

COM3- List of national and international assignments in country order

CTY	Location	SAFIRE Ref	Service	Rwy Designator	VHF Channel	DME Channel	MLS Channel	Id	Co-ordinates	TRD	VHFDOC	DMEDEC	MLSDOC	MaxFL	VHF EIRP	DME EIRP	Remarks
ALB	KUKES	5773	VOR/DME		112.150	58Y		LKU	420200N 202400E		25/100	25/100		100	17	29	DVOR
		3	VOR/DME		117.700	124X		TRN	412458N 194308E Alt=30		60/250	60/250		250	17	37	
		5740	ILS/DME	17	109.100	28X		ITR	TRD 412359N 194321E 412577N 194315E	354	25/62.5	25/100		100		29	
ALG	ADRAR/TOUAT	51545	ILS/DME	35	109.100	28X		ILI	412419N 194324E	174	25/62.5	25/100		100	14	29	
		4	VOR/DME		112.600	73X		ADR	274901N 001221W		25/100	25/100		100	17	37	
		6	ILS/DME	9	108.500	22X		HB	TRD 364128N 031248E 364127N 031027E	272	25/62.5	25/100		100		29	
ALG	ALGER/H.BOU-MEDIENE	7	ILS/DME	23	110.300	40X		AG	TRD 364132N 031303E 364237N 031457E	52	25/62.5	25/100		100		29	
		8	VOR/DME		112.500	72X		ALR	364128N 031266E		200/500	200/500		500	17	37	DVOR
		23	VOR/DME		114.100	88X		DJA	241716N 092712E		200/500	200/500		500	17	37	DVOR
ALG	DJANET/TISKA	72188	ILS/DME	13	109.900	36X		DJA	TRD 241630N 092848E 241716N 092712E	305	25/62.5	25/100		100		29	
		26	VOR/DME		112.100	58X		MNA	303331N 025142E		200/500	200/500		500	17	37	
		29	VOR/DME		112.100	58X		MNA	TRD 322305N 034733E		200/500	200/500		500	17	37	
ALG	GHARDAIA/NOUMERATE	26	ILS/DME	30	109.500	32X		GH	322210N 034910E	122	25/62.5	25/100		100		29	
		31	VOR/DME		114.900	96X		GHA	322336N 034640E		200/500	200/500		500	17	37	DVOR
		35	VOR/DME		115.600	103X		ILZ	264315N 083099E		200/500	150/500		500	17	30	
ALG	ILLIZI	36	VOR		113.400			IGZ	193349N 054402E		200/500			500	17	30	
		53	VOR/DME		112.800	75X		TIO	291334N 001529E		200/500	200/500		500	17	37	
		54	VOR/DME		114.200	89X		TDF	274236N 080751W		200/260	200/260		260	17	37	
ALG	JEMMOURI	56	VOR/DME		116.500	112X		TLM	350054N 012446W		200/500	200/500		500	16	30	D-VOR
		58	VOR/DME		116.600	113X		ZEM	364743N 033415E		200/500	200/500		500	17	37	DVOR
		4283	VOR/DME		117.900	126X		JIL	364751N 052322E		200/500	200/500		500	17	37	D-VOR
ALG	JELUFERHAT ABBAS	72186	ILS/DME	17	108.100	18X		JL	364654N 052342E		25/62.5	25/100		100		29	
		39	VOR/DME		112.200	59X		MOS	355358N 000511E		200/500	200/500		500	17	37	
		27	VOR/DME		117.600	123X		ELO	333038N 064650E		200/500	200/500		500	17	37	
ALG	MOSTAGANEM	73305	ILS/DME	34	108.300	20X		CNT	TRD 361553N 063712E Alt=702	158	25/62.5	25/100		123		20	
		18	VOR/DME		115.900	106X		BSA	351956N 041230E		200/500	200/500		500	17	37	
		15	VOR/DME		115.300	100X		BBS	300126N 021350W		200/500	150/500		500	17	30	
ALG	EL OUED/GUEMAR	32	ILS/DME	36	109.100	28X		HM	TRD 314121N 060830E 313945N 060817E	184	25/62.5	25/100		100		29	
