	25/100	23/100	100		29	
			F	TOULOUSE/BLAGNAC	1402	ILS/MLS/D ME	14R TBS	TRD 433653N 012235E 433833N 012050E	323	25/62,5	23/100	23/100	100		29	
			BIH	SARAJEVO/SARAJEVO	5428	ILS/DME	12 BHS	TRD 434968N 181919E	297	25/62,5	25/100		100		29	
								TRD @535238N 280429E 535414N								
			BLR	MINSK-2	51525	ILS/DME	13L IMDL	280216E Alt=204,196	319	25/62,5	25/100		100	8	29	
								TRD 424142N 232636E								
			BUL	SOFIA/VRAJEDBNA	5848	ILS/DME	9 ISL	424154N 232413E	275	25/62,5	25/100		100		27	
			D	BERLIN-BRANDENBURG	7131	ILS/DME	07L IBNE	TRD 522246N 133204E 522211N 132919E	249	25/62,5	25/100		100		30	
			DNK	BILLUND	728	ILS/DME	27 LEL	TRD 554422N 090742E	87	25/62,5	25/100		100		26	
			E	ALBACETE	5096	ILS/DME	9 IABT	TRD 385657N 015035W 385649N 015231W	268	25/62,5	25/100		100		29	
								TRD 402924N 033429W 403112N 033424W								
				MADRID/BARAJAS	4100	ILS/DME	18R IMR	403112N 033426W	360	25/62,5	25/100		100		29	
			F	NICE/COTE D'AZUR	1277	ILS/DME	04R NA	TRD 434004N 071345E 433852N 071222E	225	25/62,5	23/100		100		29	
				PARIS/CH.DE GAULLE	1296	ILS/DME	27L CGW	TRD 490113N 023030E 490127N 023326E	85	25/62,5	25/100		100		29	
			FIN	HELSINKI-VANTAA	5055	ILS/DME	22R HUO	TRD 601839N 245359E 601949N 245517E	48	25/62,5	25/100		100		39	
								TRD 612407N 032137W 512332N 032005W								
			G	CARDIFF/CARDIFF	1593	ILS/DME	30 ICWA	512356N 032026W	117	25/62,5	25/100		100		27	
								TRD 512328N 031935W 512401N 032103W								
					1594	ILS/DME	12 ICDF	512356N 032026W	297	25/62,5	25/100		100		27	
				WADDINGTON	5946	ILS/DME	20 IWA	TRD 531000N 003200W Alt=67	21	25/62,5	25/100		100		27	MIL
			GRC	LIMNOS	1947	ILS/DME	4 ILMO	TRD 385506N 252500E	223	25/62,5	25/100		100		27	
			I	FORLI	7242	ILS/DME	12 IFOR	TRD 441100N 126500E	295	28/62,5	25/100		100		27	Planned
								TRD 422517N 141022E 422613N 141113E								
				PESCARA	2212	ILS/DME	22 IPS	422613N 141112E Alt=14,9	36	25/62,5	25/100		100		28	
								TRD 422517N 141022E 422613N 141113E								
					39805	ILS/DME	22 IPSC	422613N 141112E Alt=14,9	36	25/62,5	25/100		100		27	
			IRL	CONNAUGHT	6159	ILS/DME	26 ICK	TRD 535428N 085019W 535439N 084820W	79	25/62,5	25/100		100		27	
								535434N 084902W								
			KAZ	ZHEKZAZGAN	63883	ILS/DME	22 IGN	TRD 474150N 674259E 474249N 674502E	232	25/62,5	25/100		100		30	
				PAVLODAR	63800	ILS/DME	21 IPW	TRD 521054N 770310E 521202N 770504E	232	25/62,5	25/100		100		30	
								TRD 531329N 633212E 531197N 633311E								
				KOSTANAY	63789	ILS/DME	33 INA	TRD 493659N 061103E 493759N 061359E	337	25/62,5	25/100		100		24	
			LUX	LUXEMBOURG/LUXEMBO	4964	ILS/DME	24 ILW	TRD 493759N 061359E	60	25/62,5	25/100		100		27	
								TRD 270922N 131336W 270759N 131410W								
			MRC	LAAYOUNE/HASSAN 1ER	2461	ILS/DME	2 AUN	TRD 332310N 073554W 332111N 073520W	197	25/62,5	25/100		100		27	
				CASABLANCA/MOHAMMED V	34338	ILS/DME	35L INL	TRD 332111N 073520W 612326N 054536E	164	25/62,5	25/50		62		27	
								612300N 054600E 612326N 054537E								
			NOR	FORDE/BRINGELAND	2542	ILS/DME	7 BL	TRD 704038N 233919E 704100N 233900E	254	25/62,5	25/100		100		27	
								704033N 233928E								
				HAMMERFEST	2547	ILS/DME	23 HF	TRD 704033N 233928E 654646N 131314E	56	25/62,5	25/100		100		27	
								654800N 131200E 654646N 131316E								
				MOSJOENKJAERSTAD	2582	ILS/DME	34 MS	TRD 593411N 091218E 593400N 091300E	160	25/62,5	25/100		100		27	
								593410N 091218E								
				NOTODDEN	2590	ILS/DME	12 NT	TRD 593410N 091218E	307	25/62,5	25/100		100		27	
			ROU	ARAD	4854	ILS/DME	27 IAD	TRD 461100N 211400E	90	25/62,5	25/100		100		29	

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110.700	44X		ROU	BACAU	5717	ILS/DME	34 IBC	TRD 463200N 265400E	160	25/62.5	25/100		100		37	
				BUCURESTI/IOTOPENI	3554	ILS/DME	26R IRR	TRD 443500N 260500E	80	25/62.5	25/100	100	29			
				SIBIU	6275	ILS/DME	27 ISB	TRD 454700N 240500E	90	25/62.5	50/100	100	28			
				TULCEA	9011	ILS/DME	34 ITC	TRD 450400N 284200E	160	25/62.5	25/100	100	29			
			S	RONNEBY	2921	ILS/DME	19 DF	TRD 561516N 151543E	9	25/62.5	25/100	100	29	DME: Ongoing installation and soon to be in operation.		
				STOCKHOLM/MARLANDA	2937	ILS/DME	19R NSA	TRD 593949N 175512E	10	25/62.5	25/100	100	27			
			SUI	UMEA/UMEA	4476	ILS/DME	32 SNU	TRD 634759N 201601E	138	25/62.5	25/100	100	27			
				SION	5524	ILS/DME	25 ISI	TRD 461257N 071840E	73	25/62.5	30/200	200	27			
			SVK	BRATISLAVA/IVANKA	3043	ILS/DME	31 OB	TRD 481042N 171200E	134	25/62.5	50/100	100	27			
			TUN	TABARKA	3521	ILS/DME	27 TAB	TRD 365842N 085315E	93	25/62.5	25/100	100	29			
TUR	DENZLUCARDAK	7049	ILS/DME	23 ICRD	TRD 374635N 294057E	59	25/62.5	25/100	100	27						
	ERZURUM	6332	ILS/DME	08L IEZR	TRD 374724N 294250E	268	25/62.5	25/100	100	29						
CNR	NEVSEHIR/KAPADOKYA	7080	ILS/DME	11 ITZK	TRD 395729N 411154E	297	25/62.5	25/100	100	27						
	GRAN CANARIA	9031	ILS/DME	21R RLP	TRD 275632N 152251W	21	25/62.5	25/100	100	29						
D	NIEDERRHEIN	5153	ILS	27 INIW	TRD 513611N 060706E	92	25/62.5		62							
	FINKENWERDER	5364	ILS	5 IHFE	TRD 533237N 095110E	232	25/62.5		62							
F	AVORD	1014	ILS	24 AV	TRD 470244N 023621E	60	25/62.5		62							
S	KARLSTAD	4118	ILS	21 NOK	TRD 592559N 131935E	26	25/62.5		62							
	MYKOLAIV	4509	ILS	4 INI	TRD 470414N 315630E	231	25/62.5		62							
110.750	44Y		CZE	VODOCHODY	4330	ILS/DME	28 VO	TRD 501312N 142233E	105	25/62.5	25/100		111	14	27	
				BARCELONA	6644	ILS/DME	07R BLE	TRD 411657N 020441E	246	25/62.5	25/100	100	29			
			F	LILLE/LESQUIN	3631	ILS/DME	26 LIL	TRD 503343N 030434E	78	25/62.5	23/100	100	29			
				LYON/ST EXUPERY	1214	ILS/DME	35L SAN	TRD 454456N 050508E	175	25/62.5	23/100	100	29			
			G	RODEZ	3494	ILS/DME	31 RDE	TRD 442452N 022817E	129	25/62.5	25/100	100	29			
				VILLACOUBLAY	1428	ILS/DME	27 VVO	TRD 442412N 022916E	88	25/62.5	25/100	100	29			
			G	MARHAM	5905	ILS/DME	24 IMR	TRD 523900N 003300E	55	25/62.5	25/100	100	27 MIL			
				SHAWBURY	6046	ILS/DME	18 ISHY	TRD 524800N 024000W	359	25/62.5	25/100	100	27 MIL			
			G	SOUTHAMPTON	3343	ILS/DME	2 ISU	TRD 505700N 012100W	100	25/62.5	25/100	100	27			
				HOL	VOLKEL	5036	ILS/DME	24R VLO	TRD 505631N 012141W	19	25/62.5	25/100	100	27		
HOL	VOLKEL	5037	ILS/DME		06L VLZ	TRD 505719N 012122W	60	25/62.5	25/100	100	27					
		5037	ILS/DME	06L VLZ	TRD 513954N 054340E	240	25/62.5	25/100	100	27						
I	MILANO/MALPENSA	5536	ILS/DME	17L IMSL	TRD 453640N 084417E	348	25/62.5	25/100	100	28						
		5536	ILS/DME	17L IMSL	TRD 453822N 084359E	348	25/62.5	25/100	100	28						
S	RONCHI DE LEGIONARI	5508	ILS/DME	8 RNC	TRD 454940N 132928E	268	25/62.5	25/100	100	28						
	KARLSBURG	6963	ILS/DME	6 SIA	TRD 454946N 132715E	268	25/62.5	25/100	100	27 MIL						
SUI	ZURICH	5800	ILS/DME	34 IZS	TRD 472845N 083201E	155	25/62.5	25/100	100	27						
	ZURICH	5800	ILS/DME	34 IZS	TRD 472705N 083307E	155	25/62.5	25/100	100	27						
110.800	45X		D	RAMSTEIN	5541	ILS	27 IRWR	TRD 492608N 073412E	86	25/62.5			62			
				GEDERN	431	VOR/TAC	GED	492619N 073644E	80/500	80/500	500	23	40			
			GRC	CHIOS	6853	VOR/DME	HOS	@502443N 091457E	40/250	40/250	250	17	27			
				THESSALONIKI/MAKEDONIA	1984	VOR/DME	MKR	403100N 225800E	40/250	40/250	250	17	28 TVOR			
			I	ZAKINTHOS	1987	VOR/DME	ZAK	374500N 205300E	40/250	40/250	250	17	28 TVOR			
				ROMA/CIAMPINO	2234	VOR/DME	ROM	414817N 123517E	40/250	40/250	250	17	38 MIL			
			SVK	JANOVCE	54365	VOR/DME	RMC	414817N 123517E	40/250	40/250	250	17	38			
				FRIBOURG	3045	VOR/DME	JAN	481043N 123241E	60/500	60/500	500	17	37			
			110.850	45Y	SUI	FRIBOURG	5798	VOR/DME	FRI	@464639N 071325E	100/500	100/500	500	20	37	
							5798	VOR/DME	FRI	TRD 361040N 051843E	86	25/62.5	25/100	100	29	
110.900	46X		ALG	SETIF/AIN ARNAT	72187	ILS/DME	27 ST	TRD 361041N 052033E	86	25/62.5	25/100	100	29			
				BISKRAIM/KHIDER	51911	ILS/DME	31 BI	TRD 344812N 054234E	128	25/62.5	25/150	150	20			
AUT	GRAZ/GRAZ	4445	ILS/DME	35 OEG	TRD 470024N 152607E	169	25/62.5	25/100	100	27						
		4445	ILS/DME	35 OEG	TRD 465849N 152626E	169	25/62.5	25/100	100	27						

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110.900	46X	AZE	GANJA	CHARLEROI/BRUSSELS SOUTH	72194	ILS/DME	30 IGR	TRD 404457N 461810E	128	25/62.5	25/100		100		29	
					121	ILS/DME	24 IGC	404351N 461952E								
					5150	ILS/DME	7 IJU	TRD 502716N 042604E 502745N 042800E TRD 502600N 042646E 502732N 042647E	245	25/62.5	25/100		100		29	Planned opposite RWY
				ORSHA	65885	ILS/DME	5 IRS	TRD @542654N 301918E 542607N 301644E Alt=194.157	240	25/62.5	25/100		100	8	29	
				KOBENHAVN/KASTRUP	751	ILS/DME	22R KLK	TRD 553523N 123600E 553635N 123801E	41	25/62.5	25/100		100		27	
				LERIDA	6668	ILS/DME	31 ILL	TRD 414414N 003120E 414320N 003231E	133	25/62.5	25/100		100		29	
				PALMA DE MALLORCA	881	ILS/DME	06L PLM	TRD 393350N 024447E 393259N 024248E	239	25/62.5	25/100		100		29	
				GETAFE	6659	ILS/DME	5 IGE	TRD 401813N 034241W 401716N 034348W 421312N 083748W	225	25/62.5	25/100		100		29	
				VIGO	6703	ILS/DME	19 VIG	TRD 421423N 083726W 421423N 083726W	11	25/62.5	25/100		100		27	
				SANTANDER/SANTANDE	4626	ILS/DME	29 STA	TRD 432553N 035011W 432532N 034837W	110	25/62.5	25/100		100		29	
				PARIS/ORLY	4543	ILS/DME	24 OLO	TRD 484310N 021954E 484407N 022122E	62	25/62.5	25/100		100		29	
				JYVASKYLA	5255	ILS/DME	30 JY	622434N 253921E 622333N 254126E		25/62.5	40/150		150		36	
				KEMI	5188	ILS/DME	18 KE	TRD 654607N 243444E 654724N 243456E	8	25/62.5	25/100		100		37	
				BELFAST/ALDERGROVE	6241	ILS/DME	17 IFT	TRD 543828N 061309W 543919N 061345W	342	25/62.5	15/100		100		29	
				JERSEY/JERSEY	6269	ILS/DME	9 IJJ	TRD 491234N 021043W 491230N 021207W	263	25/62.5	25/100		100		27	
				LEEDS & BRADFORD	1713	ILS/DME	32 ILF	TRD 535228N 014025W 535147N 013914W 535201N 013931W	138	25/62.5	25/100		100		27	
				LONDON/GATWICK	1735	ILS/DME	26L IWW	TRD 535125N 013855W 535209N 014002W 535201N 013931W	318	25/62.5	25/100		100		27	
				NORWICH	1736	ILS/DME	8 IGG	TRD 510841N 001253W 510855N 001033W 510850N 001120W	78	25/62.5	25/100		100		27	
				NORWICH	1795	ILS/DME	27 INH	TRD 510907N 000946W 510843N 001207W 510850N 001120W	258	25/62.5	25/100		100		27	
				STORNOWAY	5288	ILS/DME	18 STW	TRD 524033N 011594E 524039N 011711E 524039N 011659E	89	25/62.5	25/100		100		27	
				ANDRAVIDA	5289	ILS/DME	36 SOY	TRD 581213N 061944W 581300N 062000W	354	25/62.5	25/100		100		27	
				ANDRAVIDA	6386	ILS/DME	34 IAND	TRD 581255N 061945W Alt=8 375600N 211700E	174	25/62.5	25/100		100		27	MIL
				CHANIA/SOUDA	6491	ILS/DME	29 ISUD	TRD 353200N 240600E 353200N 241000E	112	25/62.5	25/100		100		27	MIL
				NEA ANCHIALOS	5846	ILS/DME	26 IANC	TRD 391300N 224600E	81	25/62.5	25/100		100		27	
				PREVEZA/AKTION	5363	ILS/DME	7 IPRV	TRD 385600N 204700E	248	25/62.5	25/100		100		27	
				ROTTERDAM	5757	ILS/DME	24 RSV	TRD 515702N 042529E 515740N 042652E TRD 364849N 115718E 364901N 115828E	57	25/62.5	23/100		100		27	
				PANTELLERIA	6785	ILS/DME	26 IPTL	TRD 364900N 115828E Alt=185.180 TRD 521039N 070535W 521123N 070514W	75	25/62.5	25/100		100		28	
				WATERFORD	2314	ILS/DME	21 IWD	TRD 521120N 070502W 521123N 070514W	21	25/62.5	25/100		100		27	
				TEL-AVIV/BEN-GURION AIRPORT	30403	ILS/DME	8 BC	TRD 320108N 345405E Alt=49	256	25/62.5	25/100		100		29	
				RABAT/SALE	2472	ILS/DME	21 RS	TRD 340208N 064547W 340345N 064431W	31	25/62.5	25/100		100		27	
				KRISTIANSDIKJEVIK	6835	ILS/DME	21 KJ	TRD 581145N 080428E 581232N 080536E	35	25/62.5	25/100		100		27	
				TROMSO/LANGNES	5920	ILS/DME	1 TC	TRD 694146N 185539E 694028N 185455E	193	25/62.5	25/100		100		27	
				BERLEVAG	2517	ILS/DME	24 BV	TRD 705210N 290044E 705200N 290100E 705224N 290322E	75	25/62.5	25/100		100		27	
				LASK	5419	ILS/DME	28 IAS	TRD 513322N 190922E 513300N 191134E	103	25/62.5	25/100		100		20	
				MIROSLAWIEC	5105	ILS/DME	30 IMI	TRD 532415N 160339E 532322N 160535E	125	25/62.5	25/200		200		26	
				BUCURESTI/OTOPENI	4354	ILS/DME	08L ILL	TRD 443500N 260800E	260	25/62.5	25/100		100		29	
				TIMISOARA/GIARMATA	9009	ILS/DME	11 ITS	TRD 454800N 212400E TRD 592148N 164227E	290	25/62.5	25/100		100		29	
				ESKILSTUNA	2837	ILS/DME	36 SU	TRD 592042N 164241E 592042N 164240E	178	25/62.5	25/100		100		27	

COM3- List of national and international assignments in Frequency order

VHF Channel	DME Channel	MLS Channel	CTY	Location	SAFIRE Ref	Service	Rwy Designat Id or	Co-ordinates	TRD	VHFDOC	DMEDOC	MLSDOC	MaxFL	VHF EIRP	DME EIRP	Remarks	
110.900	46X		SUI	GENEVE/COINTRIN	5843	ILS/DME	4 INE	TRD 461513N 060754E 461350N 060544E TRD 364148N 284713E 364245N 284729E	226	25/62.5	25/100		100			27	
			TUR	DALAMAN	28144	ILS/DME	19 IDMN	364147N 284716E TRD 465330N 291729E 405407N 291921E	15	25/62.5	25/100		100			24	
				SABIHA GOKCEN	7091	ILS/DME	24 ISBH		64	25/62.5	25/100		100			27	
				ARTVIN/RIZE	70985	ILS/DME	7 IART	TRD 411038N 404956E TRD 280218N 163526W 280252N 163337W	250	25/62.5	25/100		100	17		27	
				TENERIFE SUR	9042	ILS/DME	26 ISUR		69	25/62.5	25/100		100			29	
			D	BREMEN	4581	ILS	27 IBRW	TRD 530245N 084800E TRD 505110N 071009E	88	25/62.5			62				
				KOLN/KOLN-BONN	4455	ILS	14L IKES	TRD 505246N 070802E TRD 481926N 060259E 481937N 060452E	318	25/62.5			62				
			F	EPINAL/MIRECOURT	1141	ILS	26 MI	TRD 433649N 050650E TRD 433648N 050626E	85	25/62.5			62				
				SALON	1377	ILS	16 SAL		340	25/62.5			62				
			S	TORSBY	2955	ILS	34 ST	TRD 601002N 128900E 601000N 125900E TRD 494056N 180517E	158	25/62.5			62				
110.950	46Y		CZE	OSTRAVA	239	ILS/DME	22 OSV	TRD 494216N 180736E TRD 500229N 083534E 500146N 083216E	46	25/62.5	25/100		108	14		27	
			D	FRANKFURT/MAIN	6308	ILS/DME	07R IFSE	TRD 511802N 064703E 511718N 064516E	250	25/62.5	25/100		100			30	
				DUESSELDORF	28567	ILS/DME	05L IDNE	TRD 491054N 002805W 491024N 002650W TRD 465445N 001757E	233	25/62.5	25/100		100			29	
				CAEN/CARPIQUET	3634	ILS/DME	31L CN	TRD 463540N 011853E TRD 490557N 020241E	125	25/62.5	23/100		100			29	
				POITIERS/BIARD	1325	ILS/DME	21 PT	TRD 490525N 020143E TRD 513700N 010500W	31	25/62.5	23/100		100			29	
				PONTOISE	4693	ILS/DME	5 CVN	TRD 490525N 020143E TRD 513700N 010500W	225	25/62.5	25/100		100			29	
			G	BENSON	5949	ILS/DME	19 IBO	TRD 532741N 010041W Alt=67	7	25/62.5	25/100		100			27 MIL	
				DONCASTER SHEFFIELD	6267	ILS/DME	20 IFNL	TRD 532900N 005952W 532830N 010007W 532830N 010007W 532925N 005846W 532801N 010024W	18	25/62.5	25/100		100			27	
				RODOS/DIAGORAS	6268	ILS/DME	2 IFIN	TRD 362400N 280400E TRD 405248N 141634E 405328N 141757E 405329N 141756E	198	25/62.5	25/100		100			27	
			GRC	RODOS/DIAGORAS	5293	ILS/DME	25 IRDO	TRD 362400N 280400E TRD 405248N 141634E 405328N 141757E 405329N 141756E	70	25/62.5	25/100		100			27	
	NAPOLI/CAPODICHINO	55065	ILS/DME	24 NAP	TRD 430638N 123106E 430525N 123046E 430625N 123048E Alt=213,204	56	25/62.5	25/250		250			28				
	PERUGIA	6969	ILS/DME	1 IPE	TRD 375516N 122820E 375428N 122945E Alt=2,12	193	25/62.5	25/250		250			28				
	TRAPANI/BIRGI	5068	ILS/DME	31L TRA	TRD 524129N 085650W 524232N 085448W	126	25/62.5	25/100		100			28 MIL				
	SHANNON/SHANNON	5408	ILS/DME	24 ISW	TRD 591201N 101530E 591043N 101530E 591042N 101530E	52	25/62.5	25/100		100			27				
NOR	TORP	6024	ILS/DME	36 SFJ	TRD 591042N 101530E TRD 474100N 225300E	179	25/62.5	25/100		100			29				
ROU	SATU MARE	6843	ILS/DME	19 ISM		10	25/62.5	25/100		100			29				
	ISTANBUL/ISTANBUL HAVALIMANI	67266	ILS/DME	18R IUCD	TRD 411745N 284523E TRD 443212N 073649E 443314N 073738E Alt=388,373	0	25/62.5	25/100		100			27				
I	CUNEO/LEVALDIGI	2180	ILS	21 LEV	@380436N 153843E Alt=18	32	25/62.5			62							
111.000	47X		I	REGGIO CALABRIA	6834	VOR/DME	RCA	Alt=18		80/250	80/250		250	17		38	
111.050	47Y		I	BERGAMO/O RIO AL SERIO	71045	VOR/DME	BRM	Alt=18		60/250	60/250		250	20		37	
			POL	SZCZYTNO/SZYMAN	30118	VOR/DME	SYN	533626N 210033E		100/500	100/500		500	17		37	
			UNK	PRISTINA	28316	VOR/DME	BKPR	423331N 210214E TRD 471531N 112028E 471535N 112113E		110/400	110/400		400	17		37	
111.100	48X		AUT	INNSBRUCK/INNSBRUCK	70	ILS/DME	26 OEV	TRD 391201N 452632E 391046N 452800E	74	25/62.5	25/150		150			27	
			AZE	NAKHICHEVAN	5368	ILS/DME	32L INL	TRD 521905N 103215E 521916N 103416E	138	25/62.5	25/100		100			29	
			D	BRAUNSCHWEIG ALLGAU	6861 7110	ILS/DME ILS/DME	26 6	BWG IAME	TRD 478900N 101500E TRD 505304N 070724E	85 239	25/62.5 25/62.5	25/100 25/100		100 100			29 29
				KOLN-BONN	6826	ILS/DME	32R IKEN	TRD 505132N 070950E TRD 491300N 070600E	138 87	25/62.5 25/62.5	25/100 25/100		103 100			29 29	
				SAARBRUCKEN	57926	ILS/DME	27 DSB	TRD 561822N 103526E TRD 561801N 103811E	87	25/62.5	25/100		100			27	
			DNK	AARHUS	5548	ILS/DME	28L TR		100	25/62.5	25/100		100			29	
			E	CIUDAD REAL	6655	ILS/DME	10 ICR	TRD 385100N 035800W TRD 372500N 055431W		25/62.5	25/100		100			29	
				SEVILLA	6698	ILS/DME	9 ISE	TRD 372500N 055431W TRD 385248N 012326E	270	25/62.5	25/100		100			29	
				IBIZA	6662	ILS/DME	6 IBI	TRD 385202N 012145E	242	25/62.5	25/100		100			29	

operational in 2014, old 3D369 will be deleted

2021 TO BECOME OP

DHMI

Future requirement

COM3- List of national and international assignments in Frequency order

VHF Channel	DME Channel	MLS Channel	CTY	Location	SAFIRE Ref	Service	Rwy Designat Id or	Co-ordinates	TRD	VHFDOC	DMEDOC	MLSDOC	MaxFL	VHF EIRP	DME EIRP	Remarks
111.100	48X	F	CARCASSONNE	4103	ILS/DME	10 CS	TRD 431254N 021910E 431304N 021756E	276	25/62.5	23/100			100			29
				1103	ILS/DME	26 CF	TRD 454704N 030846E 454722N 031100E	82	25/62.5	23/100		100		29		
					33785	ILS/DME	12 SA	TRD 615608N 285802E 615647N 285533E	306	25/62.5	40/150		150	21		36
					4953	ILS/DME	03R IATR	TRD 375700N 235800E	217	25/62.5	25/100		100			27
					7270	ILS/DME	21L IEVL	TRD 375500N 235600E	37	25/62.5	25/100		100			27
								TRD 435219N 510359E 435119N 510817E								
					63670	ILS/DME	30 ITA	TRD 444259N 653658E	303	25/62.5	25/100		100			24
					63795	ILS/DME	5 IKZ	TRD 444202N 653447E 565404N 235803E	61	25/62.5	25/100		100			24
					6131	ILS/DME	18 IRV	TRD 565404N 235814E 703547N 294052E 703500N 294000E	5	25/62.5	25/100		100			27
					4724	ILS/DME	21 BT	TRD 703605N 294156E 522308N 174905E	44	25/62.5	25/100		100			27
					4924	ILS/DME	28L IPW	TRD 522335N 175221E 583509N 161626E	107	25/62.5	25/100		100			29
					5193	ILS/DME	9 KSP	TRD 583514N 161412E	271	25/62.5	25/100		100			27
					30265	ILS/DME	9 CKL	TRD @455400N 153300E	270	25/62.5	25/100		100			27 MIL - operational 2015
					71666	ILS/DME	1 TBL	TRD 365209N 101358E 365031N 101323E	193	25/62.5	25/100		100			20
					7069	ILS/DME	17L IISB	TRD 405805N 284834E 405938N 284826E	358	25/62.5	25/100		100			27
					29953	ILS/DME	7 IHR	TRD 495543N 361842E	263	25/62.5	25/100		100			29
					66705	ILS/DME	13 IWI	TRD 491458N 283627E 462635N 303954E	318	25/62.5	25/100		100			29
					69985	ILS/DME	34 IOE	TRD 462635N 303954E AI=55	339	25/62.5	25/100		100			29
					68965	ILS/DME	34 ODA	TRD 535628N 300702E AI=55	339	25/62.5	25/100		100			29
					6740	ILS	13 IUF	TRD 535739N 300456E	316	25/62.5			62			
					1303	ILS	25 LBW	TRD 485831N 022645E 514100N 014700W	68	25/62.5			62			
					1647	ILS	27 IFFA	TRD 514100N 014700W AI=91	88	25/62.5			62			MIL
					1648	ILS	9 IFFB	TRD 514100N 014700W AI=91	268	25/62.5			62			MIL
					5414	ILS	6 SL	TRD 521800N 044700E	238	25/62.5			62			To be discussed Planned
					2336	ILS		ALL ISRAEL (LANDY)		25/62.5			62			
					3239	ILS	24	TRD 553600N 371700E		25/62.5			62			
					3250	ILS	5	TRD 532000N 501000E		25/62.5			62			
					4522	ILS	13 IWI	TRD 491350N 283749E 491458N 283627E	318	25/62.5			62			
					4516	ILS	19 ISF	TRD 450200N 338900E 505306N 042926E	14	25/62.5			62			
111.150	48Y				4617	ILS/DME	19 IBM	TRD 500703N 141642E 500615N 141349E	14	25/62.5	25/100		100			29
					4702	ILS/DME	6 PH	TRD 513716N 083802E 513640N 083621E	245	25/62.5	25/100		112	14		27
					6817	ILS/DME	6 IPLE	TRD 500135N 083146E 500224N 083453E	237	25/62.5	25/100		100			operational in 2013
					6850	ILS/DME	29L IFSW	TRD 545512N 094700E	70	25/62.5	25/100		100			30
					776	ILS/DME	32 CIM	TRD 545729N 094755E 492641N 020806E	139	25/62.5	25/100		100			27
					6028	ILS/DME	12 BVT	TRD 492719N 020628E	304	25/62.5	25/250		250			29
					4038	ILS/DME	29 BEI	TRD 444958N 004358W 444931N 004214W	106	25/62.5	23/100		100			29
					4221	ILS/DME	31R MPV	TRD 432659N 051147E 432557N 051309E	134	25/62.5	25/100		100			29
					1418	ILS/DME	17 TY	TRD 481848N 040105E 481938N 040051E	354	25/62.5	23/100		100			29
					4718	ILS/DME	26 IRY	TRD 540452N 043826W 540500N 043659W	78	25/62.5	25/100		100			27
					4719	ILS/DME	8 IRH	TRD 540452N 043722W 540453N 043748W	258	25/62.5	25/100		100			27
					6264	ILS/DME	27 ILSR	TRD 513020N 000232E 513020N 000348E	93	25/62.5	25/100		100			29
					6265	ILS/DME	9 ILST	TRD 513021N 000319E 513022N 000251E	273	25/62.5	25/100		100			29
					6049	ILS/DME	25 ICNY	TRD 530600N 001000W AI=15	71	25/62.5	25/100		100			27 MIL
					50646	ILS/DME	25 ISAT	TRD 512407N 032658W 512422N 032530W	75	25/62.5	25/100		100			27 MIL
					6387	ILS/DME	3 IDKT	TRD 380600N 234600E 452727N 184948E		25/62.5	25/100		100			27 MIL
					55105	ILS/DME	11 ISJ	TRD 452752N 184800E	290	25/62.5	100/500		500			39