		34	VOR/DME		114.700	94X		HME	313951N 061246E		200/500	200/500		500	17	37	DVOR
		20	VOR/DME		115.500	102X		CSO	361736N 063630E		200/500	200/500		500	17	37	DVOR
ALG	HASSI MESSAOUD/OUED IRARA	22	ILS/DME	31	109.300	30X		CT	TRD 361711N 063645E 361619N 063753E	136	25/62.5	25/100		100		20	
		40	VOR/DME		114.700	94X		OR	TRD 363647N 003639W		200/500	200/500		500	17	37	
		42	VOR/DME		114.000	87X		ORA	363645N 003918W		200/500	200/500		500	17	37	
ALG	ORAN/AHMED BENBELLA	72190	ILS/DME	25R	108.900	26X		RN	TRD 363656N 003843W		25/62.5	25/100		100		29	
		17	VOR/DME		114.300	90X		BOD	280759N 065021E		200/500	200/500		500	17	37	
		49	VOR/DME		112.500	72X		TMS	224827N 052647E		200/500	200/500		500	17	37	D-VOR
ALG	BORDJ OMAR DRISS	4442	ILS/DME	20	108.500	22X		TM	TRD 224743N 052639E 224826N 052731E	23	25/62.5	25/100		100		29	
		72189	ILS/DME	8	110.100	38X		TA	224831N 052534E	262	25/62.5	25/100		100		29	
		14	ILS/DME	26	110.500	42X		BJ	TRD 364236N 050313E	82	25/62.5	20/100		100		29	Pas de GP?
ALG	BEJAIA/RAMDANE	51909	VOR/DME		113.000	77X		BJA	364252N 050449E		250/500	200/500		500	17	37	
		5778	VOR/DME		114.600	93X		STF	361036N 051719E		40/250	40/250		250	17	17	
		72187	ILS/DME	27	110.900	46X		ST	TRD 361040N 051843E 361041N 052033E	86	25/62.5	25/100		100		29	
ALG	BECHAR/BEN ALI LOTF	13	VOR/DME		113.900	86X											
		51910	ILS/DME	18	108.100	18X		BC	TRD 313745N 021540W 313922N 021536W	1	25/62.5	25/100		100		29	
		11	ILS/DME	19	109.700	34X		AN	TRD 364859N 074831E 365033N 074840E	7	25/62.5	20/100		100		29	
ALG	ANNABA/RABAH BITAT	12	VOR/DME		113.500	82X		ANB	364957N 074852E		200/500	200/500		500	17	37	
		72185	VOR/DME		114.000	87X		MOK	212257N 005702E		200/500	200/500		500	17	37	
		57	VOR/DME		112.900	76X		IMN	280400N 093939E		200/500	200/500		500	17	37	DVOR
ALG	ZARZAITINE/IN AMENAS	51915	VOR/DME		117.000	117X		IMN	280259N 093939E		200/500	150/500		500	17	37	
		5695	VOR/DME		117.000	117X		CLF	361248N 011920E		40/250	40/250		250	17	37	
		52	VOR/DME		116.300	110X		TRB	352052N 013054E		200/500	150/500		500	17	37	
ALG	TIARET/BOU CHEKIF	51918	VOR/DME		114.800	95X		BAY	334235N 010445E		200/500	100/500		500	17	30	D-VOR
		51917	VOR		113.100			GRS	351234N 040150E		200/500			500	17	37	
		46	VOR/DME		112.700	74X		OUR	315632N 052501E		200/500	100/500		500	17	30	
ALG	OUARGLA/AIN BEIDJ	51914	ILS/DME	36	108.900	26X		OG	TRD 315555N 052501E 315419N 052504E	179	25/62.5	25/100		100		30	
		4281	VOR/DME		115.000	97X		BIS	344633N 054549E		250/500	200/500		500	17	37	
		51911	ILS/DME	31	110.900	46X		BI	TRD 344812N 054324E	128	25/62.5	25/150		150		20	
ALG	TEBESSA/C. LARBI TEBESSI	51	VOR/DME		114.500	92X		TBS	352724N 080407E		200/500	200/500		500	17	37	DVOR
		4444	VOR/DME		115.400	101X		HRM	325615N 032124E		100/500	100/500		500	17	37	
		4441	VOR/DME		115.700	104X		BTN	354617N 062038E		200/500	200/500		500	17	37	
ALG	BATNA/IBEN BOULALIC	4282	VOR/DME		113.200	79X		TGU	330326N 060503E		200/500	200/500		500	17	37	
		37	VOR/DME		113.100	78X		NSL	271448N 023009E		200/500	200/500		500	17	37	
		59	ILS		108.100				TRD 400851N 442527E								
ARM	YEREVAN/ZVARTNOTS	4004	VOR/DME	9	108.100			IZR	400846N 442238E	270	25/62.5			62			
		3405	ILS	2	110.300			ZVR	@400849N 442017E		200/500	200/500		500	17	37	
		4000	VOR/DME		113.400	81X		IGM	TRD 404600N 435207E 404421N 435116E	204	25/62.5			62			
AUT	FREISTADT	63	DME		113.400	82X		GRM	@404348N 435050E		50/250	50/250		500	17	29	TVOR DOPPLER
		66	VOR/DME		116.200	109X		FRE	482354N 041074E		(blank)	60/500		500		35	
		68	ILS/DME	8	109.700	34X		GRZ	465719N 152658E		60/500	60/500		500	17	35	
AUT	INNSBRUCK	68	ILS/DME	8	109.700	34X		OEJ	TRD 471853N 113608E	248	25/62.5	25/150		150		27	TRD also 68

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AUT	INNSBRUCK	5571	DME				57X	PAT	471231N 112737E Alt=2246		(blank)	60/500		500		37	
	STOCKERAU	82	VOR/DME		113.000		77X	STO	482502N 160107E 482502N 160108E TRD 480507N 163534E		60/500	60/500		500	17	37	
	WIEN/SCHWECHAT	87	ILS/DME	16	108.500		22X	OEZ	480703N 163453E TRD 480616N 163522E 480714N 163209E 480713N 163210E TRD 480723N 163438E	344	25/62.5	25/100		100		27	
		92	ILS/DME	11	110.300		40X	OEW	480529N 163532E 480529N 163533E TRD 480728N 163414E 480632N 163418E	295	25/62.5	25/100		100		27	
		4573	ILS/DME	34	108.100		18X	OEN	480632N 163417E 480632N 163418E 480632N 163419E	164	25/62.5	25/100		100		27	
		5325	ILS/DME	29	109.550		32Y	OEX	480632N 163417E	116	25/62.5	25/180		180		27	
		37925	GBAS		109.875			GVI	480631N 163418E		23/100			100	19		
	ZELTWEIG	6920	TAC				47X	ZWG	471214N 144445E		(blank)	25/90		90			3 MIL
		7185	TAC				53X	ZEW	471214N 144445E		(blank)	25/90		90			3 MIL
	WAGRAM	85	VOR/DME		112.200		59X	WGM	481926N 162927E @464147N 135454E		60/250	60/250		250	17	37	
	VILLACH	84	DME				76X	VIW	Alt=1919		(blank)	80/500		500		37	
	SOLLENAU	81	VOR/DME		115.500		102X	SNU	Alt=271		60/500	60/500		500	17	28	
	SALZBURG	80	VOR/DME		113.800		85X	SBG	@480009N 125334E Alt=455		80/500	80/500		500	17	35	
	LINZ	77	VOR/DME		116.600		113X	LNZ	@481347N 140611E 481347N 140612E		80/500	80/500		500	17	35	
	KLAGENFURT STRADNERKOGEL	74 6922	VOR/DME DME		113.100		78X 92Y	KFT STK	@463551N 143344E 463552N 143344E 465042N 145555E 471655N 154623E		80/500 80/500	80/500 80/500		500 500	17 29	35 29	
	RABENWALD	6921	DME				58Y	RAW	Alt=1059		(blank)	60/500		500		29	