COM3- List of national and international assignments in Frequency order

VHF Channel	DME Channel	MLS Channel	CTY	Location	SAFIRE Ref	Service	Rwy Designat Id or	Co-ordinates	TRD	VHFDOC	DMEDOC	MLSDOC	MaxFL	VHF EIRP	DME EIRP	Remarks			
								385912N 170458E 390013N 170449E 390012N 170451E											
111.150	48Y		I	CROTONE	6831	ILS/DME	35 ICRT	Alt=156,158								27 Planned			
				GROSSETO	61248	ILS/DME	3 GRS	TRD 424626N 110452E TRD 652754N 121330E	211	25/62.5	25/100					100			
			NOR	BROENNOEYSUND	4472	ILS/DME	4 BY	652720N 121231E	219	25/62.5	25/100					100			
			S	SATENAS	29672	ILS/DME	1 IBT	TRD 582628N 124248E Alt=65	185	25/62.5	25/100					100	DME: Ongoing installation and soon to be in operation.		
				DUBENDORF	6102	ILS/DME	29 IDU	TRD 472409N 083749E 472344N 083934E	109	25/62.5	25/100						100	ML airport with future CIV use	
111.200	49X		TUR	USAK	6178	ILS/DME	27 IUSK	384100N 292700E		25/62.5	50/250					250	27		
			F	PARIS/ORY	1310	VOR/DME	OL	@484400N 022300E		60/250	60/250					250	17	36	
			I	LATINA	2176	VOR/DME	LAT	413228N 125505E Alt=18		60/250	60/250					250	17	38	
			IRL	DUBLIN/DUBLIN	5575	VOR/DME	DAP	532525N 061810W		150/350	150/350					350	17	39	
			ROU	CLUJ	2791	VOR/DME	CLJ	464800N 234700E		175/500	175/500					500	20	37	
			TUR	CANAKKALE	4374	VOR/DME	CNK	408087N 262539E		50/250	50/250					250	17	37	
				KONYA	4996	VOR/DME	KNY	375948N 323353E		60/250	60/250					250	17	37	
				MUS	3170	VOR/DME	MUS	384458N 413939E		100/400	100/400					400	17	37	
111.250	49Y		F	GROSTENQUIN	1158	VOR/DME	GTQ	@485911N 064258E		100/500	100/500					500	17	37	
			HRV	PULA	6578	VOR/DME	PUL	445333N 135505E Alt=66		100/500	100/500					500	17	37	
111.300	50X		AZE	GANJA	72195	ILS/DME	12 IGL	TRD 404342N 462017E 404450N 461831E	308	25/62.5	25/100					100	29		
				HERINGSDORF	477	ILS/DME	28 IHEW	TRD 535232N 140948E 535241N 140904E	106	25/62.5	25/100						100	29	
				DORTMUND	30146	ILS/DME	24 IDWW	TRD @513048N 073553E 513118N	61	25/62.5	25/100						100	29	operational in 2016, old 3D358 will be deleted
			F	CHALONS/VATRY	4794	ILS/DME	10 CVD	TRD 484620N 041250E 484639N 040948E	281	25/62.5	25/250					250	29		
				ISTRES	4732	ILS/DME	15 IST	TRD 433016N 045613E 433208N 045459E	333	25/62.5	25/250					250	29		
				LYON/BRON	4107	ILS/DME	34 LY	TRD 454415N 045623E 454328N 045651E	163	25/62.5	25/100					100	29		
			FIN	ENONTEKIO	4869	ILS/DME	21 ET	TRD 682110N 232421E 682206N 232554E	35	25/62.5	25/100					100	27		
				CAMBRIDGE	4625	ILS/DME	23 ICMG	TRD 521156N 000947E 521226N 001055E 521226N 001054E	50	25/62.5	25/100					100	27		
				YEUVILTON	6052	ILS/DME	27 IYEO	TRD 510900N 023000W Alt=20	83	25/62.5	25/100					100	27	MIL	
			GRC	KALAMATA	4965	ILS/DME	35 IKTL	TRD 370500N 220100E	169	25/62.5	25/100					100	27	MIL	
				ELEFSIS	5053	ILS/DME	36 IEF5	TRD 380400N 233300E	178	25/62.5	25/100					100	27	MIL	
			HNG	KECSKEMET	9001	ILS/DME	12 KEW	TRD 465400N 194600E TRD 352947N 123624E 352945N 123625E	303	25/62.5	25/100					100	29	MIL	
			I	LAMPEDUSA	5855	ILS/DME	26 ILMA	Alt=14,13	79	25/62.5	25/100					100	28		
				OLBIA/COSTA SMERALDA	6300	ILS/DME	23 IOL	TRD 405330N 093014E 405407N 093134E 405405N 093136E	54	25/62.5	25/100					100	28		
					66125	ILS/DME	23 IOLB	Alt=11,6	54	25/62.5	25/100					100	28		
			KAZ	URALSK	63866	ILS/DME	4 ISK	TRD 510949N 513403E 510843N 513158E	52	25/62.5	25/100					100	24		
				ALMATY	63667	ILS/DME	23R IAA	TRD 432038N 770105E 432211N 770402E	236	25/62.5	25/100					100	24		
			MNE	TIVAT/TIVAT	3305	ILS/DME	32 TIV	TRD 422345N 184429E	139	25/62.5	25/100					100	29	No GP	
			NOR	OSLO/GARDERMOEN	4063	ILS/DME	19R GSW	TRD 601056N 110419E 601250N 110517E TRD 661939N 141740E 662000N 141800E	16	25/62.5	25/100					100	27		
				MO I RANA/ROSSVOLL	2577	ILS/DME	31 RA	TRD 661939N 141741E 521144N 213748E	140	25/62.5	25/100					100	27		
			POL	MINSK MAZOWIECKI	4923	ILS/DME	26 IMM	TRD 521140N 214009E 521140N 214009E	90	25/62.5	25/100					100	29	modification EIRP - RAFT11WP18	
				ZIELONA GORA	7164	ILS/DME	24 IZGA	TRD 520757N 154642E 520828N 154842E	65	25/62.5	25/100					100	29		
				CEWICE	5423	ILS/DME	25 ICE	TRD 542246N 174420E 542509N 174638E 542510N 174638E	76	25/62.5	25/100					100	29	modification EIRP - RAFT11WP18	
			S	ANGELHOLM	2824	ILS/DME	14 DB	TRD 561658N 125212E 561748N 125057E	316	25/62.5	25/100					100	27		
				STOCKHOLM/SAVSTA	2944	ILS/DME	8 WEK	TRD 584724N 165558E 584716N 165314E	263	25/62.5	25/100					100	29		
			TUR	ISTANBUL/ATATURK	7070	ILS/DME	35R IYES	TRD 405954N 284830E 405819N 284829E	178	25/62.5	25/100					100	27		
				KUTAHYA	7168	ILS/DME	31 IZFE	TRD 390718N 300655E 390613N 300823E	131	25/62.5	25/100					100	27		
			UKR	KYIV/BORISPOL'	73927	ILS/DME	18L IBI	TRD 501558N 305411E TRD 282553N 135152W	3	25/62.5	25/100					100	20		
			CNR	FUERTEVENTURA	9025	ILS/DME	19 IFA	TRD 282724N 135146W 282724N 135146W	2	25/62.5	25/100					100	27		
			D	HAHN	445	ILS	21 IHAW	TRD 495543N 071439E 495723N 071610E	32	25/62.5						62			

VHF Channel	DME Channel	MLS Channel	CTY	Location	SAFIRE Ref	Service	Rwy Designat Id or	Co-ordinates	TRD	VHFDOC	DMEDOC	MLSDOC	MaxFL	VHF EIRP	DME EIRP	Remarks																
111.300			F	EVREUX/FAUVILLE	1145	ILS	22 EVX	TRD 490059N 011215E	40	25/62.5																						
								490211N 011357E																								
			RUS	SANKT-PETERBURG/PULK	1291	ILS	25 OAN	3261	ILS	28	TRD 475859N 014432E	69	25/62.5																			
											475922N 014619E																					
											594900N 301700E																					
											556800N 372500E																					
UKR	KYIV/BORISPOL'	3200	ILS	18L IBI	3234	ILS	28	TRD 501859N 305412E	3	25/62.5																						
								302128N 305416E																								
111.350	50Y		CZE	NAMEST	4781	ILS/DME	31 LA	TRD 491031N 160627E	130	25/62.5	25/100			115	14	27																
								490936N 160800E																								
								D									FRANKFURT/MAIN	6909	ILS/DME	25R IFNW		ILS/DME		TRD 500209N 082929E	70	25/62.5	25/100					
																								500245N 083142E								
								F									BASTIA/PORETTA	5713	ILS/DME	34 BAS		ILS/DME		TRD 423405N 092838E	163	25/62.5	23/100					
																								423242N 092919E								
																	VILLACOUBLAY	1429	ILS/DME	9 VVE		ILS/DME		TRD 484629N 021259E	268	25/62.5	25/100					
																								484633N 021137E								
																	BIARRITZ/ANGLET	1031	ILS/DME	27 BZ		ILS/DME		TRD 432806N 013320W	89	25/62.5	23/100					
																								432803N 013047W								
																	CASTRES/MAZAMET	1071	ILS/DME	14 EN		ILS/DME		TRD 433252N 021755E	321	25/62.5	23/100					
																								433338N 021710E								
								G									SOUTHEND	1827	ILS/DME	23 IND		ILS/DME		TRD 513326N 004048E	54	25/62.5	25/100					
																								513426N 004151E								
																	PER	5811	ILS/DME	30 GPR		ILS/DME		TRD 513416N 004130E	234	25/62.5	25/100					
																								513433N 004218E								
								I									BARI/PALESE	5504	ILS/DME	7 BAP		ILS/DME		TRD 410835N 164637E	247	25/62.5	25/63					
																								410813N 164501E								
								IRL									DUBLIN/DUBLIN	5407	ILS/DME	28 IDW		ILS/DME		TRD 532522N 061744W	95	25/62.5	25/100					
																								532510N 061518W								
								NOR									HAMMERFEST	2548	ILS/DME	5 HA		ILS/DME		TRD 704036N 233918E	236	25/62.5	25/100					
																								704032N 233319E								
								S									STOCKHOLM/MARLANDA	4280	ILS/DME	36 SL		ILS/DME		TRD 585342N 053814E	179	25/62.5	25/100					
585226N 053824E																																
	SALEN	4736	ILS/DME	19L USA		ILS/DME		TRD 593726N 175659E	10	25/62.5	25/100																					
								593644N 175736E																								
TUR	ISTANBUL/ISTANBUL HAVALIMANI	59646	ILS/DME	33 SAL		ILS/DME		TRD 611035N 124906E	147	25/62.5	25/100																					
								610929N 125045E																								
BEL	BEAUVECHAIN	4864	ILS	22R IBBE		ILS		TRD 411544N 284525E	180	25/62.5	25/100																					
								410449N 044510E																								
	FETESTI	5290	ILS	04L IBEV		ILS		TRD 504500N 044637E	39	25/62.5																						
								504500N 044500E																								
111.400	51X		ROU	TULLN-LANGELENBARN	9013	ILS	18 IFN	TRD 442200N 274300E	0	25/62.5																						
								442200N 274300E																								
E	VILLAFRIA	6525	VOR/DME	BUR		VOR/DME		TRD 481834N 155847E	25	100	25/100				17	28																
								481834N 155847E																								
GRC	KARPATOS	6361	VOR/DME	KPC		VOR/DME		TRD 422116N 033649W	60	500	60/500				20	37																
								422116N 033649W																								
I	CAMPAGNANO	2130	VOR/DME	CMP		VOR/DME		TRD 352500N 270900E	200	500	200/500				23	37																
								352500N 270900E																								
D	KITZINGEN	512	VOR	KTG		VOR		@420726N 122254E	70	250	70/250				17	37																
								Alt=428																								
F	CANNES/TANNERON	1066	VOR	CNM		VOR		TRD 484500N 010300E	25	100	25/100																					
								484500N 010300E																								
111.450	51Y		F	DJON/LONGVIC	4740	VOR/DME	DJL	@43337N 065215E	80	500	80/500																					
								43337N 065215E																								
MKD	SINKO	4334	VOR/DME	SIN		VOR/DME		@471615N 050550E	100	500	100/500																					
								471615N 050550E																								
POL	WARSAWA/OKECIE	43025	VOR/DME	WAA		VOR/DME		TRD 418851N 222156E	80	500	80/500																					
								418851N 222156E																								
111.500	52X		BLR	ORSHA	65886	ILS/DME	23 IBS	TRD 515738N 210716E	100	500	100/500																					
								515738N 210716E																								
CZE	BRNO	226	ILS/DME	27 BO		ILS/DME		TRD @442550N	60	25/62.5	25/100																					
								442550N																								
D	WESTERLAND	688	ILS/DME	32 IWES		ILS/DME		TRD 301838E Alt=194,189	97	25/62.5	25/100																					
								301838E Alt=194,189																								
DNK	KOBENHAVN/ROSKILDE	757	ILS/DME	11 KV		ILS/DME		TRD 490912N 164015E	27	25/62.5	25/100																					
								490912N 164015E																								
E	MADRID/BARAJAS	6674	ILS/DME	18L IML		ILS/DME		TRD 545515N 081952E	144	25/62.5	25/100																					
								545515N 081952E																								
	MAHON/MENORCA	6678	ILS/DME	19 MAO		ILS/DME		TRD 402954N 033333W	296	25/62.5	25/100																					
								402954N 033333W																								
	SANTIAGO/SANTIAGO	914	ILS/DME	35 ISO		ILS/DME		TRD 545424N 082104E	360	25/62.5	25/100																					
								545424N 082104E																								
	VALENCIA	6701	ILS/DME	12 VLN		ILS/DME		TRD 403132N 033329W	9	25/62.5	25/100																					
								403132N 033329W																								
	BARCELONA	6645	ILS/DME	25L BLW		ILS/DME		TRD 398509N 041258E	166	25/62.5	25/100																					
								398509N 041258E																								
F	LYON/ST EXUPERY	1217	ILS/DME	35R LSN		ILS/DME		TRD 425447N 082515W	9	25/62.5	25/100																					
								425447N 082515W																								
FIN	HELSINKI-VANTAA	5404	ILS/DME	04R HG		ILS/DME		TRD 425317N 082439W	166	25/62.5	25/100																					
								425317N 082439W																								

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VHF Channel	DME Channel	MLS Channel	CTY	Location	SAFIRE Ref	Service	Rwy Designat	Id or	Co-ordinates	TRD	VHFDOC	DMEDOC	MLSDOC	MaxFL	VHF EIRP	DME EIRP	Remarks
111.500	52X	G		NEWCASTLE/NEWCASTLE	1786	ILS/DME	7	INC	TRD 550235N 014015W	245	25/62.5	25/100		100		29	
									550203N 014156W								
									550213N 014121W								
									TRD 550159N 014228W								
									550222N 014046W								
									550213N 014121W								
									393900N 222700E								
									382000N 233300E								
									TRD 472700N 191300E								
									532506N 061454W								
									532603N 061543W								
									TRD 564644N 245114E								
TRD 702912N 220810E																	
702909N 220832E																	
702923N 220757E																	
TRD 620948N 060123E																	
621000N 060100E																	
TRD 653600N 191507E																	
653514N 191743E																	
TRD 574607N 140432E																	
574504N 140347E																	
TRD 671419N 230615E																	
671457N 230331E																	
TRD 405954N 284822E																	
405819N 284828E																	
TRD 475111N 351923E																	
475231N 351903E																	
TRD 533657N 095732E																	
533807N 095939E																	
492600N 073700E																	
TRD 492617N 073730E																	
492614N 073448E																	
TRD 490710N 094618E																	
490700N 094717E																	
TRD 511752N 064724E																	
511702N 064528E																	
Alt=42,37																	
TRD 624153N 224911E																	
624107N 225035E																	
TRD 452802N 184734E																	
452731N 184920E																	
TRD 445335N 135401E																	
445334N 135608E																	
TRD 654750N 150538E																	
654745N 150527E																	
TRD 511214N 025403E																	
511148N 025142E																	
TRD 501225N 125402E																	
501204N 125533E																	
TRD 500153N 083146E																	
500235N 083459E																	
TRD 570536N 094939E																	
570550N 095217E																	
TRD 431744N 025342W																	
431815N 025521W																	
431816N 025520W																	
TRD 473503N 073200E																	
473653N 073037E																	
TRD 492218N 008086E																	
492150N 008943E																	
TRD 511610N 004745W																	
511641N 004825W																	
511636N 004641W																	
TRD 511656N 004524W																	
511630N 004656W																	
511636N 004641W																	
TRD 574300N 032000W																	
Alt=6																	
TRD 532105N 021613W																	
531958N 021821W																	
531959N 021621W																	
TRD 521900N 044440E																	
521909N 044731E																	
521911N 044731E																	
TRD 505357N 054628E																	
505502N 054628E																	
505521N 054647E																	
TRD 505519N 054650E																	
505417N 054540E																	
505521N 054647E																	
TRD 414858N 121536E																	
414856N 121634E																	
414856N 121635E																	
TRD 460100N 110800E																	

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VHF Channel	DME Channel	MLS Channel	CTY	Location	SAFIRE Ref	Service	Rwy Designat Id or	Co-ordinates	TRD	VHFDOC	DMEDOC	MLSDOC	MaxFL	VHF EIRP	DME EIRP	Remarks																		
111.550	52Y		POL	SWIDWIN	4949	ILS/DME	29 ISN	TRD 534746N 154806E 534719N 155023E	111	25/62.5	25/100		100		29	modification EIRP - RAFT11WP18																		
				MALACKY	4912	ILS/DME	2 RP	TRD 482300N 170600E TRD 521639N 090400E									17	25/62.5	25/250	250	27 MIL													
111.600	53X		D	BUCKEBURG	6073	ILS	26 IBBW	521643N 090532E	78	25/62.5	40/250	40/250	62	250	17	28 TVOR - MIL	MIL																	
				ANDRAVIDA	1893	VOR/DME	AND	376600N 211700E										40/250	40/250	250	17	27 TVOR - MIL												
				ALEXANDRIA	6064	VOR/DME	AXE	403900N 224600E										40/250	40/250	250	17	27 TVOR - MIL												
				SAMOS	1967	VOR/DME	SAM	374100N 265400E										50/250	50/250	250	17	28 TVOR - MIL												
				KALMAR	2868	VOR/DME	KAL	@564107N 161703E										160/500	160/500	500	17	37												
111.650	53Y		F	PONTOISE	1330	VOR	PON	@490546N 020209E	60/500	40/250	60/250	50/250	500	17	37																			
				CHALONS/VATRY	4078	VOR/DME	CAV	484652N 040849E										40/250	40/250	250	17	37												
				MONT-DE-MARSAN	5859	VOR/DME	LGH	435439N 002942W										60/250	60/250	250	20	34												
				SKIATHOS	5528	VOR/DME	SKT	391100N 233000E										50/250	50/250	250	17	27 Planned												
				ALGHERO/FERTILIA	6418	VOR/DME	AEA	403817N 081730E Alt=23										40/250	40/250	250	17	38												
				WROCLAW	6919	VOR/DME	WCL	510534N 165508E										80/400	80/400	400	20	37												
				ANTALYA	5532	VOR/DME	LRA	365238N 304820E										40/250	40/250	250	17	37												
				ISTANBUL/YENI HAVALIMANI	39415	VOR/DME	UHO	411813N 284640E										60/500	60/500	500	23	37 DHMI												
				111.700	54X		AZE	NAKHICHEVAN										72191	ILS/DME	14R INR	TRD 391031N 452820E 391144N 452648E	318	25/62.5	25/100		100	29							
								BAKUIHEYDAR ALIYEV										96	ILS/DME	34 IBN	TRD 402945N 500144E 402731N 500220E									166	25/62.5	25/100	100	29
HOLDZDORF	6221	ILS/DME	27 IHDW					TRD 514608N 130834E 514559N 131048E	93	25/62.5	25/100	100	34	MIL																				
ROVANIEMI	5608	ILS/DME	21 RO					TRD 663306N 254818E 663428N 255043E	37	25/62.5	25/100	100	27																					
UST-KAMENOGORSK	63879	ILS/DME	12 IUS					TRD 500122N 823107E 500236N 822907E	131	25/62.5	25/100	100	24																					
NUR-SULTAN	63716	ILS/DME	22 IAK					TRD 510019N 712621E 510151N 712854E	225	25/62.5	25/100	100	24																					
SHYMKENT	63846	ILS/DME	10 IEN					TRD 422134N 693005E 422202N 692731E	106	25/62.5	25/100	100	24																					
KOSTANAY	63788	ILS/DME	15 IKT					TRD 531121N 633343E 531253N 633230E	157	25/62.5	25/100	100	24																					
KARAGANDA	63751	ILS/DME	23 IKA					TRD 493937N 731823E 494040N 732115E	238	25/62.5	25/100	100	24																					
AKTOBE	63705	ILS/DME	13 IAT					TRD 501348N 871348E 501513N 871126E	135	25/62.5	25/100	100	24																					
UKR			KHARKIV					29954	ILS/DME	25 IHA	TRD 495531N 361614E 495544N 361810E Alt=0	83	25/62.5	25/100		100	29																	
								KYIV/ZHULYANY	6846	ILS/DME	8 IKI									TRD 502400N 302627E Alt=0	266									25/62.5	25/100	100	29	
D			PADERBORN/LIPPSTAD					628	ILS	6 IPLE	TRD 513700N 083800E	25/62.5					62		to be deleted 2013															
								LUBECK	548	ILS	25 ILUW									TRD 534805N 104157E 534829N 104337E	72									25/62.5		62		
DNK			BILLUND					729	ILS	9 BIL	TRD 564400N 091100E	220	25/62.5				62		MIL															
				BOBOC	5471	ILS	4 IBO	TRD 451300N 265900E	25/62.5		62																							
RUS			KAZAN	3221	ILS	29	553600N 491700E	25/62.5					62																					
				MINERALNYE VODY	3225	ILS	12									441500N 430000E	25/62.5		62															
				MOSKVA/VNUKOVO	3241	ILS	2									553600N 371700E	25/62.5		62															
S			LJUNGBYHED	2891	ILS	29L DA	TRD 560453N 131224E 560529N 131224E	114	25/62.5			62																						
				ADANA/INCIRLIK	74029	ILS	23 IDNA								TRD 370034N 352608E	53	25/62.5		62															
UKR			DONETSK	4493	ILS	26 IDO	TRD 480359N 374101E	89	25/62.5			62																						
				TASHKENT	5593	ILS	08R IZV								TRD 411500N 691800E	25/62.5		62																
111.750	54Y		BEL	ANTWERPEN/DEURNE	107	ILS/DME	29 IAD	TRD 511134N 042704E 511116N 042806E	110	25/62.5	25/100		100	29																				
					63986	ILS/DME	11 IADO	TRD 511130N 042735E TRD 495659N 152203E									290	25/62.5	25/100	100	29													
				CZE	CASLAV	4327	ILS/DME	31 CF									TRD 495571N 152323E TRD 520818N 074208E	137	25/62.5	25/100	110	14	27	MIL										
				D	MUNSTER/OSNABRUCK	6856	ILS/DME	7 IMOE									520801N 074208E	251	25/62.5	25/100	100	29												
																									FRANKFURT/MAIN	6910	ILS/DME	07L IFNE	TRD 500250N 083222E 500220N 083000E	250	25/62.5	25/100	100	30
				E	MURCIA/REGION	7020	ILS/DME	23 IRM									374830N 010822W	50	25/62.5	25/100	100	27												
																									NANTES/ATLANTIQUE	69725	ILS/DME	21 NTA	TRD 470821N 013716W Alt=198	27	25/62.5	25/100	100	29
				F	PARIS/ORLY	4046	ILS/DME	26 OLW									TRD 484307N 022115E 484327N 022334E	74	25/62.5	23/100	100	29												
																									SAINT-YAN	4550	ILS/DME	33R SN	TRD 462629N 040017E 462429N 040103E	148	25/62.5	23/100	100	29
																									PERPIGNAN/RIVESALT	4544	ILS/DME	33 PL	TRD 424521N 025137E 424422N 025233E	148	25/62.5	23/100	100	29
				G	LIVERPOOL	1725	ILS/DME	27 ILQ									TRD 485800N 061400E	39	25/62.5	25/100	100	29												
																									METZNANCY	1242	ILS/DME	22 MLY	TRD 485918N 061540E 531958N 025214W	39	25/62.5	25/100	100	29
																										5135	ILS/DME	9 ILVR	TRD 531959N 025014W 531957N 025057W	86	25/62.5	25/100	100	27
				HOL	LEEUWARDEN	5030	ILS/DME	23 LWO									TRD 532004N 024951W 531956N 025142W	266	25/62.5	15/100	100	27												
																										5135	ILS/DME	9 ILVR	TRD 531304N 054405E 531351N 054546E	56	25/62.5	25/100	100	29

COM3- List of national and international assignments in Frequency order

VHF Channel	DME Channel	MLS Channel	CTY	Location	SAFIRE Ref	Service	Rwy Designat Id or	Co-ordinates	TRD	VHFDOC	DMEDOC	MLSDOC	MaxFL	VHF EIRP	DME EIRP	Remarks	
111.750	54Y	HOL	I	LEEUWARDEN	5031	ILS/DME	5 LWZ	TRD 531359N 054617E	236	25/62.5	25/100			100	29		
				LECCE	6504	ILS/DME	32 GAL	531318N 054428E 401400N 180800E								25/62.5	25/100
				VERONAVILLAFRANCA	41392	ILS/DME	4 IVRN	TRD 472736N 083359E 472850N 083226E	224	25/62.5	25/100			100	27		
			SUI	ZURICH	27123	ILS/DME	14 IKL	TRD 353808N 275526E								25/62.5	25/100
				BALIKESIR	27253	ILS/DME	36 IBRI	393631N 275526E	182	25/62.5	65/100			100	27		
			D	NORDHOLZ	6072	ILS	26 INOW	TRD 534553N 083801E								25/62.5	
				NURNBERG BALOC	7125	ILS	28 INUY	TRD 493004N 110310E TRD 512452N 121551E	99	25/62.5				62		LLZ ONLY, no GP	
				LEIPZIG	5890	ILS	08R ILSR	512447N 121231E								25/62.5	
111.800	55X	GRC	I	TANAGRA	1980	VOR/DME	TGG	382000N 233300E	40/250	40/250	40/250			250	17	28 TVOR	
				TARQUINIA	2258	VOR/DME	TAQ	421254N 114337E Alt=117 392600N 323000E									40/250
				HAYMANA	4791	VOR/DME	HAY	392612N 323034E	40/250	40/250				250	17	37	
			F	TARBES-LAHITTE	6318	VOR	LMB	@432800N 000106W									60/250
111.850	55Y	DNK	F	RAMME	5835	VOR/DME	RAM	@562842N 081119E	150/500	150/500	150/500			500	17	37	TVOR
				ALL FRANCE	4813	VOR	IVT	ALL FRANCE(LAND) TRD 404728N 474350E									
111.900	56X	AZE	CZE	QABALA	6987	ILS/DME	16 IQL	404918N 474323E	347	25/62.5	25/100			100	29		
				PRAHA/RUZYNE	5446	ILS/DME	24L PW	TRD 500600N 141400E TRD 561802N 103651E								25/62.5	25/100
				AARHUS	723	ILS/DME	10R AAR	561814N 103604E	280	25/62.5	25/100			100	29		
			DNK	HELSINKI-VANTAA	6635	ILS/DME	04L HTV	602000N 245655E								25/62.5	40/150
				KITTLA	5621	ILS/DME	34 KT	TRD 674252N 245017E 674136N 245057E	166	25/62.5	25/100			100	27		
				HOU	5622	ILS/DME	16 HOU	674136N 245057E								25/62.5	25/100
				GILZE-RJEN	5029	ILS/DME	28 GZO	TRD 513411N 045435E 513354N 045642E	102	25/62.5	25/100			100	27	Planned - Opposite RWY	
				ANCONA/FALCONARA	2099	ILS/DME	22 IFA	ALL FRANCE(LAND) TRD 433621N 132202E 433718N 132221E								70/500	
				TEL-AVIV/BEN-GURION AIRPORT	2364	ILS/DME	30 BD	Alt=15,10 320038N 345307E	43	25/62.5	25/100			100	29		
			ISR	KRZESINY	5203	ILS/DME	29 IKS	TRD 522022N 165636E 521945N 165844E								25/62.5	25/100
				PONTE DE SOR	29506	ILS/DME	21 PDS	TRD @391212N 080345W 391258N	24	25/62.5	25/100			100	24	31	
			POR	CLUJ	7134	ILS/DME	25 ICX	TRD 464700N 234000E TRD 553114N 132246E									25/62.5
				MALMO	2901	ILS/DME	17 NMS	553244N 132236E	353	25/62.5	25/100			100	29		
				STOCKHOLM/SKAVSTA	2945	ILS/DME	26 EKN	TRD 584711N 165239E 584726N 165523E								25/62.5	25/100
				TROLLHATTAN	2957	ILS/DME	33 TRH	TRD 581852N 122049E 581852N 122049E	146	25/62.5	25/100			100	27		
				ISTANBUL/ATATURK	7072	ILS/DME	23 IATA	TRD 405754N 284831E 405832N 285002E								25/62.5	25/100
				ANLIURFA/GAP	7095	ILS/DME	4 ISUR	TRD 372748N 385456E 372614N 385304E	222	25/62.5	25/100			100	27		
			UKR	MYKOLAIV	67846	ILS/DME	22 INK	TRD 470253N 315406E 550707N 301928E								25/62.5	25/100
				VANIEBSK	6756	ILS	23 IUU	TRD 560747N 302155E TRD 474039N 093138E	62	25/62.5				62			
			BLR	FRIEDRICHSHAFEN	421	ILS	6 IFHE	474003N 093018E TRD 473955N 092945E								25/62.5	
				TOULOUSE/ENAC	1407	ILS	7 AC	474030N 093104E	60	25/62.5	25/100			62			
			F	SANKT-PETERBURG/PULK	3262	ILS	10	433700N 012200E								25/62.5	25/100
				SAMARA/KURUMOCCH	3253	ILS	15	594900N 301700E 532000N 501000E	62	25/62.5	25/100			62			
			UKR	KYIV/ANTONOV	5682	ILS	15 ILC	TRD 503508N 301218E 503557N 301104E								25/62.5	25/100
111.950	56Y	E	F	CASTELLON	6654	ILS/DME	6 ICN	TRD 401235N 000345E 485943N 023244E	237	25/62.5	25/100			100	29		
				PARIS/CH. DE GAULLE	6859	ILS/DME	26R GAU	485949N 023552E ALL UNITED								25/62.5	25/100
				ALL UK	1532	ILS/DME		KINGDOM(LAND)(*) TRD 521925N 044649E	183	25/62.5	25/100			100	27		
				AMSTERDAM/SCHIPHOL	5162	ILS/DME	36R ABA	521737N 044633E 521737N 044630E								25/62.5	25/100
				AALESUND/VIGRA	6860	ILS/DME	24 VGR	TRD 623349N 060715E 623349N 060715E	65	25/62.5	25/100			100	27		
				OSLO/GARDERMOEN	4060	ILS/DME	01R ONE	TRD 601218N 110729E 601041N 110641E								25/62.5	25/100
				SWIDNIK	7163	ILS/DME	25 ISWI	TRD 511414N 224131E 511435N 224334E	77	25/62.5	25/100			100	29		
				ISTANBUL/ISTANBUL HAVALIMANI	67268	ILS/DME	17L IUCF	TRD 411756N 284337E ALL GERMANY(LAND)(*)								25/62.5	25/100
				ALL GERMANY	4525	ILS		ALL GERMANY(LAND)(*)		25/62.5				62		TEST - NOT USABLE ZITHIN 105 NM TO ILS AMSTERDAM	

VHF Channel	DME Channel	MLS Channel	CTY	Location	SAFIRE Ref	Service	Rwy Designat Id or	Co-ordinates	TRD	VHFDOC	DMEDOC	MLSDOC	MaxFL	VHF EIRP	DME EIRP	Remarks
112.000	57X		BUL	BURGAS	6225	VOR/DME	BGS	@423514N 273217E 423514N 273216E		190/500	190/500		500	20	37	
			DNK	ROENNE/REONNE	5815	VOR/TAC	ROE	@550356N 144531E 550343N 144521E		150/500	150/500		500	17	40	
			E	LEON	4767	VOR/DME	EON	423537N 053846W @364852N 042210W		60/500	60/500		500	20	37	DOPLER
				MALAGA	870	VOR/DME	MGA	364851N 042211W		120/500	120/500		500	23	38	
			I	SABADELL	6692	VOR/DME	SLL	413112N 020635E		60/500	60/500		500	20	37	DVOR
				ALL ITALY	2091	VOR/DME	ITA	ALL ITALY(LAND)		40/250	40/250		250	17	36	
			ISR	EILOT	2355	VOR/DME	LOT	293629N 345835E		30/500	30/500		500	17	28	
			MRC	MAHBAS	51587	VOR/DME	MHB	274218N 091402W		200/500	200/500		500	25	36	
			NOR	STOKKA	2637	VOR/DME	STO	655738N 122810E		60/250	60/250		250	17	27	
				KIRKENES	2557	VOR/DME	KIK	694326N 295209E		60/500	60/500		500	17	37	
			TUR	DENZLJCARDAK	7041	VOR/DME	CRD	374724N 294215E		80/40	80/40		40	17	27	
				MALATYA/ERHAC	4900	VOR/DME	ERH	382745N 380644E		80/400	80/400		400	17	37	
112.050	57Y		BEL	FLORA	4612	VOR/DME	FLO	505236N 050804E		50/250	50/250		250	17	37	
			E	GETAFE	6779	VOR/TAC	VGE	411723N 034534W		100/250	100/250		250	20	44	
			G	BERRY HEAD	6947	VOR/DME	BHD	@502358N 032937W		160/500	160/500		500	17	37	
			LVA	RIGA	5731	VOR/DME	RIA	565515N 235755E		195/500	195/500		500	13	37	RIGA airport Will be deleted after installation frequency change to 3LVA6418!
			SRB	BEOGRAD	9022	VOR/DME	BGD	444910N 201840E		150/500	150/500		500	20	37	
			TUR	ERZINCAN	5988	VOR/DME	EZN	395614N 385313E		50/250	50/250		250	17	27	
				HATAY	5992	VOR/DME	HTY	362147N 361725E		50/250	50/250		250	17	27	
				MANISAKULA	5987	VOR/DME	DEN	383441N 283610E		50/250	50/250		250	17	27	
112.100	58X		ALG	EL GOLEA	26	VOR/DME	MNA	303331N 025142E		200/500	200/500		500	17	37	
			D	FULDA	4291	VOR/DME	FUL	503533N 093420E @410746N 000956E		100/500	100/500		500	23	39	
			E	MAELLA	862	VOR/DME	MLA	410747N 000956E		100/500	100/500		500	23	43	
			G	POLE HILL	1806	VOR/DME	POL	@534438N 020612W		150/500	150/500		500	20	39	
			GRC	THESSALONIKI	4669	VOR/DME	TSL	@402700N 225900E		150/500	150/500		500	23	37	
			I	PISA/SAN GIUSTO	2220	VOR/DME	PIS	@434038N 102326E		80/500	60/500		500	17	38 MIL	
			MRC	LIAOUNEHASSAN 1ER	2462	VOR/DME	LAV	270334N 131305W		40/250	40/250		250	20	37	
			NOR	SVENSHEIA	2646	VOR/DME	SVA	@580504N 075430E		250/500	250/500		500	20	37	
			POR	SINTRA	2764	VOR/TAC	SRA	384945N 092024W		200/500	200/500		500	17	41	
			SVK	POPRADEK	3052	VOR/DME	PPD	490353N 202100E		60/500	60/500		500	17	37	
			TUR	ANKARA/ESENBAGA	6973	VOR/DME	ESB	400848N 330045E		25/100	25/100		100	17	27	
				BINGOL	6900	VOR/DME	BNG	385120N 403603E		25/100	25/100		100	17	27	
				HAKKARI/YUKSEKOVA	6902	VOR/DME	YKV	373257N 441433E		25/100	25/100		100	17	27	
112.150	58Y		ALB	KUKES	5773	VOR/DME	LKU	420200N 202400E		25/100	25/100		100	17	29	DVOR
			D	KOLN-BONN	5002	VOR/DME	KBO	505142N 070844E		25/200	40/200		200	23	39	
			SUI	SION	5841	VOR/DME	SIO	461256N 071720E		40/250	40/250		250	20	37	
			TUR	ELAZIG	5989	VOR/DME	ELG	383548N 391702E		50/250	50/250		250	17	27	
112.200	59X		ALG	MOSTAGANEM	39	VOR/DME	MOS	355355N 000811E		200/500	200/500		500	17	37	
			AUT	WAGRAM	85	VOR/DME	WGM	481926N 162927E @494854N 083229E		60/250	60/250		250	17	37	
			D	RIED	639	VOR/DME	RID	494854N 083229E		60/250	60/250		250	23	39	
			E	SALAMANCA	898	VOR/DME	BBI	410100N 052725W 416652N 031233E		40/250	40/250		250	23	37	
				BAGUR	6642	VOR/DME	BGR	416652N 031232E		100/500	100/500		500	20	37	
			I	TALLINN	3531	VOR/DME	TLL	592441N 245018E Alt=97		80/500	80/500		500	17	37	
			G	ISLE OF MAN/RONALDSWAY	1685	VOR/DME	IOM	@54401N 044549W		75/500	160/500		500	20	39	DOPLER Sector change
				JERSEY	1690	VOR/DME	JSY	@491316E 020246W		60/500	60/600		600	17	39	
			GRC	KARISTOS	3323	VOR/DME	KRO	380000N 243000E @403457N 142007E		100/500	100/500		500	17	37	
			I	SORRENTO	2256	VOR/DME	SOR	Alt=497		120/500	120/500		500	17	38	
			NOR	ANDOYA	2501	VOR/DME	AND	691716N 160829E		200/500	200/500		500	17	37	
			POL	SWIDNIK	4805	VOR/DME	SWI	511410N 224108E		100/500	100/500		500	20	37	
			POR	FUNCHAL	2734	VOR/DME	FUN	324450N 164220W		200/500	200/500		500	17	39	
			ROU	FLORESTI	2797	VOR/DME	FLR	443000N 254200E		150/500	150/500		500	23	37	
			TUN	DJERBAZARZIS	3069	VOR/DME	JBA	335238N 104618E		150/500	150/500		500	17	37	
			TUR	AFYON	3085	VOR/DME	KFK	384815N 303249E		150/500	150/500		500	17	37	
			D	MICHAELSDORF	5003	VOR/DME	MIC	541820N 110019E		60/500	60/500		500	23	37	
112.250	59Y		CZE	NERATOVICE	30606	VOR/DME	NER	502200N 143717E 452741N 091631E 452740N 091631E 452740N 091628E		80/500	80/500		500	20	37	
			I	MILANOLINATE	6197	VOR/DME	LIN	452741N 091628E		50/250	50/250		250	17	36	
			LUX	LUXEMBOURG/LUXEMBO	5610	VOR/DME	LUX	493822N 061450E		60/250	60/250		250	17	37	
			TUR	BALKHESIR	4574	VOR/DME	BRI	393754N 275544E		100/250	60/250		250	17	37	
			F	TOURS	27287	VOR	TSY	472700N 002800E		01-12-1930			30	17	37	INSTRUCTION AND MAINTENANCE
			ARM	YEREVAN/ZVARTNOTS	4004	VOR/DME	ZVR	@400849N 442017E @523341N 131715E		200/500	200/500		500	17	37	
			D	BERLINT/EGEL	4169	VOR/DME	TGL	523342N 131715E		100/500	100/500		500	23	39	
				MUNCHEN	4170	VOR/DME	MUN	481049N 114855E		80/500	80/500		500	23	39	
			E	PAMPLONA	6687	VOR/DME	PPN	@424402N 014207W		100/500	100/500		500	23	37	
			FIN	LUONET	1482	VOR/DME	LNE	622515N 253724E		60/500	60/500		500	17	37	
			GRC	LARISSA	1943	VOR/DME	LRS	393900N 222600E 380201N 131039E		40/250	40/250		250	17	37	TVOR - MIL
			I	PALERMO	2204	VOR/DME	PAL	Alt=1188		200/500	200/500		500	17	36	
			KAZ	ATYRAU	63725	VOR/DME	ATR	470838N 514805E		100/500	100/500		500	20	30	
			LVA	TUKUMS	6822	VOR/DME	TUK	565550N 231424E		100/500	100/500		500	13	37	
			MRC	TANTAN	34343	VOR/DME	TNN	285424N 110323W		200/500	200/500		500	17	37	
			NOR	FLORO	2539	VOR/DME	FLO	613454N 050113E		40/500	40/500		500	17	37	
			ROU	SUCEAVA	3359	VOR/DME	SCV	474000N 262200E		175/500	175/500		500	20	37	
			TUR	KUTAHYA	6903	VOR/DME	KTH	390624N 300805E		25/100	25/100		100	17	27	
				SIRNAK	6901	VOR/DME	RNA	372154N 420341E		25/100	25/100		100	17	27	
				MUT	3173	VOR/DME	MUT	365147N 331731E		150/500	150/500		500	17	37	