	FISCHAMEND	62	VOR/DME		110.400		41X	FMD	480618N 163745E 474818N 139642E		60/500 60/500	60/500 60/500		500 500	17	35	TVOR
	GAISBERG	6105	DME				31Y	GSB	Alt=1305 464714N 145816E		(blank)	60/500		500		30	
	KORALPE	5854	DME				31X	KOR	Alt=2146		(blank)	60/500		500		37	
	TULLN-LANGELNBARN	63	VOR/DME		111.400		51X	TUN	481934N 165847E TRD 474645N 130047E 474803N 130004E		25/100 25/100	25/100 25/100		100 100	17	28	
	SALZBURG/SALZBURG	78 69405	ILS/DME GBAS	16	109.900 113.250		36X	OES GSBG	474803N 130005E 474738N 130005E TRD 481357N 140953E 481357N 141208E	337	25/62.5 23/100	25/100		100 100	19	27	
	LINZ/LINZ	75	ILS/DME	27	109.300		30X	OEL	481356N 141208E TRD 481403N 141238E 481354N 141030E	87	25/62.5	25/100		100		27	
		5086	ILS/DME	9	110.550		42Y	OEM	481353N 141031E	267	25/62.5	25/100		100		29	
	ELBE	72197	VOR/DME		115.100		98X	LBV	533912N 093442E TRD 463348N 1411901E 463819N 142101E		80/500 80/500	80/500		500	17	37	
	KLAGENFURT/KLAGENFURT	72	ILS/DME	29	110.100		38X	OEK	463819N 142100E TRD 471531N 112026E 471536N 112113E 471535N 112113E	106	25/62.5	25/100		100		27	
	INNSBRUCK/INNSBRUCK	70	ILS/DME	26	111.100		48X	OEV	TRD 470024N 152607E 465849N 152628E	74	25/62.5	25/150		150		27	
	GRAZ/GRAZ	4445	ILS/DME	35	110.900		46X	OEG	402519N 500350E	169	25/62.5	25/100		100		27	
AZE	BAKU	7106	VOR/DME		115.000		97X	BAK	TRD 394624N 494746E 384452N 484845E		25/100 25/100	25/100		100	17	37	DVOR
	LENKORAN	6234	ILS/DME	33	109.900		36X	ILM	TRD 391201N 452632E 391046N 452809E	151	25/62.5	25/100		100		29	
	NAKHICHEVAN	5368	ILS/DME	32L	111.100		48X	INL	391201N 452632E	138	25/62.5	25/100		100		29	
		6728	VOR/DME		116.500		112X	NAX	TRD 391030N 452828E 391204N 452638E 391152N 452658E 391937N 452802E		100/500 100/500	100/500		500	20	37	DVOR
		56845	ILS/DME	32R	109.100		28X	INO	TRD 391030N 452828E 391152N 452658E	138	25/62.5	25/100		100	14	24	
		56825	ILS/DME	14L	109.500		32X	INT	TRD 391031N 452820E 391144N 452648E	318	25/62.5	25/100		100	14	24	
		72191	ILS/DME	14R	111.700		54X	INR	391152N 452658E	318	25/62.5	25/100		100		29	
		68487	GBAS		117.500			UBBN	391152N 452658E		30/100			100	19		
	QABALA	6984	VOR/DME		112.500		72X	QBL	404957N 474306E TRD 404935N 474312E 404748N 474359E		25/100 25/100	25/100		100	17	37	DVOR
		6985	ILS/DME	34	110.300		40X	IQR	TRD 404728N 474350E 404918N 474323E	167	25/62.5	25/100		100		29	
		6987	ILS/DME	16	111.900		56X	IQL	404513N 461744E	347	25/62.5	25/100		100	20	37	DVOR
	GANJA	6729	VOR/DME		115.800		105X	GND	TRD 404542N 462017E 404450N 461831E TRD 404457N 461810E		100/500 100/500	100/500		500	20	37	DVOR
		72195	ILS/DME	12	111.300		50X	ISL	404351N 461952E	308	25/62.5	25/100		100		29	
		72194	ILS/DME	30	110.900		46X	IGR	TRD 413421N 463942E 413253N 464042E	128	25/62.5	25/100		100		29	
	ZAGATALA	8129	ILS/DME	33	109.100		28X	IJK	413314N 464012E	158	25/62.5	25/100		100		29	
		51145	VOR/DME		114.100		88X	ZAQ	TRD 403837N 470729E 403753N 470849E		100/500 100/500	100/500		500	20	37	CVOR
	YEVLAKH	28005	ILS/DME	30	110.100		38X	IEV	TRD 402915N 500147E 402945N 500144E	130	25/62.5	26/131		131		27	
	BAKU/HEYDAR ALIYEV	95	ILS/DME	16	109.500		32X	IBI	TRD 402731N 500220E	346	25/62.5	25/100		100		29	
		96	ILS/DME	34	111.700		54X	IBN		166	25/62.5	25/100		100		29	

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AZE	BAKU/HEYDAR ALIYEV	72193	ILS/DME	35	109.300	30X		IBA	TRD 402925N 500348E	179	25/62.5	25/100		100	10	29		
									402738N 500342E									
	FUZULI	72192	ILS/DME	17	110.500	42X		IBU	TRD 402715N 500348E	359	25/62.5	25/100		100	29			
									402856N 500341E									
		74588	VOR/DME			112.800	75X		FZL	393513N 471219E	111	25/62.5	25/100		100	10	37	
										TRD 393522N 471059E								
	BEL	ANTWERPEN/DEURNE	107	ILS/DME	29	111.750	54Y		IAD	511116N 042806E	110	25/62.5	25/100		100	29		
										511126N 042821E								
			74587	ILS/DME	29	108.900	26X		IFZ	393516N 471248E	111	25/62.5	25/100		100	29		
										TRD 393504N 471308E								
		74586	ILS/DME	11	108.300	20X		IFL	393544N 471124E	290	25/62.5	25/100		100	29			
									TRD 511134N 042704E									
		63986	ILS/DME	11	111.750	54Y		IADO	511130N 042739E	290	25/62.5	25/100		100	29			
									511144N 042832E									
		4864	ILS	22R	111.350	44L		IBBE	504525N 044607E	39	25/62.5			62			MIL	
									TRD 504448N 044510E									
	5290	ILS	04L	111.350			IBEV	504500N 044500E	219	25/62.5			62			MIL		
								TRD 504500N 044500E										
	113	ILS/DME	25R	108.900	26X		IBR	505441N 042941E	65	25/62.5	25/100		100	29				
								TRD 505456N 043011E										
	114	ILS/DME	1	109.900	36X		IBX	505324N 042940E	194	25/62.5	25/100		100	35				
								TRD 505319N 042841E										
	4001	ILS/DME	25L	110.350	40Y		IBL	505349N 043111E	65	25/62.5	25/100		100	29				
								TRD 505359N 043135E										
	4014	ILS/DME	07R	110.350	40Y		IBL	505322N 042913E	250	25/62.5	25/100		100	29		Planned opposite RWY		
								TRD 505306N 042928E										
	4016	ILS/DME	07L	108.900	26X		IBL	505500N 043000E	250	25/62.5	25/100		100	29		Planned opposite RWY		
								TRD 505306N 042928E										
	4617	ILS/DME	19	111.150	48Y		IBM	505430N 043007E	14	25/62.5	25/100		100	29				
								TRD 505448N 043032E										
	6422	ILS/DME	07L	109.550	32Y		IBRO	505408N 042748E	250	25/62.5	25/100		100	29		Planned		
								TRD 503428N 034903E										
	125	ILS	26	108.550			ICV	503438N 035106E	80	25/62.5			62			MIL USAF		
								503428N 034958E										