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112.300			F	REIMS/CHAMPAGNE	50145	VOR	REM	491842N 040243E		70/500			500	17		
			G	LONDON HEATHROW GBAS												
112.350			G	NORTH	29807	GBAS	LHRN	512844N 002733W		23/100			100	17		HEATHROW GBAS NORTH
112.400	71X		BIH	DERVENTA	5427	VOR/DME	DER	445903N 175810E		80/500	80/500		500	20	32	
			BUL	VARNA	6398	VOR/DME	WRN	@431352N 274902E Alt=50		160/500	160/500		500	20	37	
			E	AVILES/ASTURIAS	6510	VOR/DME	VES	@433325N 060026W 433326N 060026W		200/500	200/500		500	23	37	
				CORDOBA	4766	VOR/DME	CDB	373045N 045042W		40/250	40/250		250	17	27	
			EST	KURESSARE	3532	VOR/DME	KRS	581342N 223055E Alt=3		50/500	80/500		500	17	37	TVOR
			F	EVREUX/FAUVILLE	1146	VOR/TAC	EVX	@490154N 011315E 490143N 011251E		150/500	150/500		500	17	40	
				NICE/COTE D'AZUR	1279	VOR/DME	NIZ	@434614N 071516E Alt=300		200/500	200/500		500	17	37	
			HOL	EELDE	2040	VOR/DME	EEL	530950N 064000E		150/500	150/500		500	17	37	
			ISR	NATANIA/OLESH	2357	VOR/DME	MZD	322002N 345808E Alt=30		200/500	200/500		500	17	37	
								704215N 234129E								
			NOR	HAMMERFEST	4053	VOR/DME	HMF	704215N 234129E		100/500	100/500		500	17	36	
			POL	LODZ	2689	VOR/DME	LOZ	514634N 193729E		150/500	150/500		500	20	37	
112.500	72X		ALG	ALGER/H.BOUEDIENE	8	VOR/DME	ALR	364128N 031256E		200/500	200/500		500	17	37	
				TAMANRASSET/AGUENAR	49	VOR/DME	TMS	224827N 052647E		200/500	200/500		500	17	37	DVOR
			AZE	QABALA	6984	VOR/DME	QBL	404957N 474306E @483700N 091600E		25/100	25/100		100	17	37	DVOR
			D	TANGO/STUTTART	678	VOR/TAC	TGO	483706N 091533E		80/500	80/500		500	26	40	
			DNK	KASTRUP	5820	VOR/DME	KAS	553526N 123649E		60/500	60/500		500	17	37	
			FIN	LAPPEENRANTA	1460	VOR/DME	VIL	610220N 280701E		60/500	60/500		500	17	37	
				ST. ABBS	4908	VOR/DME	SAB	@554427N 012223W		200/500	200/500		500	17	39	
			HNG	MONOR	4347	VOR/DME	MNR	472000N 192400E		100/500	100/500		500	17	37	
			I	FIRENZE/PERETOLA	2150	VOR/DME	PRT	434835N 111202E Alt=38		50/250	50/250		250	17	38	
				LAMEZIA/TERME	2172	VOR/DME	LMT	385416N 161556E Alt=14		25/100	25/100		100	17	38	
			KAZ	PETROPAPLOVSK	63805	VOR/DME	PSK	544703N 091305E		100/500	100/500		500	20	30	
			MKD	OHRI/OHRID	3288	VOR/DME	OHR	411021N 204411E		60/250	60/250		250	17	37	DVOR
			POR	ESPICHEL	2728	VOR/TAC	ESP	@382527N 091108W		200/500	200/500		500	17	42	
			TUR	ISTANBUL	3143	VOR/TAC	IST	405741N 284839E		120/500	120/500		500	17	40	
			UKR	DNIPROPETROVSK	4248	VOR/DME	DNP	482135N 300611E		200/500	200/500		500	20	37	
			F	MONTS D'ARREE	1259	VOR	ARE	481958N 033609W		60/250			250	17	37	
112.550			D	WUNSTORF	70705	GBAS	TST	522759N 092540E		20/100			100	19		SLOTS A-H RPDS/RSDS 0-20
112.600	73X		ALG	ADRAR/TOUAT	4	VOR/DME	ADR	274901N 001221W		25/100	25/100		100	17	37	
			BUL	SOFIA	5849	VOR/DME	SOF	424153N 232322E		80/500	80/500		500	20	37	
			CZE	FRAHA/RUZYNNE	249	VOR/DME	OKL	500545N 141558E		100/500	100/500		500	20	37	
			E	MAHON/MENORCA	6677	VOR/DME	MHN	@395149N 041259E 395149N 041258E		120/500	120/500		500	23	37	DVOR
				MARTIN	6681	VOR/DME	MAR	370319N 045624W		100/500	100/500		500	20	37	
				DOMINGO	6657	VOR/DME	DGO	370320N 045623W		80/500	80/500		500	23	37	DVOR
			F	CAMBRAI/EPINOY	1064	VOR/DME	CMB	501341N 030905E		80/500	80/500		500	17	37	
			GRC	KALAMATA	1920	VOR/DME	KAM	370400N 220200E		40/250	40/250		250	17	37	TVOR
			I	VIESTE	2282	VOR/DME	VIE	415446N 160257E		80/500	80/500		500	23	38	
			S	HAMMAR	2854	VOR/DME	HMR	@601846N 182330E		150/500	150/500		500	17	37	
			NOR	HAMMERFEST	5869	GBAS	5 ENHF	704033N 233836E		23/100			100	13		
				LEKNES	5870	GBAS	ENLK	680922N 133636E		23/100			100	13		
			TUR	ALL TURKEY	3087	VOR	ALL	TURKEY(LAND)		100/500			500	17		MOBILE
112.700	74X		ALG	OUARGLA/AIN BEIDA	46	VOR/DME	OUR	315632N 052501E		200/500	100/500		500	17	30	
			BLR	VICIEBSK	6748	VOR/DME	VTB	550740N 302136E 394651N 632750W		100/500	100/500		500	23	37	
			E	VILLATOBAS	934	VOR/DME	VTB	394651N 632751W		60/500	60/500		500	23	37	
			F	ISTRES	5566	VOR/DME	ITS	433001N 045624E		100/500	100/500		500	20	37	
				LAIGLE	1167	VOR/DME	LGL	@484726N 003149E		60/500	200/500		500	17	37	
			GRC	ARAXOS	6852	VOR/DME	ARA	@380900N 212500E		150/500	150/500		500	23	37	
				KAZ	63797	VOR/DME	KZO	444145N 653349E		100/500	100/500		500	20	30	
			MRC	ESSAOUIRA/MOGADOR	52286	VOR/DME	ESS	312404N 094113W		200/500	200/500		500	17	37	
			NOR	RORVIK	2610	VOR/DME	RVK	645015N 110848E		40/250	40/250		250	17	37	
			POL	BYDGOSZCZ/SZWEDEROWO	28248	VOR/DME	BYZ	530554N 175519E Alt=0 441800N 282900E		80/250	80/250		250	20	37	
			ROU	CONSTANTA/KOGALNICEANU	2794	VOR/DME	CND	441707N 282841E		175/500	175/500		500	23	37	
			SVN	DOLSKO	3280	VOR/DME	DOL	460503N 144643E		100/500	100/500		500	11	37	
			TUR	ADANA	3079	VOR/DME	ADA	365626N 351237E		100/500	100/500		500	17	37	
				ERZINCAN	5287	VOR/DME	ERN	394239N 393144E		60/250	60/250		250	17	37	
			TUN	CAP BON	3066	VOR	CBN	365344N 110518E		150/500			500	17	37	
112.800	75X		ALG	TIMIMOUN	53	VOR/DME	TIO	291334N 001529E		200/500	200/500		500	17	37	
			AZE	FUZULI	74588	VOR/DME	FZL	393513N 471219E		100/500	100/500		500	10	37	
			BEL	OLNO	146	VOR/DME	LNO	@501508N 054237E		80/500	80/500		500	17	37	
			CYP	LARNACA	215	VOR/DME	LCA	346222N 333732E @483446N 110746E		200/500	200/500		500	20	37	
			D	WALDA	682	VOR/DME	WLD	483446N 110745E		80/500	80/500		500	23	39	
			DNK	KORSA	5830	VOR/DME	KOR	552622N 113754E		80/500	80/500		500	17	37	
			E	BARAHONA	814	VOR/DME	BAN	41925N 023140W		60/500	60/500		500	23	37	
			FIN	PORVOO	1494	VOR/DME	PVO	601740N 253519E		60/500	60/500		500	17	37	
			G	GAMSTON	1655	VOR/DME	GAM	531653N 005650W		80/250	80/250		250	20	37	
			GRC	SKYROS	1974	VOR/DME	SKR	385000N 243500E		40/250	40/250		250	17	28	TVOR - MIL
			BEL	LECCE	5116	VOR/TAC	LCC	401450N 180751E Alt=0		80/250	80/250		250	20	39	MIL
			I	GENOVA	2159	VOR/DME	GEN	442528N 090456E		60/450	60/450		450	17	38	
			MKD	SKOPJE/PETROVEC	3302	VOR/DME	SKJ	415606N 213750E		50/150	50/150		150	17	37	TVOR
			NOR	SKAGEN	2622	VOR/DME	SKG	683442N 150206E		60/250	60/250		250	17	37	
			POL	KRAKOW/BALICE	8862	VOR/DME	KAK	@500436N 194717E		100/500	100/500		500	20	37	
			POR	FARO	2729	VOR/DME	VFA	370949N 075630W		200/500	200/500		500	17	39	

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VHF Channel	DME Channel	MLS Channel	CTY	Location	SAFIRE Ref	Service	Rwy Designat Id or	Co-ordinates	TRD	VHFDOC	DMEDOC	MLSDOC	MaxFL	VHF EIRP	DME EIRP	Remarks
112.800	75X		S	AROS	4646	VOR/DME	ARS	593510N 163901E		80/500	80/500		500	17	37	
			TUR	SAMSUN/CARSAMBA	3350	VOR/DME	CRM	411556N 363256E		100/500	100/500		500	17	37	
112.850			D	STENDAL-BORSTEL	65406	GBAS	TST	523800N 114852E Alt=65	01-05-2020				20	19		Testing GBAS; SLOTS A+B; RPD&RSDS 0-5
			F	BRUCHSAL	65405	GBAS	TST	490802N 083400E	01-05-2020				20	19		Testing GBAS; SLOTS A+B; RPD&RSDS 0-5
			F	TOULOUSE/ENAC	1405	VOR	ENAC	433700N 012200E		40/250			250	17		training use, not published
112.900	76X		ALG	ZARZAITINE/IN AMENAS	57	VOR/DME	IMN	280400N 093939E		200/500	200/500		500	17	37	DVOR
			E	VITORIA/VITORIA	6526	VOR/DME	VFD	422520N 024327W		60/500	60/500		500	20	37	
				CAPDEPERA	6651	VOR/DME	CDP	@394151N 032603E		200/500	200/500		500	20	37	DVOR
			F	COULOMMIERS/VOISIN	1116	VOR/DME	CLM	485041N 030050E		60/500	60/500		500	17	37	
			GRC	SITA	5560	VOR/DME	SHT	351300N 260600E		50/250	50/250		250	17	29	
				STEFANOVIKION	4357	VOR/DME	STV	392800N 224700E		50/250	50/250		250	17	27	TVOR - DME planned
			I	TEANO	2259	VOR/DME	TEA	@411748N 135814E								
			LVA	TRAKSHI	5451	VOR/DME	LBN	564624N 282108E		170/460	150/460		480	13	37	
			CNR	GRAN CANARIA	9029	VOR/DME	GDV	290437N 152544W		200/500	200/500		500	20	37	
			BUL	BEZMER	5303	VOR	BEZ	422700N 262000E		40/250			250	15		MIL
112.950			D	BRAUNSCHWEIG	71105	GBAS	TST	521900N 103000E Alt=65		23/100			100	19		Testing Facility SLOTS: A+B RPD&RSDS 21-28
113.000	77X		ALG	BEJAJA/RAMDANE	51909	VOR/DME	BJA	364252N 050449E		250/500	200/500		500	17	37	
								482500N 160107E								
			AUT	STOCKERAU	82	VOR/DME	STO	482502N 160108E		60/500	60/500		500	17	37	
			E	ZARAGOZA/ZARAGOZA	6527	VOR/DME	ZAR	413928N 010151W		40/250	40/250		250	20	37	TVOR
				SAN JAVIER	6765	VOR/DME	VSJ	374647N 004846W		90/500	90/500		500	20	37	
				JEREZ	6714	VOR/DME	JRZ	364855N 060135W		40/250	40/250		250	17	27	DVOR
			F	LE LUCLE CANNET	1165	VOR/DME	LUC	432258N 061521E		100/250	100/250		250	17	39	
			FIN	KUOPIO	1473	VOR/DME	VEH	625847N 274850E		60/500	60/500		500	17	37	
			GRC	KORINTHOS	6363	VOR/DME	KRI	375400N 225900E		100/500	100/500		500	23	37	Planned
			I	PALERMO/PUNTA RAIS	2205	VOR/DME	PRS	381019N 130448E Alt=4		40/250	40/250		250	17	38	
			KAZ	ARKALYK	66425	VOR/DME	ARK	501905N 670119E		100/500	100/500		500	20	30	
				SHYMKENT	63848	VOR/DME	SMK	422220N 692831E		100/500	100/500		500	20	30	
			MNE	PODGORICA	3290	VOR/DME	POD	422310N 191517E		60/500	60/500		500	11	37	
			S	STURUP	2947	VOR/DME	SUP	@553204N 132246E		80/500	80/500		500	17	37	
				NATTA	2905	VOR/DME	NAT	664447N 211921E		80/500	80/500		500	20	37	
			F	ANGERS-MARCE	1000	VOR	ANG	@472313N 005107W		120/500			500	17		
				EPINAL/MIRECOURT	1142	VOR	EPL	481904N 060334E		60/500	60/500		500	17		
113.050			NOR	OSLO/GARDEMOEN	32525	GBAS	ENGM	601149N 110722E		23/100			100	19		In use for test purposes - SLOTS A-H TRD=196
			SUI	GENEVE/COINTRIN	6027	GBAS	LSGG	461500N 060800E		23/100			100	17		
113.100	78X		ALG	IN SALAH	37	VOR/DME	NSL	271448N 023009E		200/500	200/500		500	17	37	
								@463551N 143344E								
			AUT	KLAGENFURT	74	VOR/DME	KFT	463552N 143344E		80/500	80/500		500	17	35	
			BEL	SPRIMONT	152	VOR/DME	SPI	@503053N 053728E		80/500	80/500		500	17	37	
			BLR	HOMIEL	6746	VOR/DME	GOL	523201N 305950E		100/500	100/500		500	23	37	
			D	HAMBURG	4154	VOR/TAC	HAM	@534108N 101218E		100/500	100/500		500	23	40	
			G	STRUMBLE	5237	VOR/DME	STU	@515941N 050225W		300/500	300/500		500	17	39	
			POL	LININ	3548	VOR/DME	LIN	515558N 210931E		100/500	100/500		500	20	37	
			POR	WISEU	2769	VOR/DME	VIS	404324N 075310W		200/500	200/500		500	17	39	
			S	SUNDSVALL/TIMRA	2948	VOR/DME	SUN	623142N 172655E		100/500	150/500		500	20	37	
			TUN	MONASTIRS/KANES	3072	VOR/DME	MON	384518N 104453E		100/500	100/500		500	17	30	
			TUR	ANKARA/BAGLUM	3096	VOR/DME	BAG	400412N 324838E		150/500	150/500		500	17	37	
			ALG	GHRISS	51917	VOR	GRS	351234N 000856E		200/500	200/500		500	17		
113.150	78Y		CZE	DESNA	229	VOR/DME	OKF	485809N 153244E		80/500	80/500		500	17	37	
								412034N 013252E								
			E	VILLAFRANCA	6524	VOR/DME	VLA	412033N 013252E		60/500	60/500		500	20	37	DVOR
113.200	79X		ALG	TOUGGOURT/SIDI MAHDI	4282	VOR/DME	TGU	330326N 060520E		200/500	200/500		500	17	37	
								503426N 034958E								
			BEL	CHEVRES	128	VOR/TAC	CIV	503420N 034918E		60/500	60/500		500	17	40	MIL USAF TACAN - DIST.TAC-DVOR 8
			E	TOLEDO	920	VOR/DME	TLD	395810N 042014W		60/500	60/500		500	23	37	
			FIN	PORI	1493	VOR/DME	PRI	612753N 214745E		60/500	60/500		500	17	37	
			ROU	STREJNIC	3358	VOR/DME	STJ	445500N 255800E		100/500	100/500		500	17	37	
			TUR	SANLURFA/GAP	4590	VOR/DME	GAP	372729N 385417E		100/400	100/400		400	17	37	
				SELCUK	6904	VOR/DME	SEL	378656N 272001E		25/100	25/100		100	17	27	
			UZB	TASHKENT	5594	VOR/DME	TKT	411500N 691700E		200/400	200/400		400	17	50	
113.250			AUT	SALZBURG/SALZBURG	68405	GBAS	GSBG	474735N 130005E		23/100			100	19		
113.300	80X		D	FURSTENWALDE	3558	VOR/DME	FWE	522441N 140750E		60/500	60/500		500	23	37	
								@392407N 024530E								
			E	PALMA DE MALLORCA	6686	VOR/DME	MJV	392607N 024529E		200/500	200/500		500	23	43	
			FIN	OULU	1490	VOR/DME	OUK	645544N 252133E		60/500	60/500		500	17	35	
			GRC	SITA	1971	VOR/DME	SIT	@350400N 261200E		200/500	200/500		500	23	38	
			HOL	SPILKERBOOR	2065	VOR/DME	SPY	@523225N 045114E		150/500	150/500		500	17	40	
			IRL	SHANNON/SHANNON	2311	VOR/DME	SHA	524316N 085307W		100/500	100/500		500	17	39	
			KAZ	AKTAU	66366	VOR/DME	AKT	438220N 510352E		100/500	100/500		500	20	30	
					63672	VOR/DME	AKT	435131N 510602E		100/500	100/500		500	20	30	
				ZHEKZAGAN	63886	VOR/DME	DZG	474311N 674530E		100/500	100/500		500	20	30	
			MRC	MARRAKECH/MENARA	2465	VOR/DME	MAK	313646N 080611W		150/500	150/500		500	20	37	
			NOR	VARDEFJELL	2591	VOR/DME	VFL	656346N 131192E		60/500	60/500		500	17	37	
			TUN	TABARKA	3522	VOR/DME	TBK	365841N 085301E		200/500	200/500		500	20	37	
			TUR	INEBOLU	3142	VOR/DME	INB	415705N 334223E		150/500	150/500		500	17	37	
			UKR	SOLOVIVKA	6931	VOR/DME	SLV	501112N 293412E		40/250	100/500		500	20	37	
				FOITIERS/BIARD	1326	VOR	POI	463452N 001753E		50/500	50/500		500	17		DVOR
			D	TALUNUS	68965	VOR/DME	TAU	501502N 030944E		60/250	60/250		250	23	37	
			G	SOUTHAMPTON	1821	VOR/DME	SAM	@505719N 012042W		150/500	150/500		500	17	39	
			I	GIOIA DEL COLLE	30520	VOR/DME	GDC	404645N 165516E		80/100	80/100		100	23	37	
				MILANO/MALPENSA	5539	VOR/DME	MMP	453927N 084405E		80/250	80/250		250	1		

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113.400	81X		E	GRANADA	6767	VOR/DME	GDA	371059N 035927W			150/250	150/250	250	20	38	
				GRC SKOPELOS	4668	VOR/DME	SKP	391100N 233700E		150/500	150/500	500	23	37		
				HNG BUGAC	2006	VOR/DME	BUG	464100N 194100E		100/500	100/500	500	17	37		
				I CAGLIARI/ELMAS	2127	VOR/DME	CAG	@391456N 090315E		60/400	60/400	400	17	38		
				VICENZA	2281	VOR/DME	VIC	Alt=58,56		80/500	80/500	500	23	38		
				KAZ KARAGANDA	63753	VOR/DME	KRG	494112N 732145E		100/500	100/500	500	20	30		
				AKTOBE	63673	VOR/DME	AKB	501546N 571055E		100/500	100/500	500	20	30		
				NOR STORD	2640	VOR/DME	STD	594714N 052040E		40/150	40/150	150	17	37		
				RUS SANKT-PETERBURG	3254	VOR/DME	SPB	594900N 301600E		150/500	150/500	500	17	37	IDOC=80N/150	
				S LJUNGBYHED	2892	VOR/DME	LJU	560459N 131204E		40/250	40/250	250	17	37		
				UZB SKELLEFTEA	4849	VOR/DME	SKA	543736N 210466E		100/500	100/500	500	20	37		
				ALG TERMEZ	3620	VOR/DME	TRZ	371700N 671800E		200/400	200/400	400	17	50		
				ALG IN GUEZZAM	36	VOR	IGZ	193349N 054402E		200/500		500	17			
				F NEVERS	1275	VOR	NEV	@470911N 025546E		80/500		500	17			
				113.450	81Y			I COMISO	5860	VOR/DME	COM	365906N 143541E		40/250	40/250	250
POL WARSZAWA/OKECIE	6918	VOR/DME	OKC					521011N 205738E		80/250	80/250	250	20	37		
113.500	82X			ALG ANNABA/RABAH BITAT	12	VOR/DME	ANB	364957N 074852E		200/500	200/500	500	17	37		
				BEL ANTWERPEN/DEURNE	3330	VOR/DME	ANT	511126N 042821E		40/250	40/250	250	17	37		
				GRC MILOS	1952	VOR/DME	MIL	@364500N 243100E		120/500	120/500	500	23	42		
MRC LAAYOUNE/HASSAN IER	73145	VOR/DME	LAN	270707N 131416W		200/460	200/460	460	25	20						
POR FATIMA	2732	VOR/DME	FTM	393956N 082834W		60/500	60/500	500	17	39						
NOR NORDEBRINGELAND	5871	VOR/DME	ENBL	612342N 054537E		23/100		100	13							
113.550	82Y		E	PAMPLONA/NOAIN	6689	VOR/DME	PAP	424118N 013939W		80/250	80/250	250	17	37		
				MALAGA	4739	VOR/DME	MLG	364043N 043024W		60/500	60/500	500	20	37		
				G MANCHESTER	5496	VOR/DME	MCT	532125N 021544W		90/500	90/500	500	17	39		
				HNG WARSAW/OKECIE	70405	VOR/TAC	KCM	465541N 194332E		100/500	100/500	500	17	40		
				I BRINDISI/CASALE	39266	VOR/DME	BCS	403930N 175705E Alt=2		120/250	120/250	250	20	37		
				BLR MINSK-2	6716	VOR/DME	MNS	535304N 280114E		100/500	100/500	500	21	34		
				BUL GORNA LERIDA	4299	VOR/DME	GRN	430911N 254243E Alt=81		200/500	200/500	500	20	37		
				E	6669	VOR/DME	LLE	414347N 003139E		40/250	40/250	250	17	27		
				VGO	6704	VOR/DME	VGO	421917N 083606W		40/250	40/250	250	17	27		
				F MELUN	4677	VOR/DME	MLN	482721N 024845E		40/250	40/250	250	17	37		
				G LONDON	1731	VOR/DME	LON	@512914N 002800W		100/500	100/500	500	23	39	En-route Nav	
				WICK	4144	VOR/DME	WIK	@582732N 036601W		160/500	160/500	500	17	39		
				GEO KUTAISSIKOPITNARI	6726	VOR/DME	KTS	421033N 422905E		108/100	108/100	100	17	37		
				KAZ NOVOKAZALINSK	66429	VOR/DME	NKZ	464952N 620739E		100/500	100/500	500	20	30		
				AVAGLZ	66426	VOR/DME	AGZ	475522N 802659E		100/500	100/500	500	20	30		
NOR SEIDA	2621	VOR/DME	SDA	701403N 280413E		60/500	60/500	500	17	37						
POL TRESNI/TRZEBNICA	2703	VOR/DME	TBN	@511628N 170803E		150/500	150/500	500	20	37						
TUR ADYAMAN-KAHTA	4418	VOR/DME	KHD	374329N 382724E		100/400	100/400	400	17	37						
113.650	83Y		E	VILLANUBLA	4930	VOR/DME	NUB	414219N 045103N		100/250	100/250	250	20	37		
				F MONTEILMAR	4033	VOR/DME	MTL	443318N 044648E		100/500	100/500	500	17	37	MIL	
				MONTIDIPIER	1251	VOR/DME	MTD	@493309N 022922E		60/500	60/500	500	17	36		
				G HONILEY	5739	VOR/DME	HON	@522124N 013949W		100/500	100/500	500	17	37		
				D WARBURG	4155	VOR/DME	WRB	513020N 090639E		80/500	80/500	500	23	39		
				@372539N 054544W												
113.700	84X			E SEVILLA	915	VOR/DME	SVL	372539N 054545W		200/500	200/500	500	23	37		
				F AMBOISE	4955	VOR/DME	AMB	@472544N 010352E		120/500	120/500	500	17	36		
				GEO TBILISI/TBILISI	6724	VOR/DME	TBS	414014N 445649E		108/100	108/100	100	17	37		
				HRV ZAGREB	7146	VOR/DME	ZAG	455344N 161924E		100/500	100/500	500	20	37		
				I SARONNO	2248	VOR/DME	SRN	453845N 090118E		100/500	100/500	500	17	38		
				ISR ALL ISRAEL	2340	VOR/TAC	ALL ISRAEL(LAND)		40/250	40/250	250	17	40 TEST			
				KAZ KARBAGANDA	63728	VOR/DME	BLH	465259N 745902E		100/500	100/500	500	20	30		
				MDA CHISINAU	7157	VOR/DME	KIV	465334N 285416E		200/400	200/400	400	20	37	DVOR	
				TUR IZMIR/CATALKAYA	3192	VOR/DME	IMR	381903N 270202E		100/500	100/500	500	17	37		
				CUKUROVA	27096	VOR/DME	CKR	365200N 350300E		25/100	25/100	100	17	27		
				BLR BREST	6533	VOR/DME	BRT	520634N 235316E		80/500	80/500	500	23	37		
				F BORDEAUX/MERIGNAC	5134	VOR/DME	BMC	@444937N 004316W		150/500	150/500	500	20	36		
G BOVINGDON	6243	VOR/DME	BNN	514334N 032359W		60/500	60/500	500	17	39						
D	6937	VOR	VFM	495743N 082816E Alt=89		01-10-1970		70	20							
@480009N 128334E																
113.800	85X		AUT	SALZBURG	80	VOR/DME	SBG	Alt=455		80/500	80/500	500	17	35		
				E ALICANTE	799	VOR/DME	ALT	@381606N 003412W		120/500	120/500	500	23	37		
				G TALLA	1845	VOR/DME	TLA	@552957N 032110W		120/500	120/500	500	20	39		
				GRC ALEXANDROUPOLIS	1881	VOR/DME	ALX	@405100N 255700E		100/500	100/500	500	23	38		
				KITHIRA	6362	VOR/DME	KTH	361700N 230100E		50/250	50/250	250	17	27		
				I ALGHERO	2081	VOR/TAC	ALG	@403742N 081439E		200/500	200/500	500	17	38	MIL	
				LTU VILNIUS	3377	VOR/DME	VNO	543810N 251737E		100/500	100/500	500	17	37		
				NOR TROMSO	2653	VOR/DME	TRO	694210N 185948E		100/500	100/500	500	17	39		
				F KVERNERGET	2587	VOR/DME	KVB	630705N 074839E		100/500	100/500	500	20	37		
				TUR KARS	3160	VOR/DME	KAR	403324N 430514E		100/500	100/500	500	17	37		
				F BOULOGNE-SUR-MER	1039	VOR	BNE	503729N 015426E		70/500	70/500	500	17	37		
				TUN EL BORMA	4362	VOR	EBA	314221N 091517E		40/250	40/250	250	17	37		
113.850	85Y		D	ERFURT	4190	VOR/DME	ERF	505703N 111412E		40/250	40/250	250	23	38		
				ISR RAMON (TIMNA)	31010	VOR/DME	RAM	294418N 350102E		200/500	200/500	500	17	37		
				NOR TORP	3423	VOR/DME	TOR	591009N 101533E		100/500	100/500	500	17	37		
				POL RADOM	27943	VOR/DME	RAD	512322N 211213E		100/450	100/450	450	17	37		
				TUR AYDIN/CILDIR	27069	VOR/DME	CLD	374853N 275347E		25/100	25/100	100	17	27		
				F DIGNE	1128	VOR	DGN	@435929N 060603E		150/500	150/500	500	17	37		
113.900	86X		ALG	BECHAR/BEN ALI LOTFI	13	VOR/DME	BCR	314109N 021541W		200/500	200/500	500	17	37		

COM3- List of national and international assignments in Frequency order

VHF Channel	DME Channel	MLS Channel	CTY	Location	SAFIRE Ref	Service	Rwy Designat Id or	Co-ordinates	TRD	VHFDOC	DMEDOC	MLSDOC	MaxFL	VHF EIRP	DME EIRP	Remarks	
113.900	86X		F	TARBES/OSSUN-LOURD	5985	VOR/DME	TBO	431956N 000845E		80/500	80/500		500	17	36		
			G	OTRINGHAM	1799	VOR/DME	OTR	@534154N 000613W		200/600	200/600		600	20	39		
			I	OLBIA/COSTA SMERALDA	2197	VOR/DME	SME	405324N 093005E						400	17	36	
			LTU	KLAIPEDA	4373	VOR/DME	MLA	554300N 211500E		50/400	50/400		400	17	37		
			POR	SAGRES	2735	VOR/DME	SGR	370502N 085647W		250/500	250/500		500	17	39		
			SRB	NIS	3281	VOR/DME	NIS	@432047N 214937E		150/500	150/500		500	17	37		
			SUI	ST PREX	68505	VOR/DME	Nll	432012N 215101E		100/500	100/500		500	20	37		
			TUR	KAHRAMANMARAS	5297	VOR/DME	SPR	373224N 366711E		100/500	100/500		500	23	37	Replacement of existing VOR/DME equipment	
			TUR		4238	VOR/DME	KHM			100/500	100/500		500	17	37		
113.950	86Y		E	ROBEDILLO	4393	VOR/DME	RBO	405114N 031447W		60/500	60/500		500	20	37	DOPPLER	
			G	BENBECULA	4290	VOR/DME	BEN	@572841N 072195W		200/500	200/500		500	17	39		
			HOL	AMSTERDAM/SCHIPHOL	2029	VOR/DME	AMS	521958N 044220E		60/250	60/250		250	17	37		
			UKR	KYIV/ZHULYANY	67865	VOR/DME	KVZ	502413N 302655E		160/500	200/500		500	17	37		
			I	ODESSA	4247	VOR/DME	ODS	462549N 304015E		200/500	200/500		500	20	37		
			D	SIGONELLA	6821	GBAS	SGN	372400N 145500E		100/600	100/600		600	19	37	MIL USAF	
114.000	87X		ALG	ORAN/AHMED BENBELLA	42	VOR/DME	ORA	353645N 003918W		200/500	200/500		500	17	37		
				BORDJ MOKHTAR	72185	VOR/DME	MOK	212257N 005702E		200/500	200/500		500	17	37		
			D	BARMEN	280	VOR/DME	BAM	@511940N 071037E						500	23	38	
								Air=255		60/500	60/500						
					65985	VOR/DME	BAM	@511939N 071037E		60/500	60/500		500	23	37		
			G	MIDHURST	1777	VOR/DME	MID	@510314N 003730W		100/500	100/500		500	23	39	Will replace 3D280 after successful implementation (Q4/2020)	
				KAZ	63799	VOR/DME	PVL	521235N 770542E		100/500	100/500		500	20	30		
				LVA	64185	VOR/DME	RIA	565515N 235755E		160/500	160/500		500	13	37		
			ROU	SIBIU	28224	VOR/DME	SBI	454651N 240519E		100/500	100/500		500	23	37	Until equipment replacement (est. Zy).	
			SVK	SLIAC	3057	VOR/DME	SLC	482712N 190657E		60/500	60/500		500	17	37		
				TUN	5473	VOR/DME	SFX	344258N 104120E		100/450	100/450		450	17	30		
			TUR	ANTALYA	3106	VOR/DME	AYT	365500N 304800E		150/500	150/500		500	17	37		
				SINOP	3178	VOR/DME	SIN	420120N 350437E		100/400	100/400		400	17	37		
			UZB	TAMDYBULAK	5595	VOR/DME	TMD	414500N 643600E		200/400	200/400		400	17	50		
			G	LYDD	1759	VOR/DME	LYD	@505959N 005243E		100/500	100/500		500	17	39	En-route Nav	
			TUR	ISTANBUL/YENI HAVALIMANI	39417	VOR/DME	UHR	411526N 285134E		60/500	60/500		500	23	37		
			F	TOULOUSE/BLAGNAC	29051	GBAS	STNA	433654N 012303E		23/100			100	19	37	TESTING GBAS	
			NOR	BRONNOEYSUND	5868	GBAS	ENBN	652739N 121312E		23/100			100	13	37		
			SUI	ZURICH	5852	GBAS	LSZH	472800N 083300E		23/100			100	17	37		
114.100	88X		ALG	DJANET/ITISKA	23	VOR/DME	DJA	241716N 092712E		200/500	200/500		500	17	37	DVOR	
			AZE	ZAGATALA	51145	VOR/DME	ZAQ	413314N 464012E		100/500	100/500		500	20	37	CVOR	
			BUL	GOLYAMA	5794	VOR/DME	GOL	430542N 241314E		100/500	100/500		500	20	37		
			BER	LIN-BRANDENBURG	7137	VOR/DME	BBI	522031N 132715E		80/500	80/500		500	22	38		
			E	GERONA/COSTA BRAVA	6514	VOR/DME	GJR	@415552N 024619E		80/250	80/250		250	23	43		
				ALMERIA	803	VOR/DME	AMR	364959N 021634W		60/250	60/250		250	23	37		
			F	BRAY-SUR-SEINE	1042	VOR/DME	BRY	@482425N 031741E		100/500	100/500		500	17	36		
			G	WALLASEY	1860	VOR/DME	WAL	532331N 030804W		120/500	120/500		500	17	39		
			I	CHIOGGIA	2139	VOR/DME	CHI	450418N 121828E		80/500	80/500		500	17	38		
			ISR	OVDA	2358	VOR/DME	OVD	298900N 345800E		25/100	25/100		100	17	30	TVOR	
			LVA	DAUGAVPILS	5448	VOR/DME	DGP	556500N 264032E		170/460	150/460		460	13	37		
			NOR	VARDO	2666	VOR/DME	VRD	702128N 310250E		40/150	40/150		150	17	37		
			POR	PORTO	2755	VOR/DME	PRT	@411623N 084116W		200/500	200/500		500	17	39		
			S	UMEA	2959	VOR/DME	LME	634719N 201707E		150/500	150/500		500	20	37		
			CNR	FUERTEVENTURA	9027	VOR/DME	FTV	282551N 135152W		200/500	200/500		500	20	37		
			F	BASTIA/PORETTA	1022	VOR/DME	BTA	423425N 092829E		80/500	80/500		500	17	37		
			HNG	BIARRITZ/ANGLET	1032	VOR/DME	BTZ	@432800N 013037W		100/500	100/500		500	17	37		
				KECKEMET	5728	VOR/DME	KET	465500N 194500E		100/500	100/500		500	20	39	MIL	
			HOL	HAAMSTEDDE	2049	VOR	HSD	514322N 035129E		80/500			500	14		MIL - Planned replacement of 3HNG5728	
114.200	89X		ALG	TINDOUF	54	VOR/DME	TDF	274236N 080751W		200/260	200/260		260	17	37		
			D	FRANKFURT/MAIN	414	VOR/TAC	FFM	@500313N 083814E		100/500	100/500		500	26	40		
			E	REUS	6691	VOR/DME	RES	@410859N 011016E		120/500	120/500		500	23	37		
				CACERES	6766	VOR/DME	CCS	393128N 062605W		115/500	115/500		500	20	37		
			FIN	HELSINKI/VANTAA	1440	VOR/DME	HEL	602016N 245713E		60/500	60/500		500	17	37		
			G	LANDS END	1710	VOR/DME	LND	500811N 053813W		200/500	200/500		500	20	39		
			GRC	LESVOS	1944	VOR/DME	LSV	@391400N 262500E		100/500	100/500		500	23	38		
			I	RONCHI DEI LEGIONARI	5087	VOR/DME	RCH	454947N 132849E		40/250	40/250		250	17	38		
			KAZ	URALSK	63868	VOR/DME	URL	510855N 513238E		100/500	100/500		500	20	30		
			NOR	BARDUFLOSS	2512	VOR/DME	BDF	690354N 182758E		40/500	40/500		500	20	36		
			POL	SOONDAL	9603	VOR/DME	SOG	619907N 070935E		100/500	100/500		500	17	37		
			POR	DARLOWO	2670	VOR/DME	DAR	540437N 162317E		100/500	100/500		500	20	37		
			TUN	BIZERTE	6274	VOR/DME	BIZ	371413N 094559E		100/500	100/500		500	17	30	DVOR	
			TUR	SIVAS	3179	VOR/DME	SIV	394723N 365336E		100/400	100/400		400	17	40		
				GAZIPASA	4604	VOR/DME	GZP	361818N 321751E		60/400	60/400		400	17	37		
			UKR	IVANO-FRANKIVSK	5695	VOR/DME	IVF	485303N 244129E		140/500	140/500		500	20	37		
			UZB	URGENCH	5596	VOR/DME	URG	413500N 603700E		200/400	200/400		400	17	50		
114.250	89Y		E	MELLILA	6520	VOR/DME	MEL	351650N 025729W		100/500	100/500		500	20	37	DVOR	
			D	MUNCHEN	6930	GBAS	EDMM	482031N 114804E		46/100			115	19	37	SLOTS A-H; RSDS/RPDS 0-20; RPI G08A-G08M (13) and G26A-G26M (13)	
			I	PALERMO/PUNTA RAISI	6549	GBAS	PPS	381000N 130500E		25/100			100	17	37		
114.275	90X		ALG	BORDJ OMAR DRISS	17	VOR/DME	BOD	280759N 080212E		200/500	200/500		500	17	37		
			CZE	VLASIM	251	VOR/DME	VLM	@494215N 150400E		80/250	80/250		250	20	37		
			E	CIUDAD REAL	6712	VOR/DME	ADQ	385100N 035800W		40/250	40/250		250	17	27	DVOR. Future requirement	
			D	BARCELONA	6511	VOR/DME	PRA	@411689N 020485E		200/500	200/500		500	23	37		
			F	DINARD/PLEURTUIT	1134	VOR/DME	DIN	483510N 020456W		80/500	80/500		500	17	36		
			G	ABERDEEN	1518	VOR/DME	ADN	@571838N 021602W		200/500	200/500		500	23	39		
			ISR	BEER SHEBA	2352	VOR/DME	BSA	311710N 344318E		40/500	40/50						

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114.300	90X	S	TROSA	2958	VOR/DME	TRS	@588616N 173008E	120/500	120/500	500	17	37						
		SUI	TRASADINGEN	3031	VOR/DME	TRA	474122N 082613E	100/500	100/500	500	17	39						
		TUR	SIIRT	3176	VOR/DME	SRT	376438N 415255E	150/500	150/500	500	17	37						
		D	CUBUK	3122	VOR/DME	BUK	401431N 330618E	120/500	120/500	500	17	37						
		D	OSNABRUCK	624	VOR	OSN	@511200N 081708E	80/500	80/500	500	23	39						
114.350	90Y	NOR	SANDNESSJOEN	6091	GBAS	ENST	655722N 122813E	23/100		100	13							
			BERLEVAG	6099	GBAS	ENBV	705222N 290211E	23/100		100	13							
		D	DRESDEN	3339	VOR/DME	DRN	510056N 133556E	80/500	80/500	500	23	39						
		F	CLERMONT-FERRAND	4703	VOR/DME	CFA	454715N 031132E	100/500	100/500	500	17	37						
		G	COMPTON (NORRY)	1610	VOR/DME	CPT	@512830N 011311W	150/500	150/500	500	20	39						
I	TREVISIO/ANGELO	37532	VOR/DME	TVS	453900N 121124E	60/250	60/250	250	20	37					planned 2021			
TUN	AEROPORT INTERNATIONAL ENFIDHA	6564	VOR/DME	NBA	@360426N 102608E	200/500	170/500	500	20	39						DVOR VOR/DME (doc 170/500 in the 0/70 sector & 200 in 70/360 sector/500)		
114.400	91X	UKR	ODESSA	59825	VOR/DME	ODA	462534N 304011E	160/500	200/500	500	20	37						
		FIN	KUUSAMO	1477	VOR/DME	KLA	655930N 291409E	60/500	60/500	500	17	37						
		GRC	ATHINAI	6065	VOR/DME	ATV	376300N 234800E	120/500	120/500	500	20	37						
		HKG	SAJOHIDVEG	2010	VOR/DME	SAG	480000N 210000E	100/500	100/500	500	17	37						
		KAZ	NUR-SULTAN	63714	VOR/DME	AST	510006N 712800E	100/500	100/500	500	20	30						
114.450	91Y	LUX	KALNAS	3505	VOR/DME	KNA	545737N 240359E	100/500	100/500	500	20	37						
		LUX	DIEKIRCH	2427	VOR/DME	DIK	@495141N 060747E	100/500	100/500	500	17	39						
		NOR	BANAK	2506	VOR/DME	BNK	701035N 245654E	60/250	60/250	250	17	27						
		TUR	MESNALI	4278	VOR/DME	MES	610559N 103834E	100/500	100/500	500	17	36						
		TUR	ORDU-GRESUN	27897	VOR/DME	ORI	408752N 380510E	25/100	25/100	100	17	27						
114.500	92X	CNR	LANZAROTE	9034	VOR/DME	LTE	285654N 133605W	200/500	200/500	500	20	37						
		CZE	BRONO	31386	VOR/DME	BNO	490900N 164133E	80/500	80/500	500	20	37						
		D	SARSTEDT	57765	VOR/DME	SAS	@521503N 095303E	80/500	80/500	500	23	38						
		F	CAEN/CARPIQUET	6548	VOR/DME	CAN	491024N 002719W	100/500	100/500	500	17	37						
		F	MONTPELLIER/FREJOUR	4105	VOR/DME	FJR	@433442N 035829E	80/500	80/500	500	17	37						
114.550	92Y	ALG	TEBESSA/C.LARBI TEBESSI	51	VOR/DME	TBS	352724N 080407E	200/500	200/500	500	17	37						DVOR
		BEL	KOKSY	138	VOR/TAC	KOK	@510557N 023920E	100/500	100/500	500	17	40						MIL TACAN 100NM 90-157.5T
		F	LIMOGES/BELLEGARDE	1199	VOR/DME	LMG	@454857N 010132E	100/500	100/500	500	17	36						
		FIN	VAAASA	1510	VOR/DME	VAS	630228N 214554E	60/500	60/500	500	17	37						
		GRC	KASTORIA	1925	VOR/DME	KAS	402700N 211700E	40/250	40/250	250	17	28	TVOR					
I	TORINO/POIRINO	2265	VOR/DME	TOP	Alt=248	200/600	200/600	600	17	36								
114.600	93X	POL	CZEMPIN	2669	VOR/DME	CMP	520800N 164309E	100/500	100/500	500	20	37						
		D	LOWENBERG	4146	VOR/DME	LWB	625437N 130804E	80/500	80/500	500	23	39						
		E	HUESCA	6517	VOR/DME	HUE	420424N 001908W	60/500	60/500	500	20	37						
		G	CLACTON	1604	VOR/DME	CLN	@515054N 010851E	150/500	150/500	500	17	39						
		SUI	ZURICH/EAST	5681	VOR/DME	ZET	473600N 080508E	60/500	60/500	500	23	37						
114.650	93Y	ALG	SETIF/AIN ARNAT	5778	VOR/DME	STF	361036N 051719E	40/250	40/250	250	17	17						
		BEL	BRUXELLES	112	VOR/DME	BUB	505408N 043217E	100/500	100/500	500	17	37						
		F	AVIGNON	7107	VOR/DME	AVN	435943N 044447E	100/500	100/500	500	17	37						
		FIN	UTT	1509	VOR/DME	UTT	605350N 285548E	100/500	100/500	500	20	37						
		GRC	PALEOHORA	1958	VOR/DME	PLH	@351300N 234100E	200/500	200/500	500	23	42						
114.700	94X	I	PONZA	2221	VOR/TAC	PNZ	405443N 125727E	200/600	200/600	600	17	39	MIL					
		IRL	CORK	2290	VOR/DME	CRK	515026N 082939W	80/500	80/500	500	20	39						
		MRC	ZAGORA	31706	VOR/DME	ZAG	301534N 055008W	150/500	200/500	500	20	39						
		POL	GRUDA/GRUZIADZ	2674	VOR/DME	GRU	533116N 184835E	150/500	150/500	500	20	37						
		RUS	MOSKVA	3226	VOR/DME	MOS	558800N 372100E	150/500	150/500	500	17	23						
114.750	94Y	S	LANDVETTER	2883	VOR/DME	LAV	573922N 121724E	100/500	100/500	500	17	37						
		TUR	ISTANBUL/B.CEKMECE	4314	VOR/DME	CEK	410024N 283143E	30/250	30/250	250	17	37						
		F	ALICANTE	4729	VOR/DME	ATE	381710N 003512W	40/250	40/250	250	17	37						
		E	COGNAC/CHAT.BERNAR	4883	VOR/DME	CNA	453934N 001842W	100/500	100/500	500	17	37						
		S	OSTERSUND	4119	VOR/DME	OSS	631158N 142915E	150/500	150/500	500	17	37						
ALG	HASSI MESSAOUD/OUED IRARA	34	VOR/DME	HME	313951N 060810E	200/500	200/500	500	17	37						DVOR		
114.800	95X	D	RODING	5351	VOR/DME	RDG	@490225N 123136E	80/500	80/500	500	23	41						
		E	HINOJOSA DEL DUQUE	840	VOR/DME	HJU	383029N 050559W	80/500	80/500	500	23	38						
		F	RAMBOUILLET	1333	VOR/DME	RBT	@483914N 015939E	110/500	110/500	500	17	36						
		FIN	MARIEHAMN	1483	VOR/DME	MAR	600828N 195452E	60/500	60/500	500	17	37						
		GRC	KERKIRA	1935	VOR/DME	KRK	392700N 200400E	100/500	100/500	500	23	38	TERRAIN					
114.850	95Y	I	ELBA	2147	VOR/TAC	ELB	424350N 102345E	200/600	200/600	600	17	39	MIL					
		IRL	WESTON	5324	VOR/DME	WST	532110N 062938W	30/100	30/100	100	17	27						
		POL	SIEDLCE	2696	VOR/DME	SIE	@520919N 221203E	150/500	150/500	500	20	37						
		TUR	DALAMAN	3123	VOR/DME	DAL	364122N 284656E	80/250	80/250	250	17	37						
		ALG	ELAZIGH/ARPUT	3129	VOR/DME	EZS	384230N 010445E	100/500	100/500	500	17	37						
114.900	96X	DNK	ALSIE	5839	VOR	ALS	@545419N 095936E	80/500	80/500	500	17	37						
		BLR	HYBOKAJE	6741	VOR/DME	GLB	550903N 274009E	80/500	80/500	500	23	37						
		F	LYONST-EXUPERY	4859	VOR/DME	LSE	@454444N 050528E	140/500	140/500	500	17	37						
		G	GOODWOOD	1665	VOR/DME	GWG	505119N 084524W	80/500	80/500	500	20	39						
		HKG	PAPA	5693	VOR/DME	PCT	472200N 173000E	100/500	100/500	500	20	39	MIL					
MRC	SIDI SLIMANE	70445	VOR/TAC	PCT	472254N 172928E	140/500	120/500	500	20	40						MIL Planned replacement of [3HNG5693]		
114.950	96Y	POL	SZCZECIN	27259	VOR/DME	SMN	341407N 063908W	200/500	200/500	500	17	37						
		ALG	EL BAYADH	61918	VOR/DME	EZS	334238N 010445E	100/500	100/500	500	17	37						
		D	ZWEIBRUCKEN	4180	VOR/DME	ZWN	491345N 072504E	60/500	60/500	500	23	38						
		F	AGEN/GAUDONVILLE	975	VOR/DME	AGN	@435317N 005222E	120/500	120/500	500	17	36						
			AJACCIO/COTI CHIAVARI	981	VOR/DME	AJO	@414814N 084629E	200/500	200/500	500	23	36						
KAZ	JARKENT	66428	VOR/DME	JRK	441344N 795719E	100/500	100/500	500	20	30								
	KOSTANAY	63790	VOR/DME	KST	531113N 633346E	100/500	100/500	500	20	30								
POL	KATOWICE	6863	VOR/DME	KAX	502840N 190506E	100/400	100/400	400	20	37								
POR	LISBOA	2736	VOR/DME	LIS	385316N 090946W	80/500	80/500	500	17	39								
ROU	TULCEA	4432	VOR/DME	TLA	450400N 284200E	175/500	175/500	500	20	37								

COM3- List of national and international assignments in Frequency order

VHF Channel	DME Channel	MLS Channel	CTY	Location	SAFIRE Ref	Service	Rwy Designat Id or	Co-ordinates	TRD	VHF/DOC	DME/DOC	MLS/DOC	MaxFL	VHF EIRP	DME EIRP	Remarks	
114.800	95X		SVN	BISTRICA	2975	VOR/DME	LB	453356N 141015E		60/500	60/500		500	17	37		
			TUR	CORLU	4415	VOR/DME	CRL	410903N 275606E		50/250	50/250		250	17	37		
			NOR	SVOLVAER	6087	VOR/DME	ENSH	681428N 143949E		23/100			100	13			
114.850	95Y		CZE	FRYDLANT	230	VOR/DME	OKX	@505410N 150155E		80/500	80/500		500	17	37		
			E	MURCIA/REGION	6961	VOR/DME	MUR	374908N 010715W		40/250			250	17	27		
			F	BOURSONNE	4676	VOR/DME	BSN	491118N 030323E		60/500	60/500		500	17	37		
								603256N 050743E									
			NOR	VOLLO	2668	VOR/DME	VOO	603256N 050744E		50/400	50/400		400	17	39		
			SUI	KLOTEN	4478	VOR/DME	KLO	472726N 083244E		50/250	50/250		250	20	37		
			TUR	ANKARA/ESENBAGA	56585	VOR/DME	NBG	400804N 330114E		25/100	25/100		100	17	27		
114.900	96X		ALG	GHARDAIA/NOUMERATE	31	VOR/DME	GHA	322336N 034640E		200/500	200/500		500	17	37	DHMI DVOR	
			BEL	AFFLIGEM	98	VOR/DME	AFI	@505428N 040820E		90/250	90/250		250	17	37		
			BUL	PLOVDIV	5792	VOR/DME	PDV	420312N 245239E		60/250	60/250		250	20	37		
			D	ERLANGEN	4188	VOR/DME	ERL	493922N 110903E		60/500	60/500		500	23	39		
			DNK	CODAN	5826	VOR/DME	CDA	550006N 122245E		60/500	60/500		500	17	37		
			EST	VILJANDI	3533	VOR/DME	VI	583921N 253429E Alt=61		80/500	80/500		500	20	37		
			FIN	KAJAANI	1461	VOR/DME	KNI	641657N 273921E		60/500	60/500		500	17	37		
			I	ROMAFIUMICINO	2199	VOR/DME	OST	@444814N 121415E		150/500	150/500		500	17	38		
			IRL	DUBLIN	2295	VOR/DME	DUB	@532958N 081826W		150/500	150/500		500	20	39		
			ISR	ALL ISRAEL	2344	VOR/TAC	ALL ISRAEL(LAND)		40/250	40/250		250	17	40 MOBILE			
			POL	ZABOROWEK	2712	VOR/DME	WAR	@521533N 203926E		150/500	150/500		500	20	37		
			POR	PORTO SANTO	2758	VOR/DME	SNT	@330525N 162102W		200/500	200/500		500	17	39		
			TUR	ANKARA/AKKOPRU TRABZON/TRABZON	67345	VOR/DME	ANK	395711N 324941E		25/100	25/100		100	17	27		
								410000N 394800E		100/500	100/500		500	17	37		
			UKR	KIROVOHRAD	7267	VOR/DME	KVH	483240N 321731E		150/500	160/500		500	20	37		
								ALL CZECH									
114.950	96Y		CZE	ALL CZECH REPUBLIC	223	VOR/DME	REPUBLIC(LAND)		60/500	60/500		500	17	36 FLIGHT TEST			
			E	NAVAS DEL REY	6683	VOR/DME	NVS	402207N 041458W		200/500	200/500		500	20	37		
			G	DOVER	1631	VOR/DME	DVR	@510945N 012133E		200/500	200/500		500	20	39		
			I	BERGAMO/ORIO AL SERIO	6226	VOR/DME	BEG	454010N 094233E		40/250	40/250		250	17	30		
			ALG	BISKRA/M.KHIDER	4281	VOR/DME	BIS	344633N 054549E		200/500	200/500		500	17	37		
115.000	97X		AZE	BAKU	7106	VOR/DME	BAK	402515N 500350E		25/100	25/100		100	17	37		
			GRC	KEA	1930	VOR/DME	KEA	@373400N 241800E		120/500	120/500		500	23	38		
			ISR	METZADA	2356	VOR/DME	MZD	312000N 352300E		50/500	40/500		500	17	28		
								452023N 590721E		100/500	100/500		500	20	30		
			KAZ	BEINEU UST-KAMENOGORSK	68427	VOR/DME	BNU	500158N 023030E		100/490	100/490		490	20	30		
			LTU	KLAIPEDA	27114	VOR/DME	KLP	554256N 211437E		80/500	100/500		500	20	37		
			MRC	AL HOCEIMA/C. EL IDRIS	2448	VOR/DME	ALM	351128N 035030W		100/500	100/500		500	17	37		
			S	ORNSKOLD/SVIK	2914	VOR/DME	OSK	632422N 185937E		60/500	60/500		500	20	37		
			SRB	VRSAQ	7170	VOR/DME	VRB	456816N 211924E		150/500	150/500		500	20	37		
			TUR	TOKAT	4416	VOR/DME	TKT	401854N 362239E		100/500	100/500		500	17	37		
			CNR	GRAN CANARIA	9030	VOR/DME	LPC	274943N 152556W		200/500	200/500		500	20	37		
115.050	97Y		NOR	BAATSFJORD	6084	GBAS	ENBS	703559N 294112E		23/100			100	13			
			F	ALL FRANCE	4773	VOR/DME	LVB	ALL FRANCE(LAND)		100/500	100/500		500	17	37		
115.100	98X		E	MADRID/TORREJON	72197	VOR/DME	VTZ	402832N 032819W		40/250	40/250		250	17	27		
			G	LA CORUNA/LA CORUN	861	VOR/DME	LRA	432346N 081825W		40/250	40/250		250	17	27		
			HG	BIGGIN HILL	1559	VOR/DME	BIG	@511951N 000205E		125/500	125/500		500	17	39		
			N	STORNOWAY	4143	VOR/DME	STN	@581225N 061030W		200/500	200/500		500	17	39		
				GYR	4345	VOR/DME	GYR	474009N 174300E		100/500	100/500		500	17	37		
			I	CARBONARA	2132	VOR/DME	CAR	Alt=44		130/500	130/500		500	17	38		
			MRC	CASABLANCA/MOHAMMED V	31806	VOR/DME	CBL	332514N 073622W		150/500	200/500		500	20	37		
			POL	RUDKA	4806	VOR/DME	RUD	524950N 234226E		100/450	100/450		450	20	37		
			S	VISBY	2972	VOR/DME	VSB	@573934N 182049E		150/500	150/500		500	20	37		
								653225N 220803E		60/500	60/500		500	20	37		
			TUR	GEMERЕК	3141	VOR/DME	GEM	@390914N 360143E		150/500	150/500		500	17	37		
115.150	98Y		D	KLASDORF	3328	VOR/DME	KLF	520110N 133348E		60/500	60/500		500	23	39		
								511659N 064513E		40/250	40/250		250	23	39		
								592048N 051206E									
			NOR	KARMOEY	2555	VOR/DME	KRM	592048N 051207E		50/400	50/400		400	17	39		
			SVN	PORTOROZ	6924	VOR/DME	POR	452829N 133644E		50/250	50/250		250	17	30		
			E	MALAGA	6959	GBAS	LEMG	364113N 043045W		23/100			100	19			
115.200	99X		D	MAISACH	6171	VOR/DME	MAH	481548N 111843E		60/500	60/500		500	23	38		
								@521501N 095301E		80/500	80/500		500	23	39		
			F	YESTE	939	VOR/DME	YES	382139N 022109W		60/500	60/500		500	23	43		
			F	CHARTRES/LA LOUPE	1088	VOR/DME	CHW	@482848N 005913E		180/500	180/500		500	17	36		
			FIN	HALLI	1439	VOR/DME	HAL	615117N 244809E		60/500	60/500		500	17	37		
			G	DEAN CROSS	1629	VOR/DME	DCS	@544319N 032026W		100/500	100/500		500	17	39		
			LTU	SIAULIAI	4035	VOR/DME	SAU	555245N 232459E		100/500	80/500		500	23	37		
			S	KIRUNA	4991	VOR/DME	KRA	674909N 202015E		100/500	100/500		500	17	39		
			SRB	BUDISAVCIJ	3278	VOR/DME	BUI	424200N 203100E		80/500	80/500		500	17	37		
			TUR	KASTAMONU	26956	VOR/DME	KST	412101N 334800E		25/100	25/100		100	15	27		
								@382758N 431931E		80/500	80/500		500	17	37		
			CNR	LANZAROTE	29955	VOR/DME	LZR	290958N 133039W		200/500	200/500		500	20	37		
115.250	99Y		D	GOTEM	3327	VOR/DME	GOT	512036N 113551E		60/500	60/500		500	23	39		
			S	VASSEN	2964	VOR/DME	VSN	611811N 154233E		100/500	100/500		500	17	37		
115.300	100X		ALG	BENI-ABBES	15	VOR/DME	BBS	300126N 021350W		200/500	200/500		500	17	30		
			BIH	BANJA LUKA	5412	VOR/DME	LAK	446630N 171746E		40/250	40/250		250	17	29		
			D	NATTENHEIM	4367	VOR/TAC	NTM	500057N 063154E		60/500	60/500		500	24	40		
								@432659N 035409W									
			E	SANTANDER	6695	VOR/DME	SNR	432700N 035408W		150/500	150/500		500	17	37		
								591602N 241448E									
			EST	ÀMARI	69485	VOR/TAC	AMI	Alt=9,15		150/500	150/500		500	30	40		

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VHF Channel	DME Channel	MLS Channel	CTY	Location	SAFIRE Ref	Service	Rwy Designat Id or	Co-ordinates	TRD	VHFDOC	DMEDOC	MLSDOC	MaxFL	VHF EIRP	DME EIRP	Remarks			
115.300	100X		G	OCHKAM	4132	VOR/DME	OCK	@511818N 002650W		90/250	90/250		250	17	39				
			I	VENEZAT/ESSERA	2276	VOR/DME	TES	453109N 122206E Alt=2	40/250	40/250	250	17	38						
			ISR	ROSH-PINA	2345	VOR/DME	ROP	325857N 353422E	20/500	20/500	500	17	30						
									652725N 121251E										
			NOR	BRONNOY	2526	VOR/DME	BNN	652725N 121252E	60/250	60/250	250	14	27						
			POL	DENKO/DREZDENKO	2671	VOR/DME	DRE	@524901N 164957E	150/500	150/500	500	20	37				Planned upgrade to VOR/DME		
115.350	100Y		D	TUN	BEN AOUN	3065	VOR	BAN	345147N 091003E	200/500			500	17	37				
					CHARLIE/FRANKFURT	59365	VOR/DME	CHA	485516N 090223E	60/250	60/250	250	23	39					
			E	CALELLA	6513	VOR/DME	CLE	413824N 023804E	60/500	60/500	500	20	37			DVOR			
			F	PARIS/CH DE GAULLE	3492	VOR/DME	CGN	490112N 023000E	60/250	60/250	250	17	37						
			ALC	ALL GREECE	6360	VOR/DME	TST	ALL GREECE(LAND)	40/500	40/500	500	17	27				TEST-MOBILE		
			I	TRENTOMATTARELLO	4713	VOR/DME	TNT	460113N 110824E	40/250	40/250	250	17	38						
115.400	101X		D	ALG	HASSI R MEL	4444	VOR/DME	HRM	325615N 032124E	100/500	100/500		500	17	37				
					GERMINGHAUSEN	4168	VOR/DME	GMH	511014N 075331E	60/500	60/500	500	23	37					
			E	SOMOSIERRA	4096	VOR/DME	SIE	410906N 033618W	60/500	60/500	500	20	37				DOPPLER		
			F	CHAMBERY/ALPES NOR	1084	VOR/DME	CBY	455255N 054526E	80/500	80/500	500	17	36						
			G	GLASGOW	1658	VOR/DME	GOW	@555214N 042645W	300/500	300/500	500	17	39						
			HRV	DUBROVNIK	7145	VOR/DME	DBK	423314N 181639E	80/500	80/500	500	20	37						
			ISR	TEL AVIV/BEN GURIO	2365	VOR/DME	LIV	320000N 345300E	100/500	100/500	500	17	37						
			MRC	BENGUERIR	34337	VOR/DME	BGR	320928N 075251W	200/500	200/500	500	17	37						
			TUN	GABES	5472	VOR/DME	GAB	334356N 095513E	25/100	100/450	450	17	30						
			BLR	MINSK-2	58686	GBAS	LKSM	535306N 280256E	23/100		100	17	37						
			BEL	LIEGE/LIEGE	4351	VOR/DME	LGJE	503914N 052814E	40/250	40/250	250	17	37						
			E	AGONCILLO	8708	VOR/DME	LPA	422738N 021937W	60/500	60/500	500	20	37					DVOR	
115.500	102X		SUI	GRENCHEN	4896	VOR/DME	GRE	471059N 072505E	25/100	25/100		100	20	27					
				ALG	CONSTANTINE/M.BOUJAF	20	VOR/DME	CSO	361736N 063630E	200/500	200/500	500	17	37				DVOR	
			AUT	SOLLENAU	81	VOR/DME	SNU	@475230N 181718E	60/500	60/500	500	17	28						
			DNK	ODIN	5822	VOR/DME	ODN	@553452N 103911E	80/500	80/250	500	17	37						
			E	MORON DE LA FRONTE	875	VOR/DME	MRN	371030N 053708W	185/500	185/500	500	20	37						
			F	NANTES/ATLANTIQUE	1273	VOR/DME	NTS	@470839N 013647W	150/500	150/500	500	17	36						
			FIN	TURKU	1504	VOR/DME	RUS	603055N 221524E	60/500	60/500	500	17	37						
			GRC	KEFALINIA	4002	VOR/DME	KFN	380700N 203000E	100/500	100/500	500	20	37						
			KAZ	KOKSHETAU	63758	VOR/DME	KTU	532103N 693701E	100/500	100/500	500	20	30						
			POR	NISA	2749	VOR/TAC	NSA	@393353N 075453W	200/500	200/500	500	17	42						
			TUR	ERZURUM	5273	VOR/DME	ERZ	395724N 411226E	80/400	80/400	400	17	37						
			UKR	L'VN	5687	VOR/DME	LIV	484843N 235705E	100/500	100/500	500	20	37					DVOR	
115.550	102Y		D	CHARLIE/FRANKFURT	348	VOR	CHA	485516N 090223E	60/500			500	17	37					
				NOR	HASVIK	6100	GBAS	ENHK	702913N 220833E	23/100		100	13						
			BUL	MOSJOEN/KJAEERSTAD	6089	GBAS	ENMS	564687N 131306E	23/100		100	13							
			RUSE	GORNA	5495	VOR/DME	RUS	433900N 255900E	150/500	150/500	500	20	37				PLANNED/TEST		
			F	LA TOUR-DU-PIN	5227	VOR/DME	LTP	452920N 052621E	80/500	80/500	500	17	36						
			HOL	DEN HELDER	4047	VOR/DME	HDR	@525425N 044557E	120/250	120/250	250	14	37						
			NOR	BERGEN/FLESAND	3424	VOR/DME	FLS	@601840N 051244E	150/500	150/500	500	17	37						
			ALG	ILLZI	35	VOR/DME	ILZ	264315N 083809E	200/500	150/500	500	17	30						
			E	CASTEJON	6652	VOR/DME	CJN	402219N 023241W	100/500	100/500	500	23	37						
			F	STRASBOURG	1387	VOR/DME	STR	@483019N 073419E	150/500	150/500	500	17	40						
			G	LAMBOURNE	1708	VOR/DME	LAM	@513846N 000906E	110/500	110/500	500	17	39						
			I	FROSINONE	2155	VOR/DME	FRS	415833N 131732E	60/250	60/250	250	17	38						
115.600	103X		ISR	ZOFAR	2366	VOR/DME	ZFR	303332N 350943E Alt=60	40/500	40/500		500	17	37					
				POL	JEDOW/JEDRZEJOW	2676	VOR/DME	JED	@503850N 201504E	150/500	150/500	500	20	37					
			NOR	RORVIK	6096	GBAS	ENRM	645014N 110820E	23/100		100	13							
			VADSO	6085	GBAS	ENVD	700359N 294959E	23/100		100	13								
			D	HAMM	462	VOR/DME	HMM	@516125N 074230E	60/500	60/500	500	23	39						
			F	EPERNON	4678	VOR/DME	EPR	483732N 013924E	60/500	60/500	500	17	37						
			I	BRESCIA/MONTICHIARI	61505	VOR/DME	BSM	452621N 101910E	60/250	60/250	250	17	37						
			MRC	OUJDA/ANGADS	34342	VOR/DME	VDC	344657N 016738W	150/500	150/500	500	20	30						
			TUR	CESME/ALACATI	65687	VOR/DME	CSM	381443N 282532E	100/500	100/500	500	17	27						
			ALG	BATNA/M.BEN BOULAID	4441	VOR/DME	BTN	354617N 062038E	200/500	200/500	500	17	37						
			BEL	GOSLY	122	VOR/DME	GSY	502714N 042629E	30/260	30/260	260	15	29					Real Power = 370dB To be decrease	
			CZE	CHEB	228	VOR/DME	CKG	@500358N 122421E	80/500	80/500	500	20	37						
FIN	JOENSUU	1455	VOR/DME	JNS	623938N 293538E	100/500	100/500	500	17	37									
G	TRENT	1849	VOR/DME	TNT	@530314N 014012W	100/500	100/500	500	20	39									
HRV	SPLIT	6060	VOR/DME	SPL	432948N 161817E	100/500	100/500	500	17	37									
MLT	MALTA	5388	VOR/DME	GZO	360214N 141219E	250/500	250/500	500	17	38									
MRC	FESSAIS	2459	VOR/DME	FES	335650N 050049W	60/500	60/500	500	17	37									
UKR	VINNYTSIA	66707	VOR/DME	VNN	491342N 283758E	200/500	200/500	500	17	37									
NOR	STOKMARKNES/SKAGEN	6090	GBAS	ENSK	683455N 150128E	23/100		100	13										
GRC	THESSALONIKI/MAKEDONIA	72446	GBAS	LGTS	403100N 228800E Alt=6	23/100		100	15										
115.750	104Y		BLR	HRODNA	6747	VOR/DME	GRD	533828N 240321E	80/500	80/500		500	23	37					
				D	NURNBERG/NURNBERG	5975	VOR/DME	NUB	493011N 110205E	50/500	50/500	500	22	38					
			I	FORLI	8160	VOR/DME	FOL	441137N 120404E Alt=29	40/250	40/250	250	17	38						
			SUI	GENEVA	6033	VOR/DME	GVA	461514N 060756E	50/250	50/250	250	23	37						
			AZE	GANJA	6729	VOR/DME	GND	404513N 461744E	100/500	100/500	500	20	37						
			E	ALBACETE	6508	VOR/DME	VAB	385650N 016134W	100/250	200/500	500	17	37						
			FIN	KAUNIS	1465	VOR/DME	KNS	652714N 272705E	100/500	100/500	500	17	37						
			GRC	RODOS	5327	VOR/DME	RDS	362000N 280500E	200/500	200/500	500	20	37						
			HNG	BEKES	4346	VOR/DME	BKS	464800N 210400E	100/500	100/500	500	17	37						