	128	VOR/TAC		113.200	79X		CIV	503420N 034918E	60/500	60/500	500	17	40	MIL USAF TACAN - DIST.TAC-DVOR 8				
								503420N 034918E										
	132	TAC		113.200	52X		BFS	@501429N 043912E	(blank)	200/500	500	40	MIL					
								501429N 043912E										
	4019	ILS/DME	25R	108.350	20Y		IBFS	TRD 501427N 043731E	79	25/62.5	25/100		100	29	MIL			
								501429N 043948E										
	5291	ILS/DME	8	108.350	20Y		IFLR	501434N 043800E	260	25/62.5	25/100		100	29	MIL			
								TRD 501447N 044021E										
	141	ILS/DME	22L	109.350	30Y		ILG	503734N 052534E	45	25/62.5	25/100		100	29				
								TRD 503734N 052534E										
	4331	VOR/DME		115.450	101Y		LGE	503914N 052814E	45	25/62.5	40/250		250	17	37			
								TRD 503743N 052533E										
	4621	ILS/DME	22R	109.350	30Y		IBI	503940N 052655E	45	25/62.5	25/100		100	29				
								TRD 503851N 052722E										
	4622	ILS/DME	04L	109.350	30Y		IBI	503803N 052527E	225	25/62.5	25/100		100	29				
								TRD 503906N 052800E										
	5885	ILS/DME	04R	108.750	24Y		IHH	503754N 052588E	225	25/62.5	25/100		100	32				
								TRD 503743N 052533E										
	55126	ILS/DME	22R	108.750	24Y		IBI	504204N 053287E	45	25/62.5	25/100		100	32				
								TRD 504204N 053287E										
	73265	DME					TST	504204N 053287E	45	25/62.5	25/100		100	32				
								TRD 511145N 025056E										
	148	ILS	26	109.500			IOS	511202N 025319E	76	25/62.5			62					
								TRD 511248N 025403E										
	4682	ILS/DME	8	111.550	52Y		IMI	511148N 025142E	256	25/62.5	25/100		100	35	DIRECTIONAL DME			
								TRD 511148N 025142E										
	99	TAC		111.550	26Y		ALL BELGIUM(LAND)	(blank)	40/250	250	40	MIL - Not usable in a circle of 10 NM around LIA'ge airport						
								511148N 025142E										
	100	TAC		111.550	34X		ALL BELGIUM(LAND)	(blank)	40/250	250	40	MIL - Not usable in a circle of: a) 10 NM around Brussels and Luxembourg airport and b) 45 NM around kleine Brogel airp						
								511148N 025142E										
	102	TAC		111.550	54X		ALL BELGIUM(LAND)	(blank)	40/250	250	40	MIL - Not usable in a circle of: a) 10NM around Florennes and Gize Rijen (HOL) airport and b) 45 NM around De Peel (HOL) airp						
								511148N 025142E										
	103	TAC		111.550	112Y		ALL BELGIUM(LAND)	(blank)	40/250	250	40	MIL - NOT USABLE IN A ZONE OF 45NM FROM MENDING(D) MSL/DME CH.113Z						
								511148N 025142E										
	4333	TAC		111.550	60X		ALL BELGIUM(LAND)	(blank)	40/250	250	40	MIL						
								511148N 025142E										
	98	VOR/DME		114.900	96X		AFI	@505428N 040820E	90/250	90/250	250	17	37					
								TRD 510933N 052708E										
	4024	ILS/DME	23R	109.950	36Y		IBBL	511022N 052851E	50	25/62.5	25/100		100	29	MIL			