COM3- List of national and international assignments in Frequency order

VHF Channel	DME Channel	MLS Channel	CTY	Location	SAFIRE Ref	Service	Rwy Designat Id or	Co-ordinates	TRD	VHFDOC	DMEDOC	MLSDOC	MaxFL	VHF EIRP	DME EIRP	Remarks
115.800	105X		I	VERONA/VILLAFRANCA	2280	VOR/TAC	VIL	452429N 105422E		60/400	60/400		400	17	38	MIL
				FOGGIA	5926	VOR/DME	FGG	412546N 153153E Alt=85	40/250	40/250	250	17	38			
				CASEMENT	2286	VOR/DME	BAL	531800N 062652W	80/350	80/350	350	17	42			
				ALL ISRAEL	2346	VOR/TAC	AI	ISRAEL(LAND)	40/250	40/250	250	17	40	MOBILE		
				DAKHLA	2454	VOR/DME	DKH	234441N 155511W	100/500	100/500	500	17	37			
				ALESUND/VIGRA	9004	VOR/DME	VIG	623307N 060204E	25/62	25/100	100	17	37			
				POZNAN/LAWICA	4069	VOR/DME	LAW	522520N 164949E	100/500	100/500	500	20	37			
				JONKOPING	4701	VOR/DME	JON	574538N 140356E	100/500	100/500	500	17	39			
				GALLAC/CASTELNAU	1153	VOR	GAI	@435716N 014927E	100/500		500	17				
				DIEPPE	1127	VOR	DPE	495531N 011014E	40/500		500	17				
115.850	105Y		D	LEIPZIG	3341	VOR/DME	LEG	512610N 122825E	100/500	100/500	500	23	39			
				ISTANBUL/SABIHA GOKCEN	42007	VOR/DME	SGN	405405N 292040E	40/250	40/250	250	17	28	DHMI		
				KERKIRA	72445	GBAS	LQKR	393600N 195000E Alt=1	23/100		100	15		GLASS EXPERIMENTAL OPERATION		
				BOU SAADA	18	VOR/DME	BSA	351956N 041230E	200/500	200/500	500	17	37			
				GRAF IGNATIEV	4988	VOR/TAC	GRY	421700N 244300E	40/250	40/250	250	17	29	MIL		
115.900	106X		E	BILBAO	6649	VOR/DME	BLV	@431816N 023609W	150/500	150/500	500	23	37			
				PARNU	4788	VOR/DME	PRN	582500N 242758E Alt=3	30/500	30/500	500	20	30			
				DEKELIA/TATOI	6071	VOR/DME	DTA	380600N 234600E	40/250	40/250	250	17	29	MIL		
				TAIOSAP	2011	VOR/DME	TPS	473000N 192700E	100/500	100/500	500	17	37			
				PESCARA	2214	VOR/DME	PES	422609N 141103E Alt=9	80/500	80/500	500	23	37			
				KAZ	66385	VOR/DME	TRZ	425214N 171654E	100/500	100/500	500	20	30			
				KYIV/BORISPOL	TARAZ	4986	VOR/DME	BRP	501708N 305404E	150/500	160/500	500	20	37		
				BEAUVAIS	64685	VOR	BVS	492611N 020912E	40/250		250	17				
				KARLSRUHE	497	VOR/DME	KRH	485935N 083503E	60/500	60/500	500	26	39			
				CHATEAUDUN	4756	VOR/DME	CAD	@490333N 012313E	80/500	80/500	500	17	37			
116.000	107X		NOR	OSLO/GARDERMOEN	4056	VOR/DME	GRM	601130N 110428E	60/250	60/250	500	17	36			
				SARAJEVO	6321	VOR/DME	KIS	440106N 180347E	25/500	25/500	500	17	24			
				CALAMOCCHA	825	VOR/DME	CMA	405202N 011753W	60/500	60/500	500	23	37			
				CAMPBLETOWN	6293	VOR/DME	MAC	552548N 053901W	150/500	150/500	500	17	39			
				TORTOLI	4029	VOR/DME	ARB	395000N 094100E	25/100	25/100	100	17	36	Planned		
				NADOR/ELAROUJ	4721	VOR/DME	ARI	345912N 030145W	100/500	100/500	500	20	30			
				ARLANDA	2826	VOR/DME	ARL	593912N 175452E	100/500	100/500	500	17	37			
				LA GOMERA	3036	VOR/DME	LGM	280144N 171254W	200/500	200/500	500	20	37			
				TROYES/BARBEREY	1419	VOR	TRO	481504N 035747E	60/500		500	17				
				ALL GREECE	5691	VOR	TST	ALL GREECE(LAND)	40/500		500	17		TEST - MOBILE		
116.050	107Y		D	ALL GERMANY	5741	VOR/TAC	LAND	ALL GERMANY(LAND)	100/500	100/500	500	23	40	MOBILE AND TEST OF NAV INSTALLATIONS		
				VALENCIA	6523	VOR/DME	VLC	392908N 002800W	60/500	200/500	500	20	37			
				ALL SPAIN	802	VOR/DME	ALL	SPAIN(LAND)	60/250	60/250	250	17	37	MOBILE EQUIPMENT		
				PARIS/LE BOURGET	6829	VOR/DME	BT	485829N 022719E	40/250	40/250	250	20	28			
				NYREGYHAZA	4956	VOR/DME	NYR	475900N 214100E	40/500	40/500	500	15	37			
				BIELLA	4969	VOR/DME	BLI	452339N 000602E	25/250	40/250	250	17	38			
				PANTELLERIA	2208	VOR/DME	PAN	364852N 115757E	100/500	100/500	500	17	38			
				KAZ	TALDYKORGAN	63851	VOR/DME	TDK	450622N 782548E	100/500	100/500	500	20	30		
				GDANSK	6864	VOR/DME	GZD	542316N 182531E	100/400	100/400	400	20	37			
				BLACE	3397	VOR/DME	BLC	431456N 212142E	60/500	60/500	500	17	37			
116.100	108X		HNG	NYREGYHAZA	4956	VOR/DME	NYR	475900N 214100E	40/500	40/500	500	15	37			
				BIELLA	4969	VOR/DME	BLI	452339N 000602E	25/250	40/250	250	17	38			
				PANTELLERIA	2208	VOR/DME	PAN	364852N 115757E	100/500	100/500	500	17	38			
				KAZ	TALDYKORGAN	63851	VOR/DME	TDK	450622N 782548E	100/500	100/500	500	20	30		
				GDANSK	6864	VOR/DME	GZD	542316N 182531E	100/400	100/400	400	20	37			
				BLACE	3397	VOR/DME	BLC	431456N 212142E	60/500	60/500	500	17	37			
				ALL CANARY	9046	VOR/DME	ALL	CANARY(ALL CNR)	60/250	60/250	250	20	37	MOBILE EQUIPMENT		
				SULZ	677	VOR	SUL	482254N 083841E	60/250		250	26				
				ROST	6983	GBAS	ENRS	673133N 120617E	23/100		100	13				
				ALL GERMANY	3555	VOR/DME	ALL	GERMANY(LAND)	40/250	40/250	250	23	39	MOBILE		
116.150	108Y		D	ALL GERMANY	5741	VOR/TAC	LAND	ALL GERMANY(LAND)	100/500	100/500	500	23	40	MOBILE AND TEST OF NAV INSTALLATIONS		
				ANTALYA/ANTALYA	69025	VOR/DME	LRA	365504N 304840E	40/250	40/250	250	17	37	DHMI		
				HAVALIMANI	465719N 152658E											
				GRAZ	66	VOR/DME	GRZ	465720N 152659E	60/500	60/500	500	17	35			
				NORVENICH	611	VOR/TAC	NVO	504922N 063912E	60/500	60/500	500	23	36			
				BAILLEN	813	VOR/DME	BLN	380990N 033730W	100/500	100/500	500	23	37			
				COGNAC/CHAT.BERNAR	1106	VOR/TAC	CGC	453941N 001828W	100/500	100/500	500	17	40			
				TAMPERE-PIRKKALA	1503	VOR/DME	PIR	612500N 233600E	60/500	60/500	500	17	37			
				TRIPOLIS	1985	VOR/DME	TRL	@372400N 222000E	150/500	150/500	500	23	38			
				RIMINI	2229	VOR/TAC	RIM	Alt=17, 10	40/250	40/250	250	17	39	MIL		
116.200	109X		D	RZESZOW/JASIONKA	2695	VOR/DME	RZE	500629N 220108E	80/500	80/500	500	20	37			
				BATMAN	4222	VOR/DME	BAT	375615N 410712E	100/500	100/500	500	17	37			
				TENERIFE NORTE	3040	VOR/DME	LRO	282980N 162106W	200/500	200/500	500	20	37			
				VARDO	6097	GBAS	ENSG	702111N 510238E	23/100		100	13				
				PERPIGNAN	1319	VOR/DME	PPG	@424502N 025202E	100/500	100/500	500	17	37			
				BARKWAY	1540	VOR/DME	BKY	515923N 000343E	40/250	40/250	250	20	39			
				PAPA	70406	VOR/TAC	PPA	472254N 172928E	60/500	100/500	500	17	40			
				CATANIA/FONTANAROS	5951	VOR/DME	CTF	372752N 150346E Alt=5	200/500	200/500	500	23	38	MIL		
				GAZIPASA	73405	VOR/DME	GZV	361756N 321557E	60/400	60/400	400	17	37	DHMI		
				KHERSON	56985	VOR/DME	KHE	464033N 323007E	160/500	200/500	500	20	37	DVOR		
116.300	110X		ALG	TIARET/BOU CHEKIF	52	VOR/DME	TRB	352052N 013054E	200/500	150/500	500	17	37			
				HELGOLAND	476	VOR/DME	DHE	@541108N 073439E	200/500	200/500	500	26	38			
				STORUMAN	3398	VOR/DME	SUM	645722N 174230E	100/500	100/500	500	17	37			
				KRALJEVO	3610	VOR/DME	KRV	434916N 203504E	60/500	60/500	500	17	29			
				EKILET/KAYSERI	3162	VOR/DME	KSR	384632N 353119E	100/250	25/100	250	17	27			
				TEKIRDAG	3183	VOR/DME	EKI	405704N 272534E	80/500	80/500	500	17	37			
				BRNO	71345	GBAS	BRO	491010N 164030E	23/100		100	17		TESTING GBAS		
				ALL GERMANY	267	VOR/TAC	ALL	GERMANY(LAND)	100/500	100/500	500	23	40	MOBILE		
				SANTIAGO	6696	VOR/DME	STG	@425537N 082531W	200/500	200/500	500	23	43			
				POLLENSA	6690	VOR/DME	POS	395539N 030652E	60/250	60/250	250	23	38	DVOR		

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VHF Channel	DME Channel	MLS Channel	CTY	Location	SAFIRE Ref	Service	Rwy Designat Id or	Co-ordinates	TRD	VHFDOC	DMEDOC	MLSDOC	MaxFL	VHF EIRP	DME EIRP	Remarks	
116.400	111X	G	DAVENTRY	4122	VOR/DME	DTY	@521048N 010650W	75/500	75/500	500	17	39					
		GRC	FISKA	1914	VOR/DME	FSK	@410600N 230000E	150/500	150/500	500	17	38					
		I	BAR/PALAESE	4807	VOR/DME	BAR	410839N 164635E Alt=30	80/250	80/250	250	17	36					
		KAZ	ALMATY	63645	VOR/DME	ATA	432236N 770503E	100/500	100/500	500	20	30				DVOR	
		UKR	MYKOLAV	70285	VOR/DME	MKL	470409N 315621E	160/500	200/500	500	17	37					DVOR
116.425	D	CNR	TENERIFE SUR	9043	VOR/DME	TFS	280009N 164117W	200/500	200/500	500	20	37					
		D	FRANKFURT/MAIN	7186	GBAS	EDDF	500136N 083115E 402808N 033327W	40/100		100	19					SLOTS: A-Z, RPDS & RSDS: 0-486, RPI: G25A - G25Z (26) & G07A - G07Z (26), Autoland, Expanded Service Volume	
116.450	111Y	E	MADRID/BARAJAS	6672	VOR/DME	BRA	402808N 033328W	60/250	200/500	500	17	37					
116.500	112X	ALG	TLEMCE/ZENATA	56	VOR/DME	TLM	350054N 012446W	200/500	200/500	500	16	30					D-VOR
		AZE	NAKHICHEVAN	6728	VOR/DME	NAX	391206N 452627E	100/500	100/500	500	20	37					DVOR
116.550	D	EST	AMARI	6078	VOR/TAC	AMI	591602N 241448E Alt=13 @431310N 063608E	80/500	80/500	500	20	27					
		F	SAINT-TROPEZ	1374	VOR/DME	STP	431310N 063607E	200/500	200/500	500	17	36					
116.600	113X	GRC	ASTIPALEA	1897	VOR/DME	ASL	363500N 262200E	50/250	50/250	250	17	28					TVOR - ML
		MRC	RABAT/SALE	2473	VOR/DME	RBT	340300N 064447W	60/250	60/250	250	17	37					
116.650	D	SVK	NITRA	3649	VOR/DME	NIT	@481726N 180302E	80/500	80/500	500	17	37					
		TUN	TUNIS/CARTHAGE	4360	VOR/DME	TUC	365106N 101349E	100/500	100/500	500	17	30					
116.700	114X	UKR	KHARKIV	5684	VOR/DME	KHR	495544N 361728E	150/500	160/500	500	20	37					
		D	NIENBURG	602	VOR	NIE	523733N 092219E	40/250		250	26						
116.750	114Y	F	PITHIVIERS	1324	VOR	PTV	@480920N 021553E	100/500		500	17						
		D	MANCHING	6954	GBAS	ETSI	484300N 113200E	20/100		100	19						SLOTS A-H RPDS/RSDS 0-20
116.800	115X	JAGEL	FRANKFURT/MAIN	6929	GBAS	GLSF	500200N 083400E	40/100		100	19						SLOTS A-H RPDS/RSDS 0-20
		ZEMMOURI	ZEM	58	VOR/DME	ZEM	364743N 033415E	200/500	200/500	500	17	37					SLOTS A-H RPDS/RSDS 0-20
116.850	115Y	ALG	VESTA	5828	VOR/DME	VES	@553600N 081800E	200/500	200/500	500	17	37					
		E	VITORIA/VITORIA	938	VOR/DME	VRA	424355N 025156W	40/250	40/250	250	17	37					TVOR
116.900	116X	GRC	SKYROS	5572	VOR/DME	SKS	385900N 242900E	40/250	40/250	250	17	29					TVOR
		POL	MODLIN	6890	VOR/DME	MOL	522709N 204040E	100/400	100/400	400	20	37					
116.950	116Y	SRB	VALJEVO	3308	VOR/DME	VAL	441826N 195229E	100/500	100/500	500	17	37					
		SUI	PASSEIRY	5799	VOR/DME	PAS	460949N 060000E	80/500	80/500	500	20	37					
117.000	117X	UKR	SIMFEROPOL/ZAVODSKE	4243	VOR/DME	SMF	450200N 335900E	200/500	200/500	500	20	37					
		NOR	NAMOS	6086	GBAS	ENNM	642817N 113353E 530200N 084600E	23/100		100	13						
117.050	117Y	D	BREMEN	6897	GBAS	EDDW	530200N 084600E Alt=4,18 @435602N 182659E	25/100		100	19						SLOTS A-H, RPDS/RSDS 0-20, RPI: G09A, G09D, G27B, G27E
		BIH	SARAJEVO	5403	VOR/DME	KEB	Alt=1541 570614N 095944E	150/500	150/500	500	17	37					
117.100	118X	DNK	AALBORG	5817	VOR/TAC	AAL	411826N 020628E	100/500	100/500	500	17	40					
		E	BARCELONA	6512	VOR/DME	BCN	411826N 020629E	60/500	60/500	500	20	37					DVOR
117.150	118Y	F	MOULINS	1262	VOR/DME	MOU	464224N 033754E	80/500	80/500	500	17	36					
		MRC	QUARZARZATE	2466	VOR/DME	FGI	413008N 090500E	40/250	40/250	250	17	37					
117.200	119X	TUR	AGRI	4234	VOR/DME	ARI	393845N 430138E	50/250	50/250	250	15	37					
			GAZIANTEPE/OGUZELI	5274	VOR/DME	GAZ	365706N 372823E 371508N 274006E	60/400	60/400	400	17	37					
117.250	119Y	BLR	MAHILIOU	6742	VOR/DME	MGL	535710N 300544E	80/500	80/500	500	23	37					
		E	TABANERA	4564	VOR/DME	NEA	420139N 040633W	100/500	100/500	500	20	37					
117.300	120X	I	TORINO/CASELLE	2263	VOR/DME	CSL	451311N 073858E	45/250	45/250	250	17	37					
		G	TALAVERA LA REAL	919	VOR/DME	VBZ	385324N 064857W	180/250	180/250	250	17	37					
117.350	120Y	HOL	SHAWBURY	4120	VOR/DME	SWB	524752N 023944W	100/500	100/500	500	17	37					MIL
		POL	KMIECIN	2685	VOR/DME	RKN	520800N 064550E	80/500	80/500	500	14	37					
117.400	121X	SRB	TOPOLA	4759	VOR/DME	KMI	541200N 190900E	100/500	100/500	500	20	37					Planned upgrade to DVOR DME
		F	SAUVETERRE-DE-GUYE	1381	VOR	TPL	440837N 204440E	80/500	80/500	500	17	37					
117.450	121Y	HOL	REKKE	2057	VOR/DME	SWB	524752N 023944W	100/500	100/500	500	17	37					
		S	DUNKER	2835	VOR	SAU	@444037N 000911W	40/250		250	17						
117.500	122X	D	STUTTART	6982	VOR/DME	DKR	591226N 170044E	80/500	80/500	500	17						
		E	REUS	40466	VOR/DME	STG	484147N 091524E	60/250	60/250	250	23	39					DVOR
117.550	122Y					RES	410838N 010942E	200/500	200/500	500	23	37					Future requirement
							@585230N 053924E										
117.600	123X	NOR	STAVANGER/SOLA	4055	VOR/DME	ZOL	585230N 053825E	150/500	150/500	500	17	36					
		BIH	MOSTAR	5435	VOR/DME	MSR	431541N 175121E Alt=65	70/500	70/500	500	17	37					
117.650	123Y	G	ALL UK	1537	VOR/DME	ALL UNITED	KINGDOM(LAND)	100/500	100/500	500	17	37					MOBILE
		GRC	ANDRAVIDA	8992	VOR/DME	ANV	375600N 211700E	100/250	100/250	250	20	37					MIL
117.700	124X	SUI	WILLISAU	6122	VOR/DME	WIL	@471042N 075421E	50/250	80/250	250	20	37					
		TUR	MARDIN	4593	VOR/DME	MRD	371340N 403819E	100/400	100/400	400	17	37					
117.750	124Y	NOR	BIGA	3115	VOR/DME	BIG	401704N 272159E	80/500	25/100	500	17	17					
		GRC	MEHAMM	6095	GBAS	ENMH	710152N 274952E	23/100		100	13						
117.800	125X	CZE	VOZICE	31385	VOR/DME	VOZ	493156N 145229E	80/500	80/500	500	17	37					
		E	MADRID/PERALES	6675	VOR/DME	PDT	401511N 032053W	60/500	60/500	500	17	37					DVOR
117.850	125Y	G	ALL UK	1538	VOR/DME	ALL UNITED	KINGDOM(LAND)	100/500	100/500	500	17	37					MOBILE
		I	NAPOLI	5880	VOR/DME	POM	405500N 142300E	40/250	40/250	250	17	38					planned 2021
117.900	126X	ALB	ALBENGA	4918	VOR/DME	ALB	440253N 080739E Alt=41	100/250	100/250	250	17	38					
		LVA	LIEPAJA	6128	VOR/DME	LEP	563046N 210505E	40/500	40/500	600	13	37					DVOR
117.950	126Y	ALG	ZARZAITINE/IN AMENAS	61915	VOR/DME	IMN	280259N 093333E	200/500	200/500	500	17	37					
			ECH CHLEF	5695	VOR/DME	CLF	361248N 011920E @504538N 000718E	40/250	40/250	250	17	37					
118.000	127X	G	SEAFORD	1817	VOR/DME	SFD	Alt=91	120/500	120/500	500	23	39					En-route Nav, increase sector UR to 75nm
		MRC	BOUARFA	5777	VOR/DME	BRF	323051N 020150W	200/500	200/500	500	20	37					
118.050	127Y	SRB	MITROVICA	3282	VOR/DME	SMI	450034N 192551E	100/500	100/500	500	11	37					

COM3- List of national and international assignments in Frequency order

VHF Channel	DME Channel	MLS Channel	CTY	Location	SAFIRE Ref	Service	Rwy Designat Id or	Co-ordinates	TRD	VHFDOC	DMEDOC	MLSDOC	MaxFL	VHF EIRP	DME EIRP	Remarks
117.000	117X		TUN	TOZEUR/NEFTA	4361	VOR/DME	TON	335628N 080601E		135/300	135/300		300	17	37	
117.050	117Y		E	CASTELLON	6653	VOR/DME	CTN	401308N 000521E	40/250	40/250			250	17	27	
			F	PARIS/CH.DE GAULLE	1299	VOR/DME	PGS	485958N 023726E	110/500	110/500			500	17	37	
			I	BOLZANO	2119	VOR/DME	OZE	462419N 1111732E	40/250	40/250			250	17	38	
			F	ALL FINLAND	1433	VOR		ALL FINLAND(LAND) @413148N 053823W		100/500			500	17		MOBILE
117.100	118X		E	ZAMORA	6706	VOR/DME	ZMR	413148N 053823W	200/500	200/500			500	23	43	
			HNG	PUSZTASZABOLCS	4348	VOR/DME	PTB	470900N 184500E	100/500	100/500			500	17	37	
			I	CROATIA	6833	VOR/DME	CRN	385846N 170459E @443213N 111728E	150/600	150/600			600	17	38	
				BOLOGNA/BORGIO PANI	2113	VOR/DME	BOA	AI=35	50/400	120/400			400	17	38	
			MRC	ERRACHIDIAM ALI CHERIF	2456	VOR/DME	ERA	315527N 042138W	200/500	200/500			500	17	37	
			ROU	BUCURESTI/OTOPENI	4378	VOR/DME	OPT	443500N 263300E	100/500	100/500			500	17	37	
			S	TEBBY	3605	VOR/DME	TEB	591154N 181212E	100/250	100/250			250	17	37	
			F	LUXEUIL	1210	VOR	LUL	@474118N 061744E	80/500	80/500			500	17	37	
117.150	118Y		D	FRIEDLAND	4289	VOR/DME	FLD	534546N 133347E	60/500	60/500			500	23	39	
			E	MALAGA	6960	VOR/DME	AGP	364104N 042914W	120/500	120/500			500	20	37	
				LONDON HEATHROW GBAS SOUTH	29808	GBAS	LHRS	512800N 002547W	23/100				100	17		Heathrow GBAS South
117.200	119X		F	ALL FRANCE	992	VOR/DME		ALL FRANCE(LAND)	40/250	40/250			250	17	37	
			G	BELFAST	1546	VOR/DME	BEL	@543940N 061348W	200/500	200/500			500	23	39	
			GRC	DIDIMON	1911	VOR/DME	DDM	372900N 231300E	80/500	80/500			500	23	42	
			MRC	AGADIRAL MASSIRA	2445	VOR/DME	ADM	301919N 092300W	200/500	200/500			500	17	37	
			SVN	LIUBLJANA	6844	VOR/DME	LBL	461419N 142543E	50/250	50/250			250	20	37	
117.250	119Y		I	TREZZO	36185	VOR/DME	TZO	453333N 093026E	60/500	60/500			500	17	37	
117.300	120X		D	HEHLINGEN	4211	VOR/DME	HLZ	522148N 104743E 522148N 104744E 403846N 034409W	80/500	80/500			500	23	39	
			E	COLMENAR VIEJO	6656	VOR/DME	CNR	403846N 034409W	100/500	100/500			500	23	43	
			F	ROLAMPONT	1349	VOR/DME	RLP	@475423N 051457E	120/500	120/500			500	17	36	
				MARTIGUES	1227	VOR/DME	MTG	@432311N 050513E	200/500	200/500			500	17	36	
			FIN	ORIMATTILA	4563	VOR/DME	CRM	605001N 254544E	60/500	60/500			500	17	37	
			G	DELING	1630	VOR/DME	DET	511814N 003550E	60/500	60/500			500	17	39	
			HNG	BUDAPEST/FERIHEGY	6077	VOR/DME	BUD	472700N 191500E	100/500	100/500			500	17	37	
			I	CARAFFA	2131	VOR/TAC	CDC	384521N 162208E	200/600	200/600			600	17	39	MIL
			MRC	TETOUAN/SANIAT RMEL	2479	VOR/DME	TTN	353542N 051929W	60/500	60/500			500	17	37	
			POL	MRASOWO	4804	VOR/DME	MRA	@534706N 210758E	150/450	150/450			450	20	37	
			TUR	ISTANBUL/BEYKOZ	4716	VOR/DME	BKZ	@410737N 290834E	120/500	120/500			500	17	37	
117.350	120Y		F	ORLEANS/BRICY	7162	VOR/DME	BCY	475907N 014520E	100/250	100/250			250	20	37	
			G	SUMBURGH	1841	VOR/DME	SUM	595244N 011712W	200/500	200/500			500	17	39	
			HRV	LOSINJ	55335	VOR/DME	NTL	443359N 142228E AI=58	100/500	100/500			500	20	37	MIL
								682726N 164055E					500	17	36	
117.400	121X		NOR	EVENES	4276	VOR/DME	EVD	682726N 164054E	100/500	100/500			500	17	37	
			BEL	NICKY	145	VOR/DME	NIK	@510954N 041102E	100/500	100/500			500	17	37	
			DNK	TRANO	5836	VOR/DME	TNO	554827N 112621E	60/500	60/500			500	17	37	
			E		872	VOR/DME	MLL	515127N 023719W	80/250	80/250			250	17	37	
				ANDRAITX	4572	VOR/DME	DRA	393200N 022400E	150/500	150/500			500	20	37	
			HRV	BARNA	7143	VOR/DME	VBA	454452N 170848E	80/500	80/500			500	20	37	
			IRL	CONNAUGHT	2289	VOR/DME	CON	535429N 084912W 530247N 084538E	100/500	100/500			500	20	39	
			NOR	ALTA	2497	VOR/DME	ATA	698339N 232219E	60/500	60/500			500	17	37	
				TOLGA	2649	VOR/DME	TGA	622742N 105244E	60/250	60/250			250	17	37	
			TUR	CENGIZ-TOPEL	4598	VOR/DME	CTP	404415N 300417E	80/250	80/250			250	17	37	
117.450	121Y		CZE	OSTRAVA	5444	VOR/DME	OTA	494151N 180633E	100/500	100/500			500	20	37	
			D	BREMEN	6143	VOR/DME	BMN	530246N 084538E	60/500	60/500			500	23	37	
			F	BALEMULHOUSE	4098	VOR/DME	BLM	@473758N 072958E	100/500	100/500			500	17	37	
			G	BRECON	4138	VOR/DME	BCN	@514332N 031547W	65/500	125/500			500	17	39	
			MRC	BEN SLIMANE	5716	VOR/DME	BNS	333831N 071229W @424082N 234850E	200/500	200/500			500	20	37	
117.500	122X		BUL	BALOVO	180	VOR/DME	BLO	AI=920 @494728N 083233E	125/500	125/500			500	20	37	AIP
			D	FRANKENSTEIN	62245	VOR/DME	FKS	AI=91	60/500	60/500			500	23	37	
			F	THIERS	5398	VOR/DME	TIS	456255N 033313E	60/250	60/250			250	17	37	
			G	TURNBERRY	1808	VOR/DME	TRN	@551848N 044702W	200/500	200/500			500	17	39	
				BROOKMANS PARK	1589	VOR/DME	BPK	@514459N 000624W	80/500	80/500			500	17	39	
			GRC	ATHINA/EL VENIZELOS	4875	VOR/DME	SPA	375600N 235600E	40/250	40/250			250	17	37	
			MRC	OUJDA/ANGADS	2469	VOR/DME	QJD	344624N 015701W	150/500	150/500			500	17	37	
			TUR	ISPARTA	4228	VOR/DME	IPT	375032N 302014E	60/400	50/400			400	20	37	
			AZE	NAKHICHEVAN	68487	GBAS	UBBN	391152N 452658E	30/100				100	19		
117.550	122Y		BEL	HULDENBERG	134	VOR/DME	HUL	504458N 043830E	40/250	40/250			250	17	37	
			D	NOERDLINGEN	604	VOR/DME	NDG	485000N 102500E	60/500	60/500			500	20	37	
			E	CALLES	826	VOR/DME	CLS	394228N 095911W	100/500	100/500			500	20	37	
			NOR	BODO	3425	VOR/DME	BDO	671600N 142154E	200/500	200/500			500	17	37	
			I	BARIPALESE	27643	GBAS	BRP	410813N 164501E AI=30	23/100				100	17		
117.600	123X		ALG	EL OUEDI/GUEMAR	27	VOR/DME	ELO	333038N 064650E	200/500	200/500			500	17	37	
			F	CHATILLON-SUR-MARNE	1096	VOR/DME	CTL	@490816N 033440E	100/500	100/500			500	17	37	
			R	CHIOSMESTA	6854	VOR/DME	MES	@381500N 258400E	150/500	150/500			500	23	37	
			ROU	BRASOV	2779	VOR/DME	BRV	453400N 253400E	175/500	175/500			500	20	37	
			S	BORLANGE	2833	VOR/DME	BOR	602517N 153109E	100/500	100/500			500	17	37	
117.650	123Y		E	BILBAO	40465	VOR/DME	BLV	@431816N 025532W	200/500	200/500			500	23	37	
								ALL								Future requirement
117.700	124X		HOL	ALL NETHERLANDS	2019	VOR/DME	ANV	NETHERLAND(LAND)	100/500	100/500			500	20	37	
			ALB	TIRANA/RINAS	3	VOR/DME	TRN	412458N 194306E AI=30 530204N 113246E	60/250	60/250			250	17	37	
			D	BRUNKENDORF	4184	VOR/DME	BKD	530204N 113247E	80/500	80/500			500	23	39	
			E	PALMA DE MALLORCA	6521	VOR/DME	JOA	393353N 024448E	40/250	40/250			250	17	37	

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VHF Channel	DME Channel	MLS Channel	CTY	Location	SAFIRE Ref	Service	Rwy Designat Id or	Co-ordinates	TRD	VHFDOC	DMEDEC	MLSDOC	MaxFL	VHF EIRP	DME EIRP	Remarks
117.700	124X		F	T LOULOUSE/BLAGNAC	5886	VOR/DME	TOU	@434051N 011835E		120/500	120/500		500	17	37	
			FIN	ROVANIEMI	1497	VOR/DME	ROI	663345N 254913E		60/500	60/500		500	17	37	
			G	TIRÉE	1848	VOR/DME	TIR	@562936N 065232W		200/500	200/500		500	20	39	
			HNG	SAGVAR	2009	VOR/DME	SVR	465000N 180700E		100/500	100/500		500	17	37	
			I	BRESCIA/MONTICHIARI	4613	VOR/DME	BSA	452617N 101658E		40/250	40/250		250	17	38	TVOR DOPPLER
			NOR	SIGDAL	4277	VOR/DME	SIG	600054N 093748E		100/500	100/500		500	17	36	
			POL	SUWALKI	2698	VOR/DME	SUW	540411N 225401E		100/500	100/500		500	20	37	
			TUR	IGDIR	7165	VOR/DME	GDR	395821N 435311E		25/100	100/500		500	13	37	
				YALOVA	3189	VOR/DME	YAA	402830N 291227E		100/500	100/500		500	17	37	
				SANLUFRA/GAP	5271	VOR/DME	URF	370539N 389041E		80/400	80/400		400	17	37	
			CNR	TENERIFE NORTE	9041	VOR/DME	TFN	283213N 161608W		200/500	200/500		500	20	37	
117.750			G	HIGHFIELD PARK	3582	VOR	TST	512000N 005800W		05-01-2021			1	17		TRAINING
117.800	125X		D	DINKELSBUHL	353	VOR/TAC	DKB	490834N 101418E		60/500	60/500		500	23	40	
			E	IBIZA	841	VOR/DME	IBA	@385206N 012157E		150/500	150/500		500	20	37	
				VEJER DE LA FRONTE	6702	VOR/DME	VJF	361421N 058831W		100/500	100/500		500	23	37	
			F	QUIMPER/PLUGUFFAN	1331	VOR/DME	QPR	475726N 041105W		150/500	150/500		500	17	37	
			HOL	PAMPUS	2056	VOR/DME	PAM	@322059N 050532E		150/500	150/500		500	17	37	
			HRV	RJEKA	5966	VOR/DME	RJK	451327N 143401E		60/500	60/250		500	20	34	
			POL	KARNICE	2677	VOR/DME	KRN	515647N 202641E		100/500	100/500		500	20	37	
			RUS	KOTLAS	3222	VOR/DME	KTL	611400N 464200E		250/500	250/500		500	17	37	IDOC=250E/150SW-W/80
			S	KARLSTAD	4116	VOR/DME	KSD	592633N 131894E		120/500	120/500		500	17	37	
117.850	125Y		E	MADRID/SAN SEBASTIAN	6519	VOR/DME	SSV	403247N 033431W		40/250	40/250		250	17	37	DVOR
			I	NAPOLI	2194	VOR/DME	POM	405542N 142300E Alt=25		40/250	40/250		250	17	38	
			LVA	VENTSPILS	5873	VOR/DME	VEN	572042N 213138E		170/500	150/500		500	13	37	
117.900	126X		ALG	JUELFERHAT ABBAS	4283	VOR/DME	JIL	364751N 055232E		200/500	200/500		500	17	37	D-VOR
			BIH	OMARSKA	4440	VOR/DME	OMA	445729N 164816E		80/500	80/500		500	17	37	
			CYP	PAPHOS	222	VOR/DME	PHA	344242N 232021E		200/500	200/500		500	17	37	
			E	SAN SEBASTIAN	6522	VOR/DME	SSN	431841N 014850W		25/250	25/250		250	17	27	DOPPLER
			FIN	SAVONLINNA	3567	VOR/DME	SVL	615710N 284451E		60/500	60/500		500	17	37	
			G	MAYFIELD	1775	VOR/DME	MAY	@510102N 000658E		60/250	60/250		250	17	39	
			TUR	IZMIR/A.MENDERES	3156	VOR/DME	MEN	381742N 270931E		160/400	160/400		400	17	37	
117.950 (blank)	100X		D	ALL GERMANY	4419	VOR	TST	ALL GERMANY(LAND)		25/100			100	19		TEST + NIS (DGNSS)
			D	ALTENBURG	3565	DME	AGD						300	40		MIL
			D	HÖHN	4425	TAC	HNT	541839N 093219E		(blank)			300/300	300	40	
			E	SEVILLAMORON OFFSHORE INSTALL(NORTH SEA)	916	TAC	MRN	371924N 053714W		(blank)			150/300	300	37	MIL
			TUR	DALAMAN	31786	DME	EKO	563323N 031325E Alt=0		(blank)			100/85	85	37	ConocoPhillips platform EkoL_dme OPERATED BY AVINOR
			TUR	STALINGEN/STALINGEN	3124	TAC	DAL	364246N 284720E		(blank)			100/400	400	40	
			DNK	MIRSLAWIEC	5729	DME	LME	565934N 092116E		(blank)			60/195	195	37	P-RNAV
			POL	PAJALA	6530	TAC	TMI	532406N 160418E		(blank)			40/100	100	29	
			S	FENGERSFORS	5570	DME	PJL	671456N 230344E		(blank)			120/500	500	37	
			D	DRESDEN-WAX	6029	DME	FEN	585501N 121749E		(blank)			100/500	500	38	
			NOR	MARATHON/KOTRONI	1950	TAC	DND	510746N 134527E		(blank)			25/100	100	28	
			POL	OLEŚNO	6567	DME	OLX	501242N 205608E		(blank)			80/500	500	37	
			ROU	CONSTANTA	68385	DME	TZL	440213N 283725E		(blank)			100/250	250	37	
			BLR	KHATZEHYNA	34806	DME	KTZ	535454N 271652E		(blank)			50/200	200	32	
			D	STUTTGART	3566	DME	SGD	484117N 091327E		(blank)			25/100	100	28	
								535332N 043606W								
			G	DUNDONALD	55245	DME	DUD	Alt=147		(blank)			60/500	500	39	
			HRV	BRAC	6942	DME	BRC	431657N 163721E		(blank)			100/500	500	37	
			D	NIEDERRHEIN	5154	TAC	NID	513600N 080829E		(blank)			40/200	200	27	
			NOR	NORTH SEA	2509	DME	SPA	582200N 015425E		(blank)			60/250	250	30	
			TUR	ANTALYA	3107	TAC	AYT	365433N 304723E		(blank)			200/600	600	40	
				BATMAN	3113	TAC	BAT	375500N 410000E		(blank)			100/300	300	40	
			POL	POWIDZ	4922	TAC	TPW	52237N 175101E		(blank)			200/600	600	26	
			GRC	NEA ANCHALOS	1957	TAC	ANL	381300N 224800E		(blank)			100/250	250	40	
103X			NOR	TORFJELLET	6502	DME	TOF	783852N 155822E		(blank)			160/500	500	37	
				NORDDISKAMPEN	6334	DME	NLK	602828N 105907E		(blank)			50/150	150	27	
			ROU	CENEI	6551	DME	CNI	454300N 205400E		(blank)			100/250	250	28	
			S	MORBÝLANGA	6876	DME	MBL	561823N 162432E		(blank)			100/500	500	37	
			UKR	MALYNIVKA	72907	DME	MLY	465530N 302339E		(blank)			160/500	500	37	
			CNR	GRAN CANARIA SANDHULT	9032	TAC	TGN	275524N 152322W		(blank)			200/500	500	40	MIL
			S	SANDHULT	5968	DME	SDH	574539N 125031E		(blank)			100/500	500	37	
			UKR	UZHHOROD	59905	DME	UZH	483758N 221538E		(blank)			160/500	500	37	
			F	ISTRES	1165	TAC	ITR	433134N 045537E		(blank)			200/500	500	40	
			LTU	SHIALLAI	5336	TAC	SLA	555400N 232400E		(blank)			100/600	600	30	MIL
			S	HOTING	6319	DME	HOT	641403N 155600E		(blank)			100/500	500	37	
			TUR	BANDIRMA	3111	TAC	BDM	402000N 275800E		(blank)			100/400	400	40	
			FIN	ALL FINLAND	6288	DME	ALL	ALL FINLAND(LAND)		(blank)			60/500	500	34	
			D	KARLSRUHE/BADEN HAMBURG/ALSTER	4212	DME	KBD	464849N 080515E		(blank)			40/250	250	39	
					450	DME	ALF	533807N 095939E		(blank)			25/100	100	28	
			F	LORIENT	1206	TAC	LOR	@474541N 032628W		(blank)			250/250	250	40	
			HÖL	SOESTERBERG	2064	TAC	SSB	520800N 051700E		(blank)			40/250	250	35	MIL
			POR	BEJA	2726	TAC	BEJ	380742N 075536W		(blank)			150/300	300	40	
			D	MÜNCHEN	7128	DME	MNT	482200N 114900E		(blank)			25/100	100	27	
			ROU	BUZAU	70906	DME	ISA	450709N 263235E		(blank)			100/250	250	37	
			D	AUGSBURG	279	DME	AUG	482530N 105616E		(blank)			25/100	100	27	
				FRANKFURT-FRED	5853	DME	FRD	500147N 083406E		(blank)			25/100	100	28	
			G	MILDENHALL	1781	TAC	MIL	522148N 002518E Alt=19		(blank)			150/400	400	37	MIL
			ISR	ALL ISRAEL	2347	TAC	ALL	ALL ISRAEL(LAND)		(blank)			40/250	250	40	TEST
			S	SOPPERO	6877	DME	SPO	680531N 214126E		(blank)			100/500	500	37	
			TUR	CORLU	3121	TAC	CLU	410800N 275500E		(blank)			100/300	300	40	
			G	WELSHPOOL	5126	DME	WPL	523747N 030914W		(blank)			15/100	100	24	
				LASHENDEN/HEADCORN	6558	DME	HLS	510915N 003902E		(blank)			15/100	100	27	

COM3- List of national and international assignments in Frequency order

VHF Channel	DME Channel	MLS Channel	CTY	Location	SAFIRE Ref	Service	Rwy Designat Id or	Co-ordinates	TRD	VHFDOC	DMEDOC	MLSDOC	MaxFL	VHF EIRP	DME EIRP	Remarks
(blank)	106Y		POL	NOWY TARG	27423	DME	NTA	492033N 195803E		(blank)	100/500		500		37	
	107X		BEL	BEAUVICHAIN	109	TAC	BBE	504525N 044607E		(blank)	100/250		250		40	MIL
			CYP	AKROTIRI	212	TAC	AKR	343401N 325701E		(blank)	200/500		500		40	
			D	MUNCHEN	5748	DME	DMN	482201N 114739E		(blank)	25/100		100		28	
			POL	SWIDWIN	4992	TAC	TSN	534655N 155107E		(blank)	60/500		500		26	
			SVK	MALACKY	5266	TAC	MLC	482200N 171200E		(blank)	40/250		250		40	MIL
			UKR	KRYVYI RIHLOZUVATKA	4973	DME	KVR	480304N 331244E		(blank)	160/500		500		37	
	107Y		BUL	ALL BULGARIA	6203	TAC	BGT	ALL BULGARIA(LAND)		(blank)	25/100		100		37	MIL
	108X		GRC	SKYROS	1975	TAC	SKY	385800N 242900E		(blank)	70/250		250		40	
			NOR	NORTH SEA	2688	DME	TRL	603849N 034326E		(blank)	40/100		100		30	PLATFORM TROLL
			TUR	ALL TURKEY	3088	TAC		ALL TURKEY(LAND)		(blank)	100/300		300		40	EAST ONLY
	108Y	676	D	ALL GERMANY	3556	MLS/DME		ALL GERMANY(LAND)		(blank)	23/100	23/100	100		27	MOBILE
			FIN	ALL FINLAND	61706	TAC	GIX	605800N 060100E		(blank)	80/500		500		37	
			BUL	KRUMOVO	4985	TAC	KMW	@420400N 245100E		(blank)	60/250		250		40	MIL
			G	BLACKBUSHE	1565	DME	BLC	511924N 005042W		(blank)	50/300		300		29	
			NOR	ERTSRUDBERGET	2953	DME	SVD	561008N 123426E		(blank)	100/500		500		37	
	109Y		POL	OLSZTYN	6335	DME	ERB	501657N 113251E		(blank)	50/150		150		27	
			F	AMBERIEU	30105	DME	OSY	534448N 201551E		(blank)	100/500		500		37	
	110X		IRL	WOLFTRAP	995	TAC	AMU	@459900N 052000E		(blank)	120/500		500		40	planned 2019
			LTU	SIULIAI	5277	DME	WTP	530545N 073529W		(blank)	200/550		550		39	
			POR	FORTO SANTO	5337	TAC	SQQ	555326N 232409E		(blank)	100/500		500		30	
			SVK	MOLDAVA NAD BODVOU	2759	TAC	STO	330431N 162156W		(blank)	200/500		500		40	MIL
			UKR	KERCH	4974	DME	KRH	451836N 362638E		(blank)	80/450		450		37	
	111X		GRC	SANTORINI	1970	TAC	KRH	451836N 362638E		(blank)	200/50		50		37	
			HOL	GILZE-RIJEN	2046	TAC	SAN	362300N 252800E		(blank)	70/250		250		40	
			I	AVIANO	7161	TAC	GZR	513358N 045601E		(blank)	40/250		250		35	
			TUR	MUS	3171	TAC	AVI	460140N 123151E		(blank)	40/250		250		37	MIL USA
	111Y		BLR	MAZYR	40145	DME	MUS	384508N 413922E		(blank)	100/400		400		40	
			NOR	OFFSHORE INSTALL.(NORTH SEA)	7150	DME	MZR	520214N 291130E		(blank)	80/500		500		37	
			D	ALL GERMANY	268	TAC	UL	570640N 025051E		(blank)	100/500		500		37	
	112X		ROU	CAMPIA TURZII	6565	TAC	TCE	ALL GERMANY(LAND)		(blank)	40/250		250		40	MOBILE
			S	FARILA	2838	DME	FRL	463000N 235300E		(blank)	35/250		250		40	MIL
	112Y		BEL	ALL BELGIUM	103	TAC		414906N 155045E		(blank)	100/500		500		37	
			CZE	ALL CZECH REPUBLIC	6217	TAC		ALL BELGIUM(LAND)		(blank)	40/250		250		40	MIL - NOT USABLE IN A ZONE OF 45NM FROM MENDING(D) MLS/DME CH.113Z
			D	ALL GERMANY	269	TAC		ALL CZECH REPUBLIC(LAND)		(blank)	40/500		500		40	NATO
			DNK	ALL DENMARK	3386	TAC		ALL GERMANY(LAND)		(blank)	40/250		250		40	NOT USABLE IN A ZONE OF 46NM FROM BELGIAN BOUNDARY
			E	ALL SPAIN	6148	TAC		ALL DENMARK(LAND)		(blank)	40/250		250		40	MIL
			EST	ALL ESTONIA	5198	TAC		ALL SPAIN(LAND)		(blank)	40/250		250		40	MIL
			F	ALL FRANCE	991	TAC		ALL ESTONIA(LAND)		(blank)	40/250		250		40	LAND MOBILE
			G	ALL UK	3414	TAC		ALL FRANCE(LAND)		(blank)	40/250		250		40	
			H	ALL GIBRALTAR	3422	TAC		ALL UNITED KINGDOM(LAND)		(blank)	40/250		250		40	MIL mobile ground
			GRC	ALL GREECE	3402	TAC		ALL GIBRALTAR(LAND)		(blank)	40/250		250		40	
			HNG	ALL HUNGARY	5129	TAC	HUD	ALL GREECE(LAND)		(blank)	40/250		250		40	MIL
			HOL	ALL NETHERLANDS	2017	TAC		ALL HUNGARY(LAND)		(blank)	40/250		250		37	FOR NATO OPERATION
			HRV	NATIONAL AERODROMES	30274	TAC		ALL NETHERLANDS(LAND)		(blank)	40/250		250		40	NOT USABLE IN A ZONE OF 45NM FROM BELGIAN BOUNDARY
			I	ALL ITALY	2094	TAC		ALL CROATIA(LAND)		(blank)	40/250		250		37	FOR NATO OPERATION
			LTU	ALL LITHUANIA	5177	TAC		ALL ITALY(LAND)		(blank)	40/250		250		40	MIL
			LVA	RIGA	30853	TAC	MIL	ALL LITHUANIA(LAND)		(blank)	40/250		250		40	MIL
			NOR	ALL NORWAY	2491	TAC		ALL LATVIA 2014		(blank)	40/250		250		40	MIL Mobile TAC
			POL	ALL POLAND	4744	TAC		ALL NORWAY(LAND)		(blank)	40/250		250		40	
			ROU	ALL ROMANIA	6260	TAC		ALL POLAND(LAND)		(blank)	40/250		250		38	LAND MOBILE
			SVN	ALL SLOVENIA	30144	TAC		ALL ROMANIA(LAND)		(blank)	35/250		250		40	MIL
			TUR	ALL TURKEY	3095	TAC		ALL SLOVENIA(LAND)		(blank)	40/250		250		40	MIL
			CNR	ALL CANARY	9047	TAC		ALL TURKEY(LAND)		(blank)	40/250		250		40	MIL
	113X		DNK	ESBJERG	33525	DME		ALL CANARY(ALLCNR)		(blank)	40/250		250		40	MIL
			E	ALCANTARILLA	6778	TAC		ESE 553121N 083331E AII=26		(blank)	180/500		500		30	
			S	BUNGE	9020	DME		375701N 011348W		(blank)	40/250		250		37	
			TUR	ETIMESGUT	3139	TAC		BGE 575107N 190147E AII=41		(blank)	100/500		500		37	
	113Y		BUL	DOLNA/MITROPOLIA	5742	TAC		ETI @396727N 324029E		(blank)	150/500		500		40	
	114X		G	ALL UK	34926	TAC		DMT 432700N 243000E		(blank)	70/450		450		38	MIL
			LTU	VILNIS-VALKININKAI	337	DME		CLZ 560100N 032700W AII=0		(blank)	40/250		250		37	
			S	RAMSELE	6320	DME		VLK 545103N 244819E		(blank)	100/500		500		37	
			UKR	BAKHMACH	33667	DME		RAE 633554N 162448E		(blank)	100/500		500		37	
	114Y		D	SAARBROUCKEN	4452	DME		BAH 510354N 325312E		(blank)	160/500		500		37	
			G	HAVERFORDWEST	4142	DME		SAD 491245N 070658E		(blank)	25/100		100		27	
	115X		F	NANCY/OCHERY	3540	TAC		HDW 514955N 045912W		(blank)	50/100		100		27	
			I	TARANTO/GROTTAGLIE	4712	TAC		NAY @483501N 055707E		(blank)	60/250		250		34	
			TUR	ALL TURKEY	3089	TAC		GRT 402921N 172439E AII=65		(blank)	40/250		250		38	MIL M.M.
	115Y		POL	DARLOWO	6958	TAC		TDA ALL TURKEY(LAND)		(blank)	100/400		400		40	WEST ONLY
			ROU	FETESTI	30695	TAC		TDA 542417N 162129E		(blank)	80/100		100		29	
	116X		D	HANNOVER	5690	DME		FTS 442333N 274336E		(blank)	200/450		450		37	MIL
			EST	ALL ESTONIA	5202	TAC		HBO 522719N 093933E		(blank)	25/100		100		28	
			LTU	SIULIAI	5338	TAC		ALL ESTONIA(LAND)		(blank)	40/20		20		40	MOBILE - IMPL. 2004
			MRC	CASABLANCAMOHAMMED V	2451	DME		SLI 555400N 232400E		(blank)	100/600		600		30	MIL
			NOR	GUNNARBERGET	6501	DME		CBA 333117N 0740380W		(blank)	150/500		500		38	
			POL	PSZCZYNA	57265	DME		GUN 773857N 150446E		(blank)	160/500		500		37	
			ROU	CONSTANTA	68388	DME		PSZ 496932N 185104E		(blank)	100/500		500		37	
			TUR	EKILET/KAYSERI	5462	TAC		TZL 435933N 283648E		(blank)	100/250		250		37	
	117X		FIN	VIHTI	1515	DME		KSR 384549N 352830E		(blank)	100/400		400		40	
								VTI 602733N 241439E		(blank)	60/500		500		37	

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(blank)	117X		POL	CZAPLINEK	6957	DME	CZA	533028N 161804E		(blank)	80/400		400		37	
			UKR	YAHOTYN	6935	DME	YHT	501554N 314740E		(blank)	160/500		500		37	
	117Y		BUL	O SOGOVO BOGOSLOV	64386	DME	BOG	421222N 223745E		(blank)	200/500		500		37	Planned
	118X		POL	MINSK MAZOWIECKI	4921	TAC	TMM	521140N 213956E		(blank)	200/600		600		26	
			D	BUCHEL	344		BUE	501042N 070410E		(blank)	50/300		300		40	MIL
			G	NORDHOLZ	5689	TAC	NDO	@534608N 083913E		(blank)	180/500		500		40	MIL
			D	WADDINGTON	1859	TAC	WAD	530955N 003136W		(blank)	40/250		250		38	MIL; Project Marshall
			POL	MALBORK	6568	TAC	TMB	540130N 190815E		(blank)	40/250		250		40	
			TUR	ALL TURKEY	3090	TAC	ALL	ALL TURKEY(LAND)		(blank)	100/300		300		40	WEST ONLY
	118Y		HOL	HAASTRECHT	5680	DME	FRT	520016N 044609E		(blank)	70/450		450		37	
	119X		D	ALLGAU	5738	TAC	ALD	475919N 101352E		(blank)	25/100		100		27	
			HOL	EINDHOVEN	2043	TAC	EHV	512653N 052230E		(blank)	40/250		250		35	
	119Y		BUL	ORELYAK	64329	DME	ORL	413414N 233646E		(blank)	200/500		500		37	Planned
			D	HOLZDORF	4577	TAC	HOZ	514600N 131156E		(blank)	90/500		500		40	MIL
			G	ALL UK	1539	DME	ALL	ALL UNITED KINGDOM(LAND)		(blank)	100/500		500		37	
			LTU	VILNIUS-PABERZE	37628	DME	PBZ	545538N 251423E		(blank)	100/500		500		37	
	120Y		BUL	DOBRUDZHA	64325	DME	DBD	433535N 281505E		(blank)	200/500		500		37	Planned
			POL	FRANKFURT-HAHN	36945	DME	FHH	496630N 071538E		(blank)	25/100		100		27	
			POL	BIALA	40445	DME	BIA	511735N 155519E		(blank)	100/500		500		37	planned 2019
			S	ALL SWEDEN	5159	DME	SWE	ALL SWEDEN(LAND)		(blank)	40/100		100		27	TEST STATION
	121X		G	CRANWELL	1625	TAC	CWZ	530138N 002918W		(blank)	65/100		100		28	MIL; Project Marshall
			GRC	RODOS	3546	TAC	ROD	362000N 280500E		(blank)	150/250		250		40	
			G	THESSALONIKI	1982	TAC	MIK	@403200N 225900E		(blank)	150/250		250		40	DOC change to sectorised in response to relevant BUL reqs
			I	PIACENZA	2216	TAC	PIA	44502N 094314E		(blank)	40/250		250		39	MIL
			POL	IZBICA	6956	DME	IZB	505239N 230858E		(blank)	100/400		400		37	
			ROU	BACAU	7317	DME	BAC	463000N 265500E		(blank)	100/500		500		37	
			TUR	DIYARBAKIR	3127	TAC	DIY	375500N 401200E		(blank)	100/300		300		40	
	122X		FIN	SANTAHAMINA	5085	DME	KAD	600849N 250452E		(blank)	100/500		500		37	
			I	GRAZZANISE	2166	TAC	GRA	@410336N 140519E		(blank)	200/600		600		39	MIL
			NOR	SVALBARD/SVEA	4863	DME	VEA	776135N 163900E		(blank)	100/500		500		36	
	122Y		BUL	KALOTINA	7152	DME	KAL	425657N 225230E		(blank)	200/500		500		37	
			DNK	ALL DENMARK	4570	DME	MOB	ALL DENMARK(LAND)		(blank)	80/500		500		37	MOBILE
	123X		CZE	PISEK	5443	DME	PSK	494706N 140205E		(blank)	100/500		500		37	
			EST	KARLA	5775	TAC	KRD	585932N 224852E Alt=3		(blank)	20/100		100		27	
			G	WITTING	1870	TAC	WIT	523627N 002945W		(blank)	100/400		400		28	
	123Y		BUL	PRIMORSKO	64385	DME	PMS	421828N 274531E		(blank)	200/500		500		37	MIL; Project Marshall
			HRV	JAPETIC	29012	DME	JAP	454440N 153629E		(blank)	100/500		500		37	
			POL	FLOCK	6993	DME	PCK	524242N 193412E		(blank)	100/400		400		37	modification EIRP - RAFT11WP8
	124Y		POL	CEUTA	5232	DME	CEU	355333N 051619W		(blank)	60/500		500		37	
			I	GIOLA DEL COLLE	2164	TAC	GIO	404805N 165405E		(blank)	150/600		600		39	MIL
	125X		TUR	ALL TURKEY	3091	TAC	ALL	ALL TURKEY(LAND)		(blank)	100/400		400		40	EAST ONLY
			F	TOURS	27325	DME	TST	490400N 060800E		(blank)	01-12-1930		30		37	INSTRUCTION AND MAINTENANCE
			SVK	ALL SLOVAKIA	5384	TAC	SVZ	ALL SLOVAKIA REPUBLIC(LAND)		(blank)	40/250		250		36	MIL
	126Y		POL	DZIALYN	30116	DME	DIA	530446N 211032E		(blank)	100/500		500		37	
			ROU	BAISOARA	6953	DME	BAI	462900N 231400E		(blank)	100/250		250		37	
	17X		CZE	BRNO	61805	TAC	UAT	490559N 164057E		(blank)	80/195		195		13	TST FIS-B Temporary till December 2020
				PARDOBICE	71786	TAC	UAT	500558N 154423E		(blank)	80/195		195		13	TST FIS-B Temporary till July 2021
			D	FRIEDRICHSHAFEN	56505	TAC	UAT	474007N 093049E		(blank)	40/250		250		40	MIL
				FURSTENFELDBRUCK	427	TAC	FFB	@481300N 110900E		(blank)	50/250		250		40	TST
			E	ALBACETE	62665	TAC	UAT	480314N 092222E		(blank)	40/250		250		40	TST
			MKD	OHRID	6768	TAC	TAB	385845N 015149W		(blank)	200/600		600		40	
			POL	WICKO	7142	DME	WIC	412035N 204914E		(blank)	30/150		150		30	
			ROU	MIROSLAWIEC	6820	TAC	TMI	544046N 174033E		(blank)	100/400		400		37	
			ROU	ZALAU	6949	DME	ZLU	532000N 160500E		(blank)	40/100		100		29	MIL
			CNR	FLURTEVENTURA	32028	DME	FUE	470900N 230600E		(blank)	100/250		250		37	
	17Y		D	LAHR	4192	DME	LRD	292257N 135159W		(blank)	200/600		600		30	
			D	LAHR	4192	DME	LRD	482151N 074939E		(blank)	25/100		100		27	AD2 EDTL 1-6
			D	NEUBRANDENBURG	681	TAC	NEG	533600N 131900E		(blank)	50/300		300		40	MIL
			D	SCHWABISCH/HALL	5350	DME	SHD	490659N 094641E		(blank)	25/100		100		27	
			D	SIEGERLAND	4193	DME	SLD	504224N 080443E		(blank)	25/100		100		27	
			FIN	ALL FINLAND	36727	TAC	FINB	ALL FINLAND(LAND)		(blank)	60/500		500		16	Governmental user; A/A use
			G	ALL UK	1528	DME	ALL	ALL UNITED KINGDOM(LAND)		(blank)	100/500		500		37	
			HRV	PETROVA GORA	27289	DME	PTG	461845N 154628E		(blank)	100/600		600		37	
	18X		D	HELENKIRCHEN	4860	TAC	GIX	505748N 060243E		(blank)	80/500		500		37	MIL
			D	ALL GERMANY	258	TAC	ALL	ALL GERMANY(LAND)		(blank)	100/100		100		40	
			D	WESER	31546	DME	WSD	532051N 085231E		(blank)	60/500		500		37	
	19X		F	LUXEUIL/ST SAUVEUR	1209	TAC	LXI	474659N 062128E		(blank)	40/250		250		40	
			FIN	ALL FINLAND	67810	TAC	FINU	ALL FINLAND(LAND)		(blank)	60/500		500		16	Governmental user; A/A use
			G	BOSCOMBE DOWN	1568	TAC	BDN	Alt=116		(blank)	200/600		600		38	MIL; Project Marshall
			GRC	ELEFSIS	1912	TAC	ELF	380400N 233300E		(blank)	100/250		250		39	
			I	DECIMOMANNU	2143	TAC	DEC	392252N 085756E Alt=34		(blank)	200/600		600		39	MIL
	19Y		D	LAAGE	4578	TAC	LAG	535512N 121711E		(blank)	80/500		500		40	
			D	LAUPHEIM	28606	TAC	LAU	481317N 095433E		(blank)	30/100		100		37	MIL
			FIN	ALL FINLAND	67811	TAC	FINV	ALL FINLAND(LAND)		(blank)	60/500		500		16	Governmental user; A/A use
			SVK	PRESOV ZABORSKE	71530	DME	PSV	485842N 211707E		(blank)	80/450		450		37	
	20X	502	RUS	MOSKVA/NUKOVOY	3235	MLS/DME	24	553605N 371700E		(blank)	23/100	23/100	100		27	
				SAMARAKURUMQOCH	3248	MLS/DME		532000N 501000E		(blank)	23/100	23/100	100		27	
			GRC	IRAKLION	1915	TAC	RKL	352000N 251400E		(blank)	200/600		600		40	
			HOL	VOLKEL	2074	TAC	VKL	513920N 054225E		(blank)	200/600		600		35	
			I	PISASAN GIUSTO	2217	TAC	PIN	434313N 102556E Alt=13		(blank)	40/250		250		39	MIL
			POR	ARRABIDA	5459	DME	ARR	@382934N 085744W		(blank)	150/200		200		37	

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VHF Channel	DME Channel	MLS Channel	CTY	Location	SAFIRE Ref	Service	Rwy Designat Id or	Co-ordinates	TRD	VHFDOC	DMEDOC	MLSDOC	MaxFL	VHF EIRP	DME EIRP	Remarks
(blank)	20Y	546	I	GHEDI	2160	MLS/DME		452600N 101600E		(blank)	23/100	23/100	100			27 MIL OP
			D	OSNABRUCK	3326	TAC	OSB	521200N 081708E		(blank)	50/300		300			MIL
			I	ORISTANO/FENOSU	5469	DME	ORF	395348N 083843E		(blank)	25/100		100			
	21X		E	PALMA DE MALLORCA	8772	TAC	SSJ	393335N 024400E		(blank)	200/600		600			
			FIN	ALL FINLAND	67812	TAC	FINW	ALL FINLAND(LAND)		(blank)	60/500		500			Governmental user; A/A use
			G	VALLEY	1853	TAC	VYL	531456N 043239W		(blank)	60/400		400			MIL; Project Marshall
			GEO	BATUMI	34425	DME	BTM	413623N 413606E Alt=6		(blank)	160/460		460			
			GRC	TANAGRA	1977	TAC	TGR	382100N 233100E		(blank)	100/250		250			42
			TUR	ADANA/INCIRLIK	3652	TAC	DAN	370056N 362854E		(blank)	200/600		600			40
	21Y		FIN	ALL FINLAND	66246	TAC	FINS	ALL FINLAND(LAND)		(blank)	60/500		500			Governmental user; A/A use
			HRV	LOSINJ	27290	DME	LSJ	443057N 142928E		(blank)	100/500		500			37
			SVK	GRAJNAR	71531	DME	GRJ	485117N 203059E		(blank)	80/450		450			37
	22X		D	PADERBORN/LIPPSTADT	7016	DME	PAD	513637N 093707E		(blank)	25/100		100			29
			NOR	NAMSOS	2584	DME	NA	642816N 113358E		(blank)	25/100		100			34
								@370945N 083652W								
			POR	MEXILHOEIRA	27985	DME	DMX	Alt=65		(blank)	100/250		250			34
			I	ROU	67709	DME	HDB	470053N 272528E		(blank)	100/250		250			37
	22Y		I	TREVISO/S. ANGELO	41870	DME	TEV	453851N 121101E		(blank)	60/150		150			37
			POL	LASK	5715	TAC	TAS	513300N 191042E		(blank)	40/100		100			29
	23X		E	ROTA	6773	TAC	AOG	363852N 062057W		(blank)	40/250		250			37
			F	BARDENAS	7268	TAC	TBR	421149N 012933W		(blank)	40/250		250			40
			E	EVREUX/FAUVILLE	39795	TAC	TST	490200N 011200E		(blank)	05-10-2021		10			37
			G	WOLVERHAMPTON	5437	DME	WOL	523057N 021543W		(blank)	15/100		100			27
			GEO	TSNORI	34427	DME	TSN	413746N 460056E		(blank)	160/460		460			37
			UKR	KOSHANY	6932	DME	KSN	505646N 305840E		(blank)	160/500		500			37
	23Y		SVK	DUBNIK	71595	DME	DUB	485525N 212744E		(blank)	80/450		450			37
	24X	506	RUS	SANKT-PETERBURG/PULK	3255	MLS/DME		594900N 301700E	10	(blank)	23/100	23/100	100			27
			D	NIEDERSTETTEN	6874	DME	NDD	492336N 095739E	25	(blank)	23/100	23/100	100			27
			F	MONT-DE-MARSAN	3498	TAC	MDM	@435436N 093016W		(blank)	200/500		500			40
			G	MARHAM	4641	TAC	MAM	523849N 003339E Alt=20		(blank)	100/250		250			38
			I	PRATICA DI MARE	2223	TAC	TPR	413718N 122938E Alt=31		(blank)	40/250		250			39 MIL
			NOR	JAN MAYEN	6936	DME	JAN	705600N 083900W		(blank)	200/500		500			37
	24Y		SVK	CERTOVICA	71532	TAC	CRT	485400N 194415E		(blank)	80/450		450			37
			D	LECHFELD	531	TAC	LCH	481126N 105132E		(blank)	40/200		200			40
	25X		E	BADAJOZ	6770	TAC	TBC	385330N 064907W		(blank)	200/600		600			37
			I	BAE COWES	28525	TAC	TST	504453N 011832W		(blank)	40/250		250			37 Bae Cowes QEC test facility
			I	RIMINI	43727	DME	RMN	446101N 123718E		(blank)	45/250		250			27
			POL	DEBLIN	6157	TAC	TDN	513314N 215340E		(blank)	80/100		100			26
			ROU	NEUBURG	67710	DME	STR	470941N 265636E		(blank)	100/250		250			37
	26X		D	SIBIU	4966	TAC	NEU	484245N 111239E		(blank)	40/250		250			40 MIL
			ROU	SIBIU	4966	DME	SIB	484700N 240500E		(blank)	50/500		500			29
	26Y		BEL	ALL BELGIUM	99	TAC		ALL BELGIUM(LAND)		(blank)	40/250		250			MIL - Not usable in a circle of 10 NM around LIÅ ge airport
			BUL	ALL BULGARIA	6007	TAC	BTA	ALL BULGARIA(LAND)		(blank)	70/450		450			38 MIL MOBILE
			CZE	ALL CZECH REPUBLIC	6216	TAC		ALL CZECH REPUBLIC(LAND)		(blank)	40/500		500			40 NATO
			D	ALL GERMANY	259	TAC		ALL GERMANY(LAND)		(blank)	40/250		250			40
			DNK	ALL DENMARK	3384	TAC		ALL DENMARK(LAND)		(blank)	40/250		250			40
			E	ALL SPAIN	6145	TAC		ALL SPAIN(LAND)		(blank)	40/250		250			40 MIL
			EST	ALL ESTONIA	5195	TAC		ALL ESTONIA(LAND)		(blank)	40/250		250			40
			F	ALL FRANCE	985	TAC		250+LAND A-250 ALL FRANCE(LAND)		(blank)	40/250		250			LAND MOBILE
			G	ALL UK	3411	TAC		ALL UNITED KINGDOM(LAND)		(blank)	40/250		250			40
			GIB	ALL GIBRALTAR	3419	TAC		ALL GIBRALTAR(LAND)		(blank)	40/250		250			MIL mobile ground
			GRC	ALL GREECE	3401	TAC		ALL GREECE(LAND)		(blank)	40/250		250			40 MIL
			HNG	ALL HUNGARY	7140	TAC	HUU	ALL HUNGARY(LAND)		(blank)	40/250		250			37 FOR NATO OPERATION
			HOL	ALL NETHERLANDS	2012	TAC		ALL NETHERLANDS(LAND)		(blank)	40/250		250			40
			HRV	NATIONAL AERODROMES	30271	TAC		ALL CROATIA(LAND)		(blank)	40/250		250			37
			I	ALL ITALY	2687	TAC		ALL ITALY(LAND)		(blank)	40/250		250			40 MIL
			LTU	ALL LITHUANIA	5174	TAC		ALL LITHUANIA(LAND)		(blank)	40/250		250			40 MIL
			LVA	RIGA	30852	TAC	MIL	TAC(Latvia FIR), ALL LATVIA 2014(Latvia)		(blank)	40/250		250			40 MIL Mobile TAC
			NOR	ALL NORWAY	2482	TAC		ALL NORWAY(LAND)		(blank)	40/250		250			40
			POL	ALL POLAND	4741	TAC		ALL POLAND(LAND)		(blank)	40/250		250			38 LAND MOBILE
			ROU	ALL ROMANIA	6259	TAC	TCA	ALL ROMANIA(LAND)		(blank)	35/250		250			40 MIL
			SVN	ALL SLOVENIA	30141	TAC		ALL SLOVENIA(LAND)		(blank)	40/250		250			40 MIL
			TUR	ALL TURKEY	3694	TAC	MSA	ALL TURKEY(LAND)		(blank)	40/250		250			40 MIL
			CNR	ALL CANARY	9050	TAC		ALL CANARY(ALLCNR)		(blank)	40/250		250			40 MIL
	27X		D	RHEINE/BENTLAGE	6290	TAC	RBT	521700N 072300E		(blank)	65/500		500			40 MIL
			F	HYERES	1161	TAC	HYE	430601N 060852E		(blank)	40/250		250			39
			G	LINTON-ON-OUSE	4127	TAC	LOO	540301N 011456W		(blank)	50/250		250			40 MIL
			GRC	LARISSA	1941	TAC	LAR	393900N 223000E		(blank)	100/250		250			40 MIL
			I	PERDASDEFOGU	5156	TAC	PED	394009N 092636E		(blank)	40/250		250			40
			IRL	SLIGO	2313	DME	SLG	541646N 083600W		(blank)	25/250		250			27
	27Y		G	YEUVIL	1875	DME	YVL	505627N 023914W		(blank)	25/250		250			24
	28X		NOR	ANDØYA	2498	TAC	OYA	601711N 160840E		(blank)	200/600		600			40
			TUR	ANTALYA	7033	DME	ANT	362333N 304722E		(blank)	25/500		500			27
	29X		GRC	PREVEZA/AKTION	5361	TAC	PRV	386700N 205200E		(blank)	100/250		250			40
			ROU	CIUHEI	6952	DME	CHU	461000N 244900E		(blank)	100/250		250			37
			S	RONNEBY	3487	DME	RON	561515N 151549E		(blank)	100/500		500			37
			TUR	SIVRIHISAR	3181	TAC	SYT	392646N 312227E		(blank)	200/600		600			40

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VHF Channel	DME Channel	MLS Channel	CTY	Location	SAFIRE Ref	Service	Rwy Designat Id or	Co-ordinates	TRD	VHFDOC	DMEDEC	MLSDOC	MaxFL	VHF EIRP	DME EIRP	Remarks
(blank)	29Y		FIN	ALL FINLAND	36728	TAC	FINC	ALL FINLAND(LAND)		(blank)	60/500		500			16 Governmental user; A/A use
			I	REGGIO EMILIA	5265	DME	RGM	444142N 104008E Alt=46		(blank)	40/250		250			28 Planned
			POL	INOWROCLAW	40165	TAC	TIR	524943N 181949E		(blank)	40/250		250			37
	30X	512	RUS	MOSKVA/SHEREMETEV	3230	MLS/DME	7	558800N 372500E @520719N 005628E		(blank)	23/100	23/100	100			27
			G	WATTISHAM	5137	TAC	WTZ	Alt=85		(blank)	200/500		500			38
			I	ALGHERO/FERTILIA	4034	TAC	AHO	403810N 081722E Alt=37		(blank)	50/250		250			43 MIL
			NOR	LISTA	2571	TAC	LST	580605N 063733E @371827N 075744W		(blank)	200/250		250			40
			POR	SALIR	27986	DME	DSL	Alt=580		(blank)	80/250		250			34
			TUR	AMASYA/MERZIFON	3166	TAC	MNI	404931N 353035E		(blank)	200/600		600			40
	30Y		HRV	OSJEK	6009	DME	KLS	452758N 184732E Alt=96		(blank)	100/500		500			37
			ROU	BACAU	67711	DME	ODB	464152N 270999E 464714N 145816E		(blank)	100/250		250			37
	31X		AUT	KORALPE	5854	DME	KOR	Alt=2146		(blank)	60/500		500			37
			F	ORANGE/CARITAT	1288	TAC	ORG	440822N 045158E		(blank)	40/250		250			40
			FIN	ALL FINLAND	67806	TAC	FINZ	ALL FINLAND(LAND)		(blank)	60/500		500			16
			GRC	KITHIRA	1938	TAC	KTR	361800N 225700E 474818N 130842E		(blank)	200/600		600			42
			31Y	AUT	GAISBERG	6105	DME	GSB	Alt=1305	(blank)	60/500		500			30
			F	EVREUX/FAUVILLE	39786	TAC	TST	490200N 011200E		(blank)	05-10-2021		10			37
			FIN	ALL FINLAND	67808	TAC	FIOA	ALL FINLAND(LAND)		(blank)	60/500		500			16
			G	HIGHFIELD PARK	1674	DME	TST	512000N 005800W		(blank)	05-01-2021		1			29
	32X	514	RUS	TYVER/MIGALOVO	3264	MLS/DME		564900N 354500E		(blank)	23/100	23/100	100			27
			D	SPANGDAHEM	5218	TAC	SPA	496844N 064152E		(blank)	60/300		300			40
			I	KIEL/HOLTENAU	510	DME	KHD	542244N 100843E		(blank)	25/100		100			27
			I	TORINO/CASELLE	2260	TAC	CAS	451138N 073910E		(blank)	40/250		250			39 MIL
	33X		BEL	KLEINE BROEGL	5461	TAC	BBL	511013N 052759E 511409N 005634W		(blank)	40/250		250			39 MIL
			G	ODIHAM	1798	TAC	ODH	Alt=121		(blank)	50/250		250			28
			GRC	KARPATOS	4586	TAC	RPA	352500N 271000E		(blank)	40/250		250			40
			NOR	VAERNES	2665	TAC	VAE	632719N 105402E		(blank)	40/250		250			37
			POR	MONTE REAL	2744	TAC	MTR	394957N 085324W 552324N 034412W		(blank)	150/300		300			40
	33Y		G	GREEN LOWTHER	55247	DME	GLO	Alt=728		(blank)	60/500		500			39
			LVA	RAISKUMS	64210	DME	RSK	571839N 250915E		(blank)	160/500		500			37
			POL	WIELUN	39104	DME	WIE	505259N 182943E		(blank)	100/500		500			37
	34X	516	RUS	SANKT-PETERBURG/PULK	3257	MLS/DME		594900N 301700E		(blank)	23/100	23/100	100			27
			RUS	MOSKVA/SHEREMETEV	3231	MLS/DME		558800N 372500E		(blank)	23/100	23/100	100			27
			BEL	ALL BELGIUM	100	TAC		ALL BELGIUM(LAND)		(blank)	40/250		250			40
			CZE	ALL CZECH REPUBLIC	6214	TAC		REPUBLIC(LAND)		(blank)	40/500		500			40
			D	ALL GERMANY	260	TAC		ALL GERMANY(LAND)		(blank)	40/250		250			40
			DNK	ALL DENMARK	714	TAC		ALL DENMARK(LAND)		(blank)	40/250		250			40
			E	ALL SPAIN	6146	TAC		ALL SPAIN(LAND)		(blank)	40/250		250			40
			F	ALL FRANCE	986	TAC		ALL FRANCE(LAND)		(blank)	40/250		250			40
			G	ALL UK	3412	TAC		ALL UNITED KINGDOM(LAND)		(blank)	40/250		250			40
			GIB	ALL GIBRALTAR	73747	TAC	SED	531325N 025928W		(blank)	100/600		600			29
			GRC	ALL GREECE	1882	TAC		ALL GREECE(LAND)		(blank)	40/250		250			40
			HNG	ALL HUNGARY	5128	TAC	HUB	ALL HUNGARY(LAND)		(blank)	40/250		250			37
			HOL	ALL NETHERLANDS	2013	TAC		NETHERLAND(LAND)		(blank)	40/250		250			40
			HRV	NATIONAL AERODROMES	30272	TAC		ALL CROATIA(LAND)		(blank)	40/250		250			37
			I	ALL ITALY	2088	TAC		ALL ITALY(LAND)		(blank)	40/250		250			40
			LTU	ALL LITHUANIA	5175	TAC		ALL LITHUANIA(LAND)		(blank)	40/250		250			40
			LVA	RIGA	30207	TAC	MIL	ALL LATVIA 2014 TAC(Latvia FIR),ALL LATVIA 2014(Latvia)		(blank)	40/250		250			40
			NOR	ALL NORWAY	2483	TAC		ALL NORWAY(LAND)		(blank)	40/250		250			40
			POL	ALL POLAND	4742	TAC		ALL POLLAND(LAND)		(blank)	40/250		250			38
			ROU	ALL ROMANIA	6261	TAC	TCB	ALL ROMANIA(LAND)		(blank)	35/250		250			40
			SVN	ALL SLOVENIA	30142	TAC		ALL SLOVENIA(LAND)		(blank)	40/250		250			40
			TUR	ALL TURKEY	3092	TAC	MSB	ALL TURKEY(LAND)		(blank)	40/250		250			40
			CNR	ALL CANARY	9049	TAC		ALL CANARY(ALLCNR)		(blank)	40/250		250			40
	34Y		SVK	MODRA	71529	DME	MDA	482043N 171836E		(blank)	80/450		450			37
	35X		I	ANCONA/FALCONARA	2097	TAC	FAL	433437N 131758E		(blank)	200/600		600			39 MIL
			UKR	LYKHACHEVE	28936	DME	LKH	482208N 381228E		(blank)	160/500		500			37
	35Y		D	NORVENICH	27233	DME	WNN	505008N 064010E		(blank)	40/200		200			37
			FIN	ALL FINLAND	36729	TAC	FIN	ALL FINLAND(LAND)		(blank)	60/500		500			16
			HRV	LUKAVEC	6010	DME	LUK	454126N 155933E		(blank)	100/500		500			37
	36X		FIN	HALLI	30129	DME	HA	615120N 244820E		(blank)	100/500		500			37
	36Y		BEL	KLEINE BROEGL	57586	TAC	BBL	511013N 052759E		(blank)	40/250		250			39
			G	ISLAY	1684	DME	ISY	554059N 061458W		(blank)	20/50		50			27
			I	SHOREHAM	1820	DME	SRH	505010N 001737W		(blank)	01-10-1955		55			24
			ROU	GIOIA DEL COLLE	30526	TAC	GDL	404523N 165627E		(blank)	100/300		300			37
			TUR	ORDU/GIRESUN	67113	DME	ARN	402246N 270924E		(blank)	100/250		250			37
			TUR	ORDU/GIRESUN	50713	DME	GRS	405752N 380540E		(blank)	25/100		100			27
	37X		DNK	KARUP	5819	TAC	KAR	561748N 090031E		(blank)	200/500		500			40
			G	BENSON	4796	TAC	BSO	513717N 010554W		(blank)	50/250		250			28
			I	RIVOLTO	2230	TAC	RIV	455945N 130518E Alt=71		(blank)	40/250		250			39 MIL
			LVA	JAUNSVIRLAUKS	64208	DME	JVL	563017N 235541E		(blank)	160/500		500			37
			POR	MONTUJO	2747	TAC	MOJ	384232N 090201W		(blank)	150/300		300			41
			TUR	DIYARBAKIR	5310	TAC	DIY	375455N 401144E		(blank)	100/400		400			40
	37Y		DNK	KOLDING/VAMDRUP	5751	DME	VAM	552617N 092008E		(blank)	60/195		195			37
			FIN	ALL FINLAND	36730	TAC	FINE	ALL FINLAND(LAND)		(blank)	60/500		500			16

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VHF Channel	DME Channel	MLS Channel	CTY	Location	SAFIRE Ref	Service	Rwy Designat Id or	Co-ordinates	TRD	VHFDOC	DMEDOC	MLSDOC	MaxFL	VHF EIRP	DME EIRP	Remarks
(blank)	37Y		ROU	FETESTI	30686	TAC	FTS	442332N 274336E		(blank)	200450		450		37	
	38X	520	RUS	SANKT-PETERBURG/PULK MOSKVA/SHEREMETEV	3258	MLS/DME		594900N 301700E		(blank)	23/100	23/100	100	27		
			BUL	BEZMER	5304	TAC	BEZ	55800N 372500E		(blank)	23/100	23/100	100	27		
			I	ALL ITALY	2099	TAC		ALL ITALY(LAND)		(blank)	40/250		250		38 MIL	
			POL	LECZYCA	40166	TAC	TLY	520004N 190839E		(blank)	40/250		250		40 MIL	
	39X		F	CHATEAUDUN	1091	TAC	CHN	480321N 012231E		(blank)	40/500		500		37	
			G	LAKENHEATH	1706	TAC	LKH	522423N 003252E Alt=27		(blank)	60/250		250		40 MIL	
			TUR	AKHISAR	3086	TAC	AKI	384900N 275100E		(blank)	200/600		600		40	
	39Y		D	ALL GERMANY	261	TAC		ALL GERMANY(LAND)		(blank)	150/600		500		40	
	40X		D	ALL GERMANY	262	TAC		ALL GERMANY(LAND)		(blank)	40/250		250		40	
	40Y		EST	ALL ESTONIA	5199	TAC		ALL ESTONIA(LAND)		(blank)	40/250		250		40 LAND MOBILE	
			LTU	ALL LITHUANIA	5178	TAC		ALL LITHUANIA(LAND)		(blank)	40/250		250		40 MIL	
	42X	524	RUS	MOSKVA/VUKOVO	3238	MLS/DME	6	553600N 371700E		(blank)	23/100	23/100	100	27		
			G	LELCHARS	1719	TAC	LUK	562222N 025149W		(blank)	100/500		500		37	MIL
	42Y		F	TOULOUSE/ENAC	1406	DME	MENA	433700N 012200E		(blank)	23/100		100	29		
			G	OBAN	5564	DME	OBA	562739N 052408W		(blank)	25/100		100	27		
	43X		F	AVORD	1013	TAC	AVD	@470329N 023747E		(blank)	150/600		600		40	
			GEO	BAKURIANI	34429	DME	BKU	Alt=2800		(blank)	160/460		460		37	
			POR	OVAR	2753	TAC	OVR	405316N 083836W		(blank)	200/500		500		41 MIL	
			TUR	BALKESIR	3108	TAC	BRI	393704N 275540E		(blank)	200/600		600		40	
	43Y		SUI	LA PRAZ	5347	DME	LAP	@464034N 062448E		(blank)	60/500		500		37	
	44X		G	CARLISLE	6416	DME	CO	545624N 024819W		(blank)	15/100		100	27		
			HOL	TWENTHE	2067	TAC	TWN	521700N 065400E		(blank)	100/250		250		35	
			POL	TOMASZOW.MAZ	40167	TAC	TTM	513515N 200537E		(blank)	40/250		250		37	
	44Y		LTU	ALL LITHUANIA	5179	TAC	CAA	ALL LITHUANIA(LAND)		(blank)	40/250		250		40 MIL	
	45X		F	CAZAUX	4776	TAC	CAA	@443152N 010810W		(blank)	250/600		600		34	
			GEO	GUDAURI	34428	DME	GUD	Alt=2700		(blank)	160/460		460		37	
			LVA	RUDBARZI	64209	DME	RDB	563821N 215334E		(blank)	160/500		500		37	
			NOR	BODO	2519	TAC	BOO	571558N 142142E		(blank)	200/500		500		40	
			POR	MONTARGIL	7005	DME	DMT	390438N 081115W		(blank)	115/200		200	27		For PBN implementation
			ROU	GIURGIU	67729	DME	COM	441033N 260859E		(blank)	100/250		250	37		
	45Y		FIN	ALL FINLAND	36731	TAC	FINF	ALL FINLAND(LAND)		(blank)	60/500		500		16	Governmental user; A/A use
	46X		I	GHEDI	2161	TAC	GHE	452623N 101551E		(blank)	150/600		600		39 MIL	
	46Y		D	ALL GERMANY	263	TAC		ALL GERMANY(LAND)		(blank)	20/100		100		40	
	47X		D	ZELTWEG	6920	TAC	ZWG	471214N 144445E		(blank)	25/90		90	3		MIL
			G	YEOWILTON	1876	TAC	VLN	510016N 023815W		(blank)	200/600		600		38	MIL; Project Marshall
			GEO	POTI	34426	DME	PTI	420942N 414150E Alt=1		(blank)	160/460		460		37	
			NOR	BANK	2502	TAC	BNK	700356N 245812E		(blank)	100/250		250		37	
			TUR	BANDIRMA	3110	TAC	BDM	401900N 275856E		(blank)	200/600		600		40	
			UKR	CHERLYANY	72948	DME	CHR	494353N 234101E		(blank)	160/500		500		37	
	47Y		FIN	ALL FINLAND	36732	TAC	FING	ALL FINLAND(LAND)		(blank)	60/500		500		16	Governmental user; A/A use
	48X		G	CONINGSBY	1612	TAC	CGY	530528N 001008W Alt=5		(blank)	120/400		400	38		MIL; Project Marshall
			ROU	TIMIS	67731	DME	SAC	453346N 214328E		(blank)	100/250		250		37	
	49X		GRC	CHANIA/SOUDA	1910	TAC	SUD	353300N 240700E		(blank)	100/250		250		40	
			HOL	VALKENBURG	3587	TAC	VBG	521000N 042500E		(blank)	100/400		400		35 MIL	
			I	SIGONELLA	2252	TAC	NSY	372400N 145500E		(blank)	40/250		250		39 MIL USAF	
			POR	FARO	6289	DME	FAR	370032N 075533W		(blank)	50/300		300	39		
	50X	532	RUS	MOSKVA/VUKOVO	3240	MLS/DME	20	553600N 371700E		(blank)	23/100	23/100	100	27		
				SANKT-PETERBURG/PULK SAMARAKURUMOCH	3260	MLS/DME		594900N 301700E		(blank)	23/100	23/100	100	27		
					3251	MLS/DME		532000N 501000E		(blank)	23/100	23/100	100	27		
			G	LOSSIEMOUTH	29045	TAC	LSM	574237N 031938W		(blank)	100/250		250		28	MIL; Project Marshall
			LTU	ALL LITHUANIA	5180	TAC		ALL LITHUANIA(LAND)		(blank)	40/250		250		40 MIL	
	50Y		D	ALL GERMANY	264	TAC		ALL GERMANY(LAND)		(blank)	20/100		100		40	
	51X		D	INGOLSTADT	492	TAC	IGL	@484305N 113411E		(blank)	60/500		500		40	MIL
			HOL	LELYSTAD/LELYSTAD	5475	DME	FRO	522709N 050302E		(blank)	70/450		450		37	
			NOR	ORLAND	2594	TAC	ORL	@634052N 093725E		(blank)	200/600		600		40	
			TUR	ERZURUM	3133	TAC	ERZ	395732N 410911E		(blank)	200/600		600		40	
	51Y		FIN	ALL FINLAND	7124	TAC		ALL FINLAND(LAND)		(blank)	60/500		500		40	MOBILE
			ROU	TULCEA	36746	TAC	FINN	ALL FINLAND(LAND)		(blank)	60/500		500		16	Governmental user; A/A use
					67732	DME	TPG	445124N 282511E		(blank)	100/250		250		37	
	52X		BEL	FLORENNES	132	TAC	BFS	@501429N 043912E		(blank)	200/500		500		40	MIL
			D	KASSEL-CALDEN	7192	DME	DKS	512516N 092419E		(blank)	25/100		100	27		
			POL	KRZESINY	5568	TAC	TKS	522000N 165804E		(blank)	40/100		100	29		
			POR	PEREIRO	27983	DME	DPR	@372649N 073525W		(blank)	100/250		250		34	
	53X		AUT	ZELTWEG	7185	TAC	ZEW	471214N 144445E		(blank)	25/90		90	3		MIL
			HOL	DE PEEL	2035	TAC	DPL	513100N 055100E		(blank)	40/250		250		38 MIL	
			I	SIGONELLA	2253	TAC	SIG	372345N 145816E Alt=25		(blank)	200/600		600		39 MIL	
			ROU	BATMAN	67733	DME	ADM	440552N 275745E		(blank)	100/250		250		40	
			TUR	BATMAN	3112	TAC	BAT	374545N 410620E		(blank)	200/600		600		40	
	53Y		D	KOLN-BONN	69065	DME	KID	505145N 070844E Alt=82		(blank)	25/150		150	39		INTERIM (DURING MODERNISATION OF 3D5002)
			FIN	ALL FINLAND	6286	DME		ALL FINLAND(LAND)		(blank)	60/500		500		34	MOBILE
			I	NOVARA	36738	TAC	FINN	ALL FINLAND(LAND)		(blank)	60/500		500		16	Governmental user; A/A use
					6174	DME	NOV	452627N 084739E		(blank)	50/250		250		37	
	54X		BEL	ALL BELGIUM	102	TAC		ALL BELGIUM(LAND)		(blank)	40/250		250		40	MIL - Not usable in a circle of: a) 10NM around Florennes and Gilze Rijen (HOL) airport and b) 45 NM around De Peel (HOL) airport
			D	ALL GERMANY	265	TAC		ALL GERMANY(LAND)		(blank)	40/250		250		40	
			DNK	ALL DENMARK	3395	TAC		ALL DENMARK(LAND)		(blank)	40/250		250		40	MIL - NOT USABLE IN A ZONE OF 90NM FROM SCHLESWIG(D) TAC CH.55X
			E	ALL SPAIN	6147	TAC		ALL SPAIN(LAND)		(blank)	40/250		250		40	MIL
			EST	ALL ESTONIA	5197	TAC		ALL ESTONIA(LAND)		(blank)	40/250		250		40	LAND MOBILE
			F	ALL FRANCE	987	TAC		ALL FRANCE(LAND)		(blank)	40/250		250		40	
			G	ALL UK	3413	TAC		ALL UNITED KINGDOM(LAND)		(blank)	40/250		250		40	MIL mobile ground

COM3- List of national and international assignments in Frequency order

VHF Channel	DME Channel	MLS Channel	CTY	Location	SAFIRE Ref	Service	Rwy Designat Id or	Co-ordinates	TRD	VHFDOC	DMEDEC	MLSDOC	MaxFL	VHF EIRP	DME EIRP	Remarks	
(blank)	54X		GIB	ALL GIBRALTAR	3421	TAC		ALL GIBRALTAR(LAND)		(blank)	40/250		250		40		
			GRC	ALL GREECE	1883	TAC		ALL GREECE(LAND)		(blank)	40/250		250		40	MIL	
			HNG	ALL HUNGARY	6828	TAC	HUC	ALL HUNGARY(LAND)		(blank)	40/250		250		37	FOR NATO OPERATION	
			HOL	ALL NETHERLANDS	2014	TAC		ALL NETHERLAND(LAND)		(blank)	40/250		250		40		
			HRV	NATIONAL AERODROMES	30273	TAC		ALL CROATIA(LAND)		(blank)	40/250		250		37	FOR NATO OPERATION	
			I	ALL ITALY	2090	TAC		ALL ITALY(LAND)		(blank)	40/250		250		40	MIL	
			LTU	ALL LITHUANIA	5176	TAC		ALL LITHUANIA(LAND)		(blank)	40/250		250		40	MIL	
			LVA	RIGA	30851	TAC	MIL	LATVIA 2014(Latvia TAC(Latvia FIR),ALL		(blank)	40/250		250		40	MIL Mobile TAC	
			NOR	ALL NORWAY	2485	TAC		ALL NORWAY(LAND)		(blank)	40/250		250		40		
			POL	ALL POLAND	4743	TAC		ALL POLLAND(LAND)		(blank)	40/250		250		38	LAND MOBILE	
			ROU	ALL ROMANIA	9014	TAC		ALL ROMANIA(LAND)		(blank)	35/250		250		40	MIL	
			SVN	ALL SLOVENIA	30143	TAC	TCC	ALL SLOVENIA(LAND)		(blank)	40/250		250		40	MIL	
			TUR	ALL TURKEY	3093	TAC	MSC	ALL TURKEY(LAND)		(blank)	40/250		250		40		
			CNR	ALL CANARY	9048	TAC		ALL CANARY(ALL CNR)		(blank)	40/250		250		40	MIL	
			D	SCHLESWIG GRAFENWOHR	648	TAC	SWG	542749N 093100E		(blank)	80/500		500		40	MIL	
					439	TAC	GRF	494129N 115619E		(blank)	40/250		250		40		
			55Y	BUL	ALABORUN	64328	DME	ALA 414619N 230351E		(blank)	200/500		500		37	Governmental user; A/A use MIL (US) Planned	
			FIN	ALL FINLAND	36734	TAC	FINH	ALL FINLAND(LAND)		(blank)	60/500		500		16	Governmental user; A/A use	
			56X	538	MOSKVA/VNUKOVO	3242	MLS/DME	553600N 371700E		(blank)	23/100	23/100	100		27		
					SAMARAKURUMOCH	3252	MLS/DME	532000N 501000E		(blank)	23/100	23/100	100		27		
			D	SPANGDAHLEM	5219	DME	ISPA	495905N 064233E		(blank)	35/100		100		27	MIL (US)	
			G	BRIZE NORTON	1585	TAC	BZN	514454N 013613W		(blank)	100/600		600		38	MIL; Project Marshal	
			GRC	KASTELI	1924	TAC	KLI	351200N 252000E		(blank)	150/500		500		42		
			D	RAMSTEIN	39465	TAC	TSB	492616N 073605E		(blank)	40/250		250		37	MIL (US)	
			HRV	SISAK/PETRINJA	6939	DME	SPT	452300N 162600E		(blank)	100/600		600		37		
			57X	AUT	INNSBRUCK	5571	DME	PAT	471231N 112737E Alt=2246		(blank)	60/500		500		37	
			G	ALL UK	1533	DME		ALL UNITED KINGDOM(LAND)		(blank)	100/500		500		37	MOBILE	
			57Y	D	ERFURT	4446	DME	EFD	505857N 105728E		(blank)	25/100		100		28	
			S	STOCKHOLM/ARLANDA	4642	DME	ANW	594248N 175109E		(blank)	25/100		100		27		
			SUI	CORVATSCH	6031	DME	CVA	462505N 094918E		(blank)	80/500		500		37		
			58Y	AUT	RABENWALD	6921	DME	RAW	471655N 154623E Alt=1059		(blank)	60/500		500		29	
			D	LEIPZIG/SCHKEUDITZ	5889	DME	LLD	512454N 121349E		(blank)	100/250		25/100		100		28
			F	PARIS/ORLY	6911	DME	POY	483438N 022323E		(blank)	40/250		250		37		
			59X	G	ISLE OF MAN/RONALDSWAY	73105	DME	IOI	@540410N 044549W		(blank)	160/180		180		39	
			HOL	DEELEN	2037	TAC	DLN	520326N 055221E		(blank)	40/250		250		35		
			TUR	SIIRT	7166	DME	SIR	378363N 415012E		(blank)	25/100		100		27	Planned	
			59Y	FIN	ALL FINLAND	36735	TAC	FINI	ALL FINLAND(LAND)		(blank)	60/500		500		16	Governmental user; A/A use
			NOR	SOLA	2629	TAC	SOA	582333N 053807E		(blank)	200/600		600		40		
			60X	ROU	ALL BELGIUM	67736	DME	CIC	461941N 033211E		(blank)	100/250		250		37	
			BEL	ALL BELGIUM	4333	TAC		ALL BELGIUM(LAND)		(blank)	40/250		250		39	MIL	
			TUR	CARDAK	3119	TAC	CRD	374643N 294131E		(blank)	100/400		400		40		
			61X	FIN	ALL FINLAND	66166	TAC	FINP	ALL FINLAND(LAND)		(blank)	60/500		500		16	Governmental user; A/A use
			GRC	ANDRAVIDA	1894	TAC	AML	375500N 211700E		(blank)	200/500		500		40		
			62X	F	TOULOUSE/ENAC	1408	DME	AC	433700N 012200E		(blank)	40/250		250		37	INSTRUCTION
			FIN	ALL FINLAND	67820	TAC	FIOJ	ALL FINLAND(LAND)		(blank)	60/500		500		16	Governmental user; A/A use	
			63X	FIN	ALL FINLAND	66167	TAC	FINQ	ALL FINLAND(LAND)		(blank)	60/500		500		16	Governmental user; A/A use
			ROU	HENIU	6948	DME	HNU	471600N 244400E		(blank)	100/250		250		37		
			64X	E	ZARAGOZA/ZARAGOZA	6777	TAC	ZZA	414038N 010331W		(blank)	100/500		500		38	
			FIN	ALL FINLAND	69296	TAC	FIOB	ALL FINLAND(LAND)		(blank)	60/500		500		16	Governmental user; A/A use	
			FIN	ALL FINLAND	69289	TAC	FIOE	ALL FINLAND(LAND)		(blank)	60/500		500		16	Governmental user; A/A use	
			ROU	CINCU	9018	TAC	CIN	455500N 244800E		(blank)	35/200		200		40	MIL	
			67X	NOR	EVENES	2532	TAC	EVS	682929N 164030E		(blank)	100/400		400		40	
			ROU	LUGOJ	6590	DME	LGJ	454300N 220000E		(blank)	100/250		250		37		
			68X	F	AMBERIEU	4628	TAC	TSY	455900N 052000E		(blank)	40/200		200		40	MAINT
			FIN	ALL FINLAND	69287	TAC	FIOO	ALL FINLAND(LAND)		(blank)	60/500		500		16	Governmental user; A/A use	
			POL	MINSK MAZOWIECKI	4746	TAC	TMM	521100N 213900E		(blank)	40/250		250		26	MIL	
			TUR	MILAS/BODRUM	5611	TAC	BOD	371507N 273902E		(blank)	40/250		250		37		
			70X	G	LONDON/HEATHROW	69185	DME	HRW	512835N 002741W		(blank)	40/100		100		39	New DME
			71X	GRC	ARAXOS	1895	TAC	ARX	380700N 212500E		(blank)	150/500		500		40	
			CNR	LA PALMA	9037	DME	BV	283606N 174524W		(blank)	160/500		500		37		
			71Y	ROU	CINCU	9019	TAC	CIN	455500N 244800E		(blank)	35/200		200		40	MIL
			D	MONCHENGLADBACH	4151	DME	MHD	511406N 062931E		(blank)	25/100		100		27		
			72X	R	MADRID/TORREJON	6771	TAC	TJZ	402556N 032644W		(blank)	40/250		250		40	
			LTU	VILNIUS-SEMELISKES	33746	DME	SML	544031N 244132E		(blank)	100/500		500		37		
			NOR	NY AALESUND	6839	DME	NAL	785559N 115114E		(blank)	100/100		100		27		
			72Y	G	MALINA	9016	TAC	MAL	453100N 275400E		(blank)	35/200		200		40	MIL
			73X	D	FRIEDRICHSHAFEN	423	DME	FHD	474003N 093016E		(blank)	25/100		100		37	
			R	LEEMING	4761	TAC	LEE	541703N 013131W		(blank)	100/250		250		38	MIL	
			73Y	ROU	BABADAG	9015	TAC	BAB	445300N 284400E		(blank)	35/200		200		40	MIL
			74X	S	BACKA	2830	DME	BAK	@573319N 115837E		(blank)	100/500		500		37	
			74Y	ROU	MALINA	9017	TAC	MAL	453100N 275400E		(blank)	35/200		200		40	MIL
			75X	ROU	CONSTANTA	69145	DME	TZL	439333N 283646E @464147N 135454E		(blank)	100/250		250		37	
			76X	AUT	VILLACH	84	DME	VIW	Alt=1919		(blank)	80/500		500		37	
			IRL	GORMANSTON	2306	DME	GMN	533848N 061406W		(blank)	60/250		250		37		
			ROU	FRIEDRICHSHAFEN	67735	DME	FHD	474003N 093016E		(blank)	100/250		250		37		
			TUR	AMASYA/MEZIFON	3167	TAC	MNI	405000N 353200E		(blank)	100/400		400		40		
				CANAKKALE/CANAKKALE	31985	TAC	CNK	400828N 262600E		(blank)	40/180		180		26		
			77X	UKR	STEBLIV	6934	DME	STB	492419N 310436E		(blank)	160/500		500		37	
			78X	D	NURNBERG/NURNBERG	4447	DME	NGD	493004N 110449E		(blank)	25/100		100		28	
			E	GRANADA/ARMILLA	6516	TAC	TGR	370757N 033802W		(blank)	40/250		250		37		

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VHF Channel	DME Channel	MLS Channel	CTY	Location	SAFIRE Ref	Service	Rwy Designat Id or	Co-ordinates	TRD	VHFDOC	DMEDOC	MLSDOC	MaxFL	VHF EIRP	DME EIRP	Remarks
(blank)	78X		ROU	SIBIU	68387	DME	PLT	453832N 235637E		(blank)	100/250		250		37	
	79X		D	STUTT GART	4561	DME	TST	485000N 090900E		(blank)	200/500		500		27	GND TST
			E	SAN SEBASTIAN	6775	DME	HIG	432311N 014745W		(blank)	50/400		400		37	
			G	WARTON	1862	TAC	WTN	534500N 025300W		(blank)	100/500		500		37	MIL
			HNG	SARMELLEK	5193	DME	SME	486000N 171000E		(blank)	25/100		100		27	
			SUI	HOCHWALD	39545		HOC	@472800N 073956E		(blank)	85/500		500		39	Replaces VOR/DME 3SUI6125. Same DME channe
			TUR	YENISEHIR	3190	TAC	YEN	401600N 293500E		(blank)	200/600		600		40	
			CNR	EL HIERRO	9035	DME	HR	274858N 175311W		(blank)	200/500		500		37	
	79Y		D	HOLDZORF	4310	TAC	TST	514600N 131200E		(blank)	30/20		20		23	MIL TRAINING + MAINTENANCE: GROUND TEST ONLY
			D	LAAGE	4989	TAC	TST	535500N 121600E		(blank)	30/20		20		23	MIL TRAINING + MAINTENANCE: GROUND TEST ONLY
				LECHFELD	4181	TAC	TST	480900N 105100E		(blank)	30/20		20		23	MIL TRAINING + MAINTENANCE: GROUND TEST ONLY
				NORVENICH	4216	TAC	TST	505000N 064100E		(blank)	40/20		20		23	MIL TRAINING + MAINTENANCE: GROUND TEST ONLY
				RAMSTEIN	4311	TAC	TST	492600N 073500E		(blank)	30/20		20		23	MIL (US), TRAINING + MAINTENANCE: GROUND TEST ONLY
				SPANGDAHLEM	4312	TAC	TST	496900N 064200E		(blank)	30/20		20		23	MIL (US), TRAINING + MAINTENANCE: GROUND TEST ONLY
				WUNSTORF	4215	TAC	TST	522800N 092600E		(blank)	40/20		20		23	MIL TRAINING + MAINTENANCE: GROUND TEST ONLY
			F	AMBERIEU	4627	TAC	TST	456900N 052000E		(blank)	40/200		200		40	MAINT
	80X		E	SALAMANCA	6774	TAC	TSC	405719N 053009W		(blank)	100/500		500		40	
			I	TREVISO/STRANA	2270	TAC	ISA	454118N 120701E Alt=40		(blank)	220/600		600		39	MIL
			S	STOCKHOLM/MARLANDA	4643	DME	ANE	594138N 180336E		(blank)	25/100		100		27	
			SVK	PRESOV HALAGOS	5380	TAC	PRH	490600N 212200E		(blank)	40/250		250		36	MIL
			TUR	KARS	5309	TAC	KAR	403300N 411200E		(blank)	100/400		400		40	
	80Y		BLR	RAVANICHSKAYA SLABADA	34805	DME	RVS	535454N 283442E		(blank)	50/200		200		32	
			D	COCHSTEDT	4728	DME	COO	515114N 112524E		(blank)	25/100		100		27	
			S	GOTEBORG/LANDVETTER	5973	DME	PGG	574357N 121140E		(blank)	25/250		250		27	
	81X		D	RAMSTEIN	636	TAC	RMS	492605N 073508E		(blank)	80/500		500		40	MIL (US)
			G	FAIRFORD	1649	TAC	FFA	514055N 014751W		(blank)	40/250		250		26	MIL
			NOR	BARDUFOSS	2511	TAC	BAR	60244N 183511E		(blank)	200/600		600		40	
			TUR	KUTAHYA	5612	TAC	KUT	392547N 300046E		(blank)	88/250		250		28	
	81Y		BUL	VITOSHA	7153	DME	VIT	@423555N 231724E Alt=2270		(blank)	200/500		500		37	
			G	ALL UK	1534	DME		ALL UNITED KINGDOM(LAND)		(blank)	100/500		500		37	
			I	AQUILA/PRETIURO	6484	DME	AQP	422228N 131829E		(blank)	50/250		250		37	Planned
	82X		AUT	FREISTADT	63	DME	FRE	482554N 140747E		(blank)	60/500		500		35	
			D	WITTMUNDHAFEN	3559	TAC	WTM	533316N 074330E		(blank)	60/500		500		40	MIL
				LEIPZIG/SCHKEUDITZ	5888	DME	LND	512604N 121333E		(blank)	25/100		100		28	
			NOR	RYGGE	2614	TAC	RYG	@592211N 104840E		(blank)	200/600		600		40	
			POL	OKSYWIE	6156	TAC	TOW	543456N 183023E		(blank)	80/100		100		26	
			ROU	IASI	28438	DME	ISI	471403N 273447E		(blank)	100/250		250		37	ID change from IAS to ISI.
	82Y		TUR	MALATYA/ERHAC	3608	TAC	ERH	382630N 380510E		(blank)	200/600		600		40	
			D	MANNHEIM	4204	DME	MND	492814N 083058E		(blank)	25/100		100		27	
			F	ALL FINLAND	6207	DME		ALL FINLAND(LAND)		(blank)	60/500		500		34	MOBILE
	83X		GIB	GIBRALTAR	1878	TAC	GBR	360800N 052100W		(blank)	200/600		600		40	
			NOR	CERVIA	2138	TAC	CEV	441223N 122126E		(blank)	40/250		250		39	MIL
			I	HUMMELFJELL	2853	TAC	HUM	622857N 111608E		(blank)	200/600		600		40	
			TUR	IZMIR/GIGLI	3157	TAC	GIG	382942N 270033E		(blank)	200/600		600		40	
	83Y		BUL	EMONA	6978	DME	EMO	424511N 274531E		(blank)	200/500		500		37	
			D	BREMEN	7182	DME	BND	530239N 084656E		(blank)	25/100		100		27	
			NOR	NURNBERG/NURNBERG	68425	DME	NBI	493007N 110209E		(blank)	50/500		500		38	Interim facility. Planned operation until Q1/2022
	84X		FIN	NORTH SEA	2586	DME	GFC	611253N 021625E		(blank)	60/250		250		40	PROD.PLATF. GULLFAX C
				ANTON	1434	DME	ANT	605147N 250737E		(blank)	60/500		500		37	
			TUR	ERZURUM	3135	TAC	ERZ	395800N 411200E		(blank)	100/400		400		40	
			MKD	PRILEP	4335	DME	PEP	412016N 212655E		(blank)	80/500		500		39	
			S	STOCKHOLM/MARLANDA	4644	DME	ASW	593516N 174911E		(blank)	25/100		100		27	
			SUI	WEISSFLUH/GIPFEL	5866	DME	WFJ	465000N 094742E		(blank)	80/500		500		37	
	85X		F	TOURS	1414	TAC	TUR	@472520N 004351E		(blank)	150/500		500		40	
			HNG	SZEGED	6004	DME	SEG	461400N 200500E		(blank)	40/250		250		27	
			POL	TRZEBIELINO	6570	DME	TZE	541238N 170424E		(blank)	80/500		500		37	
			POR	MURO	44167	DME	DMU	414848N 081143W Alt=350		(blank)	82/400		400		37	
	85Y		UKR	PECHENIGY	72906	DME	PCH	495416N 365715E		(blank)	160/500		500		37	
			BEL	LIEGELIEGE	73265	DME	TST	504204N 053257E		(blank)	40/250		250		37	
	86X		NOR	MOSJOEN	2580	TAC	MOS	@655240N 131831E		(blank)	200/600		600		40	
			TUR	ERZINCAN	5308	TAC	ERN	394300N 393100E		(blank)	100/400		400		40	
				OPEL	3185	TAC	ARF	404416N 300355E		(blank)	100/600		600		40	
			UKR	VINNYTSIA	33666	DME	VIN	491424N 283715E		(blank)	160/500		500		37	
	86Y		D	HANNOVER	4779	DME	HAD	522808N 094144E		(blank)	25/100		100		28	
			POL	CEWICE	6917	TAC	TOW	542453N 174549E		(blank)	40/100		100		28	
			S	GOTEBORG/LANDVETTER	5974	DME	HGG	573446N 121844E		(blank)	25/250		250		27	MIL
				SVEG	5967	DME	SVE	620247N 142443E		(blank)	100/500		500		37	
	87X		F	SOLENZARA	1385	TAC	SZA	415615N 092358E		(blank)	200/600		600		40	
				SAINT-DIZIER	1364	TAC	SDI	483813N 045321E		(blank)	40/250		250		40	
			ISR	ALL ISRAEL	2341	TAC		ALL ISRAEL(LAND)		(blank)	40/250		250		40	MOBILE
			TUR	YALOVA	5523	TAC	YLV	404100N 292200E		(blank)	40/250		250		37	
			D	MUNSTER/OSNABRUCK	4457	DME	MOD	520817N 074114E		(blank)	25/100		100		28	
			UKR	RUDKIVTSI	72949	DME	RDK	492650N 241224E		(blank)	100/500		500		30	
	88X		D	WIESBADEN	689	TAC	WIB	500246N 081839E		(blank)	40/250		250		31	MIL (US)
			SVK	KOTNIK	71526	DME	KTN	491587N 203634E		(blank)	80/450		450		37	
			TUR	KONYA	3164	TAC	KON	378950N 323345E		(blank)	100/500		500		40	
	88Y		FIN	ALL FINLAND	6212	DME		ALL FINLAND(LAND)		(blank)	60/500		500		34	MOBILE
			IRL	GLENTIEGE	5278	DME	GTG	528111N 080944W		(blank)	200/550		550		39	ELEVATION SITE 971 FT
			TUR	IZMIR/KAKLIC	64645	TAC	KLC	383117N 265845E Alt=80		(blank)	200/250		250		35	
	89Y		BLR	DASHKI	34508	DME	DSK	541445N 272850E		(blank)	50/200		200		32	
			G	NEWCASTLE	6396	DME	NEW	550218N 014154W		(blank)	200/500		500		39	
	90X		GRC	KAVALA/CHRISOUPOLI	1929	TAC	KRP	405500N 243700E		(blank)	100/280		280		40	
			I	ORTANOVA	2198	TAC	ORT	412400N 154705E Alt=16		(blank)	130/350		350		39	MIL
			POL	OSTASZE	70785	DME	OST	528529N 230516E		(blank)	80/500		500		37	planned 2022

COM3- List of national and international assignments in Frequency order

VHF Channel	DME Channel	MLS Channel	CTY	Location	SAFIRE Ref	Service	Rwy Designat Id or	Co-ordinates	TRD	VHFDOC	DMEDOC	MLSDOC	MaxFL	VHF EIRP	DME EIRP	Remarks	
(blank)	90X		ROU	CAMPIA TURZII	6165	TAC	CTZ	463000N 235400E		(blank)	35/200		200			34 MIL	
	91X		D	BERLIN/SCHONEFELD	295	DME	SDD	522228N 133013E		(blank)	25/100		100				
			IRL	MOHERCROM	5279	DME	MCM	535437N 065405W		(blank)	200/550		550			ELEVATION SITE 115 FT	
			TUR	ESKISEHIR	3138	TAC	ESK	394701N 303423E		(blank)	134/300		300				
	91Y		S	STOCKHOLM/ARLANDA	4645	DME	ASE	593814N 175728E		(blank)	25/100		100				
	92X		BUL	KALOTINA	165	DME	FLE	425700N 225200E		(blank)	80/500		500			37 TEST	
			NOR	FLESLAND	2536	TAC	FLE	@601800N 051249E @374203N 074549W		(blank)	200/500		500				
			POR	MERTOLA	27894	DME	DML	Alt=350		(blank)	150/250		250			37	
			TUR	AKINCI	3168	TAC	ZIR	400510N 323434E		(blank)	200/600		600			40	
	92Y		AUT	STRADNERKOGEL	6922	DME	STK	465043N 155555E		(blank)	60/500		500			29	
			BUL	VARBITZA	6977	DME	VRB	425533N 264003E		(blank)	200/500		500				37
			POR	MARAO	44165	DME	DMR	411454N 075313W		(blank)	77/400		400			37	
			ROU	ARAD	68386	DME	SIR	461556N 213952E		(blank)	100/250		250			37	
	93Y		CZE	REVNICOV	5780	DME	RVC	501113N 134730E		(blank)	90/500		500			37	
			DNK	VAERLOSE	5705	DME	BEL	554728N 120545E		(blank)	60/195		195			37	P-RNAV
			UKR	RIVNE	28931	DME	RVN	503632N 260843E		(blank)	160/500		500			37	
	94X		F	LANVEOC-POULMIC	4533	TAC	BST	481704N 042708W		(blank)	40/250		250			40	
			HOL	LEEUWARDEN	2052	TAC	LWD	531325N 054507E		(blank)	150/600		600			35	
			ROU	DAMBOVITA	68389	DME	PMT	444631N 252314E		(blank)	100/250		250			37	
			CNR	LANZAROTE	9045	TAC	TLZ	285641N 133625W		(blank)	200/500		500			40 MIL	
	94Y		FIN	ALL FINLAND	6287	DME	ALL	ALL FINLAND(LAND)		(blank)	60/500		500			34 MOBILE	
	95X		GRC	LIMNOS	1949	TAC	LMN	395600N 251500E		(blank)	100/250		250			40	
			LTU	PALANGA	5440	DME	PLG	555724N 210513E Alt=22		(blank)	100/500		500			37	
	95Y		D	WUNSTORF	4576	TAC	WUN	522717N 092546E		(blank)	80/500		500			40	MIL
	96X		NOR	SKOLTEN	6503	DME	SKO	780558N 163930E		(blank)	160/500		500			37	
			POR	AROUCA	44166	DME	DAR	Alt=350		(blank)	73/400		400			37	
			TUR	BALIKESIR	3109	TAC	BRI	393600N 275600E		(blank)	100/300		300			40	
	97X		D	MUNCHEN	6136	DME	DMS	482026N 114641E		(blank)	25/100		100			28	
			HOL	WOENSDRICHT	2077	TAC	WDT	512651N 042038E		(blank)	40/250		250			35	
			I	CAMERI	2129	TAC	CAM	453413N 083927E		(blank)	40/250		250			39 MIL	
	97Y		BLR	ZVIAZDA	34807	DME	ZVD	533322N 280749E		(blank)	50/200		200			32	
			NOR	NORTH SEA	2587	DME	HEI	651932N 071857E		(blank)	60/100		100			32	PLATF. HEIDRUN
	98X		F	ALL FRANCE	990	TAC	KAE	ALL FRANCE(LAND)		(blank)	40/250		250			40	
			TUR	IZMIR/A.MENDERES	3155	TAC	MEN	381753N 270927E		(blank)	200/600		600			40	
			UKR	USPENIVKA	72950	DME	SPE	460931N 295209E		(blank)	160/500		500			37	
								414151N 244418E		(blank)							
	98Y		BUL	ROZHEN	6979	DME	ROZ	Alt=1790		(blank)	180/500		500			37	
			F	LANDIVISIAU	1176	TAC	LDV	@483142N 048923W		(blank)	200/500		500			40	
				SALON	1379	TAC	SAL	433643N 050610E		(blank)	100/500		500			40	
			FIN	ALL FINLAND	6208	DME	ALL	ALL FINLAND(LAND)		(blank)	60/500		500			34 MOBILE	
	99X		GRC	KALAMATA	1921	TAC	KLM	370400N 220200E		(blank)	100/250		250			40	
			NOR	BLAENGA	6336	DME	BLA	603918N 114344E		(blank)	50/150		150			27	
			POR	ARGA	44168	DME	DSA	414759N 084120W		(blank)	75/400		400			37	
			SVK	KOSICE MAROVKA	71525	DME	KSM	483554N 212546E		(blank)	80/450		450			37	
			TUR	AFYON	3084	TAC	KFK	384316N 303646E		(blank)	100/400		400			40	
	99Y		D	RAMSTEIN	39466	TAC	TSTC	492616N 073605E		(blank)	40/250		250			37 MIL (US)	
								544101N 022704W		(blank)							
			G	GREAT DUN FELL	55246	DME	DUF	Alt=842		(blank)	60/500		500			39	
			I	AMENDOLA	5067	TAC	MNL	413252N 154123E Alt=65		(blank)	40/250		250			39	
			UKR	TERNOPIL	28930	DME	TER	493122N 254154E		(blank)	160/500		500			37	
	606		D	ALL GERMANY	3557	MLS	ALL	ALL GERMANY(LAND)		(blank)		23/100	100				
			(blank)	(blank)	(blank)	(blank)	(blank)	(blank)		(blank)	(blank)	(blank)	(blank)				
	15X		FIN	ALL FINLAND	66165	TAC	FINO	ALL FINLAND(LAND)		(blank)	60/500		500			16	Governmental user; A/A use
			TUR	GAZIANTEP	35485	TAC	GKB	370700N 373800E		(blank)	80/350		350			40	Governmental user; A/A use
	63Y		FIN	ALL FINLAND	36737	TAC	FINK	ALL FINLAND(LAND)		(blank)	60/500		500			16	Governmental user; A/A use
	61Y		FIN	ALL FINLAND	36736	TAC	FINJ	ALL FINLAND(LAND)		(blank)	60/500		500			16	Governmental user; A/A use
	15Y		FIN	ALL FINLAND	36726	TAC	FINA	ALL FINLAND(LAND)		(blank)	60/500		500			16	Governmental user; A/A use
	68Y		FIN	ALL FINLAND	69295	TAC	FION	ALL FINLAND(LAND)		(blank)	60/500		500			16	Governmental user; A/A use
	68X		FIN	ALL FINLAND	69294	TAC	FIOM	ALL FINLAND(LAND)		(blank)	60/500		500			16	Governmental user; A/A use
	66Y		FIN	ALL FINLAND	69293	TAC	FIOI	ALL FINLAND(LAND)		(blank)	60/500		500			16	Governmental user; A/A use
	66X		FIN	ALL FINLAND	69292	TAC	FIOH	ALL FINLAND(LAND)		(blank)	60/500		500			16	Governmental user; A/A use
	65Y		FIN	ALL FINLAND	69291	TAC	FIOG	ALL FINLAND(LAND)		(blank)	60/500		500			16	Governmental user; A/A use
	65X		FIN	ALL FINLAND	69290	TAC	FIOF	ALL FINLAND(LAND)		(blank)	60/500		500			16	Governmental user; A/A use
	69Y		FIN	ALL FINLAND	69288	TAC	FIOB	ALL FINLAND(LAND)		(blank)	60/500		500			16	Governmental user; A/A use
	16Y		FIN	ALL FINLAND	67823	TAC	FIOD	ALL FINLAND(LAND)		(blank)	60/500		500			16	Governmental user; A/A use
	62Y		FIN	ALL FINLAND	67821	TAC	FIOK	ALL FINLAND(LAND)		(blank)	60/500		500			16	Governmental user; A/A use
	16X		FIN	ALL FINLAND	67814	TAC	FIOC	ALL FINLAND(LAND)		(blank)	60/500		500			16	Governmental user; A/A use

VHF Channel	DME Channel	MLS Channel	CTY	Location	SAFIRE Ref	Service	Rwy Designat Id or	Co-ordinates	TRD	VHFDOC	DMEDOC	MLSDOC	MaxFL	VHF EIRP	DME EIRP	Remarks
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VHF Channel	DME Channel	MLS Channel	CTY	Location	SAFIRE Ref	Service	Rwy Designat Id or	Co-ordinates	TRD	VHFDOC	DMEDOC	MLSDOC	MaxFL	VHF EIRP	DME EIRP	Remarks
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VHF Channel	DME Channel	MLS Channel	CTY	Location	SAFIRE Ref	Service	Rwy Designat Id or	Co-ordinates	TRD	VHFDOC	DMEDOC	MLSDOC	MaxFL	VHF EIRP	DME EIRP	Remarks
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VHF Channel	DME Channel	MLS Channel	CTY	Location	SAFIRE Ref	Service	Rwy Designat Id or	Co-ordinates	TRD	VHFDOC	DMEDOC	MLSDOC	MaxFL	VHF EIRP	DME EIRP	Remarks
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VHF Channel	DME Channel	MLS Channel	CTY	Location	SAFIRE Ref	Service	Rwy Designat Id or	Co-ordinates	TRD	VHFDOC	DMEDOC	MLSDOC	MaxFL	VHF EIRP	DME EIRP	Remarks
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VHF Channel	DME Channel	MLS Channel	CTY	Location	SAFIRE Ref	Service	Rwy Designat Id or	Co-ordinates	TRD	VHFDOC	DMEDOC	MLSDOC	MaxFL	VHF EIRP	DME EIRP	Remarks
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VHF Channel	DME Channel	MLS Channel	CTY	Location	SAFIRE Ref	Service	Rwy Designat Id or	Co-ordinates	TRD	VHFDOC	DMEDOC	MLSDOC	MaxFL	VHF EIRP	DME EIRP	Remarks
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VHF Channel	DME Channel	MLS Channel	CTY	Location	SAFIRE Ref	Service	Rwy Designat Id or	Co-ordinates	TRD	VHFDOC	DMEDOC	MLSDOC	MaxFL	VHF EIRP	DME EIRP	Remarks
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VHF Channel	DME Channel	MLS Channel	CTY	Location	SAFIRE Ref	Service	Rwy Designat Id or	Co-ordinates	TRD	VHFDOC	DMEDOC	MLSDOC	MaxFL	VHF EIRP	DME EIRP	Remarks
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VHF Channel	DME Channel	MLS Channel	CTY	Location	SAFIRE Ref	Service	Rwy Designat Id or	Co-ordinates	TRD	VHFDOC	DMEDOC	MLSDOC	MaxFL	VHF EIRP	DME EIRP	Remarks
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VHF Channel	DME Channel	MLS Channel	CTY	Location	SAFIRE Ref	Service	Rwy Designat Id or	Co-ordinates	TRD	VHFDOC	DMEDOC	MLSDOC	MaxFL	VHF EIRP	DME EIRP	Remarks
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VHF Channel	DME Channel	MLS Channel	CTY	Location	SAFIRE Ref	Service	Rwy Designat Id or	Co-ordinates	TRD	VHFDOC	DMEDOC	MLSDOC	MaxFL	VHF EIRP	DME EIRP	Remarks
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VHF Channel	DME Channel	MLS Channel	CTY	Location	SAFIRE Ref	Service	Rwy Designat Id or	Co-ordinates	TRD	VHFDOC	DMEDOC	MLSDOC	MaxFL	VHF EIRP	DME EIRP	Remarks
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VHF Channel	DME Channel	MLS Channel	CTY	Location	SAFIRE Ref	Service	Rwy Designat Id or	Co-ordinates	TRD	VHFDOC	DMEDOC	MLSDOC	MaxFL	VHF EIRP	DME EIRP	Remarks
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VHF Channel	DME Channel	MLS Channel	CTY	Location	SAFIRE Ref	Service	Rwy Designat Id or	Co-ordinates	TRD	VHFDOC	DMEDOC	MLSDOC	MaxFL	VHF EIRP	DME EIRP	Remarks
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VHF Channel	DME Channel	MLS Channel	CTY	Location	SAFIRE Ref	Service	Rwy Designat Id or	Co-ordinates	TRD	VHFDOC	DMEDOC	MLSDOC	MaxFL	VHF EIRP	DME EIRP	Remarks
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VHF Channel	DME Channel	MLS Channel	CTY	Location	SAFIRE Ref	Service	Rwy Designat Id or	Co-ordinates	TRD	VHFDOC	DMEDOC	MLSDOC	MaxFL	VHF EIRP	DME EIRP	Remarks
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VHF Channel	DME Channel	MLS Channel	CTY	Location	SAFIRE Ref	Service	Rwy Designat Id or	Co-ordinates	TRD	VHFDOC	DMEDOC	MLSDOC	MaxFL	VHF EIRP	DME EIRP	Remarks
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VHF Channel	DME Channel	MLS Channel	CTY	Location	SAFIRE Ref	Service	Rwy Designat Id or	Co-ordinates	TRD	VHFDOC	DMEDOC	MLSDOC	MaxFL	VHF EIRP	DME EIRP	Remarks
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VHF Channel	DME Channel	MLS Channel	CTY	Location	SAFIRE Ref	Service	Rwy Designat Id or	Co-ordinates	TRD	VHFDOC	DMEDOC	MLSDOC	MaxFL	VHF EIRP	DME EIRP	Remarks
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VHF Channel	DME Channel	MLS Channel	CTY	Location	SAFIRE Ref	Service	Rwy Designat Id or	Co-ordinates	TRD	VHFDOC	DMEDOC	MLSDOC	MaxFL	VHF EIRP	DME EIRP	Remarks
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VHF Channel	DME Channel	MLS Channel	CTY	Location	SAFIRE Ref	Service	Rwy Designat Id or	Co-ordinates	TRD	VHFDOC	DMEDOC	MLSDOC	MaxFL	VHF EIRP	DME EIRP	Remarks
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VHF Channel	DME Channel	MLS Channel	CTY	Location	SAFIRE Ref	Service	Rwy Designat Id or	Co-ordinates	TRD	VHFDOC	DMEDOC	MLSDOC	MaxFL	VHF EIRP	DME EIRP	Remarks
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VHF Channel	DME Channel	MLS Channel	CTY	Location	SAFIRE Ref	Service	Rwy Designat Id or	Co-ordinates	TRD	VHFDOC	DMEDOC	MLSDOC	MaxFL	VHF EIRP	DME EIRP	Remarks
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VHF Channel	DME Channel	MLS Channel	CTY	Location	SAFIRE Ref	Service	Rwy Designat Id or	Co-ordinates	TRD	VHFDOC	DMEDOC	MLSDOC	MaxFL	VHF EIRP	DME EIRP	Remarks
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VHF Channel	DME Channel	MLS Channel	CTY	Location	SAFIRE Ref	Service	Rwy Designat Id or	Co-ordinates	TRD	VHFDOC	DMEDOC	MLSDOC	MaxFL	VHF EIRP	DME EIRP	Remarks
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VHF Channel	DME Channel	MLS Channel	CTY	Location	SAFIRE Ref	Service	Rwy Designat Id or	Co-ordinates	TRD	VHFDOC	DMEDOC	MLSDOC	MaxFL	VHF EIRP	DME EIRP	Remarks
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VHF Channel	DME Channel	MLS Channel	CTY	Location	SAFIRE Ref	Service	Rwy Designat Id or	Co-ordinates	TRD	VHFDOC	DMEDOC	MLSDOC	MaxFL	VHF EIRP	DME EIRP	Remarks
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VHF Channel	DME Channel	MLS Channel	CTY	Location	SAFIRE Ref	Service	Rwy Designat Id or	Co-ordinates	TRD	VHFDOC	DMEDOC	MLSDOC	MaxFL	VHF EIRP	DME EIRP	Remarks
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VHF Channel	DME Channel	MLS Channel	CTY	Location	SAFIRE Ref	Service	Rwy Designat Id or	Co-ordinates	TRD	VHFDOC	DMEDOC	MLSDOC	MaxFL	VHF EIRP	DME EIRP	Remarks
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VHF Channel	DME Channel	MLS Channel	CTY	Location	SAFIRE Ref	Service	Rwy Designat Id or	Co-ordinates	TRD	VHFDOC	DMEDOC	MLSDOC	MaxFL	VHF EIRP	DME EIRP	Remarks
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VHF Channel	DME Channel	MLS Channel	CTY	Location	SAFIRE Ref	Service	Rwy Designat Id or	Co-ordinates	TRD	VHFDOC	DMEDOC	MLSDOC	MaxFL	VHF EIRP	DME EIRP	Remarks
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VHF Channel	DME Channel	MLS Channel	CTY	Location	SAFIRE Ref	Service	Rwy Designat Id or	Co-ordinates	TRD	VHFDOC	DMEDOC	MLSDOC	MaxFL	VHF EIRP	DME EIRP	Remarks
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COM3- List of national and international assignments in [Frequency order](#)

VHF Channel	DME Channel	MLS Channel	CTY	Location	SAFIRE Ref	Service	Rwy Designat Id or	Co-ordinates	TRD	VHFDOC	DMEDOC	MLSDOC	MaxFL	VHF EIRP	DME EIRP	Remarks
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VHF Channel	DME Channel	MLS Channel	CTY	Location	SAFIRE Ref	Service	Rwy Designat Id or	Co-ordinates	TRD	VHFDOC	DMEDOC	MLSDOC	MaxFL	VHF EIRP	DME EIRP	Remarks
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VHF Channel	DME Channel	MLS Channel	CTY	Location	SAFIRE Ref	Service	Rwy Designat Id or	Co-ordinates	TRD	VHFDOC	DMEDOC	MLSDOC	MaxFL	VHF EIRP	DME EIRP	Remarks
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VHF Channel	DME Channel	MLS Channel	CTY	Location	SAFIRE Ref	Service	Rwy Designat Id or	Co-ordinates	TRD	VHFDOC	DMEDOC	MLSDOC	MaxFL	VHF EIRP	DME EIRP	Remarks
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VHF Channel	DME Channel	MLS Channel	CTY	Location	SAFIRE Ref	Service	Rwy Designat Id or	Co-ordinates	TRD	VHFDOC	DMEDOC	MLSDOC	MaxFL	VHF EIRP	DME EIRP	Remarks
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VHF Channel	DME Channel	MLS Channel	CTY	Location	SAFIRE Ref	Service	Rwy Designat Id or	Co-ordinates	TRD	VHFDOC	DMEDOC	MLSDOC	MaxFL	VHF EIRP	DME EIRP	Remarks
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VHF Channel	DME Channel	MLS Channel	CTY	Location	SAFIRE Ref	Service	Rwy Designat Id or	Co-ordinates	TRD	VHFDOC	DMEDOC	MLSDOC	MaxFL	VHF EIRP	DME EIRP	Remarks
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VHF Channel	DME Channel	MLS Channel	CTY	Location	SAFIRE Ref	Service	Rwy Designat Id or	Co-ordinates	TRD	VHFDOC	DMEDOC	MLSDOC	MaxFL	VHF EIRP	DME EIRP	Remarks
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VHF Channel	DME Channel	MLS Channel	CTY	Location	SAFIRE Ref	Service	Rwy Designat Id or	Co-ordinates	TRD	VHFDOC	DMEDOC	MLSDOC	MaxFL	VHF EIRP	DME EIRP	Remarks
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VHF Channel	DME Channel	MLS Channel	CTY	Location	SAFIRE Ref	Service	Rwy Designat Id or	Co-ordinates	TRD	VHFDOC	DMEDOC	MLSDOC	MaxFL	VHF EIRP	DME EIRP	Remarks
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VHF Channel	DME Channel	MLS Channel	CTY	Location	SAFIRE Ref	Service	Rwy Designat Id or	Co-ordinates	TRD	VHFDOC	DMEDOC	MLSDOC	MaxFL	VHF EIRP	DME EIRP	Remarks
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VHF Channel	DME Channel	MLS Channel	CTY	Location	SAFIRE Ref	Service	Rwy Designat Id or	Co-ordinates	TRD	VHFDOC	DMEDOC	MLSDOC	MaxFL	VHF EIRP	DME EIRP	Remarks
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VHF Channel	DME Channel	MLS Channel	CTY	Location	SAFIRE Ref	Service	Rwy Designat Id or	Co-ordinates	TRD	VHFDOC	DMEDOC	MLSDOC	MaxFL	VHF EIRP	DME EIRP	Remarks
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VHF Channel	DME Channel	MLS Channel	CTY	Location	SAFIRE Ref	Service	Rwy Designat Id or	Co-ordinates	TRD	VHFDOC	DMEDOC	MLSDOC	MaxFL	VHF EIRP	DME EIRP	Remarks
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VHF Channel	DME Channel	MLS Channel	CTY	Location	SAFIRE Ref	Service	Rwy Designat Id or	Co-ordinates	TRD	VHFDOC	DMEDOC	MLSDOC	MaxFL	VHF EIRP	DME EIRP	Remarks
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VHF Channel	DME Channel	MLS Channel	CTY	Location	SAFIRE Ref	Service	Rwy Designat Id or	Co-ordinates	TRD	VHFDOC	DMEDOC	MLSDOC	MaxFL	VHF EIRP	DME EIRP	Remarks
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COM3- List of national and international assignments in [Frequency order](#)

VHF Channel	DME Channel	MLS Channel	CTY	Location	SAFIRE Ref	Service	Rwy Designat Id or	Co-ordinates	TRD	VHFDOC	DMEDOC	MLSDOC	MaxFL	VHF EIRP	DME EIRP	Remarks
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