								TRD 511022N 052851E										
	5461	TAC		109.950	33X		IBL	511013N 052759E	390	25/62.5	25/100		100	29	MIL			
								TRD 511013N 052759E										
	57805	ILS/DME	5	109.950	36Y		IKNB	TRD 511022N 052851E	230	25/62.5	25/100		100	29				
								511013N 052759E										
	57586	VOR/TAC		109.950	36Y		HIL	511013N 052759E	390	25/62.5	25/100		100	29				
								TRD 511013N 052759E										
	4612	VOR/DME		112.050	57Y		FLO	505236N 050504E	50/250	50/250	250	17	37					
								TRD 505236N 050504E										
	4025	VOR/DME		110.050	37Y		COA	512053N 032119E	60/500	60/500	500	17	37					
								TRD 512053N 032119E										
	152	VOR/DME		113.100	78X		SPI	@503053N 053725E	80/500	80/500	500	17	37					
								TRD 503053N 053725E										
	146	VOR/DME		112.800	75X		LNO	@503053N 053725E	80/500	80/500	500	17	37					
								TRD 503053N 053725E										
	145	VOR/DME		117.400	121X		NIK	@510954N 041102E	100/500	100/500	500	17	37					
								TRD 510954N 041102E										
	139	ILS/MLS/DME	24	110.700	44X	526	IKT	TRD 504850N 031140E	62	25/62.5	25/100	23/100	100	29				
								504850N 031140E										
	138	VOR/TAC		114.500	92X		KOK	@10557N 023920E	160/500	100/500	500	17	40	MIL TACAN 100NM 90-157.5T				
								TRD 10557N 023920E										
	134	VOR/DME		117.550	122Y		HUL	504458N 043930E	40/250	40/250	250	17	37					
								TRD 504458N 043930E										
	122	VOR/DME		115.700	104X		GSY	502714N 042629E	30/260	30/260	260	15	29	Real Power = 37dBW To be decrease				
								TRD 502714N 042629E										
	112	VOR/DME		114.600	93X		BUB	505408N 043217E	100/500	100/500	500	17	37					
								TRD 505408N 043217E										
	BRUNO	VOR/DME		110.600	43X		BUN	510707N 045032E	40/260	40/260	260	17	29	Real Power=34dBW - To be decrease				
								TRD 510707N 045032E										
	121	ILS/DME	24	110.900	46X		IGC	502745N 042800E	66	25/62.5	25/100		100	29				
								TRD 502745N 042800E										
	5150	ILS/DME	7	110.900	46X		LIU	TRD 502803N 042846E	245	25/62.5	25/100		100	29	Planned opposite RWY			

COM3- List of national and international assignments in country order

CTY	Location	SAFIRE Ref	Service	Rwy Designator	VHF Channel	DME Channel	MLS Channel	Id	Co-ordinates	TRD	VHFDOC	DMEDOC	MLSDOC	MaxFL	VHF EIRP	DME EIRP	Remarks	
BIH	MOSTAR	6544	ILS/DME	33	108.100	18X		MOS	TRD 431624N 175117E 431624N 175118E	158	25/62.5	25/150		150		29		
	SARAJEVO	5403	VOR/DME		116.700	114X		KEB	@435692N 182659E			150/500	150/500		500	17	37	
		6321	VOR/DME		116.000	107X		KIS	Alt=1541 440106N 180347E			25/500	25/500		500	17	24	
		5428	ILS/DME		110.700	44X		BHS	TRD 434906N 182052E 434906N 181919E	297	25/62.5	25/100			100		29	
	SARAJEVO/SARAJEVO DERVENTA TUZLA/DUBRAVE	5427	VOR/DME	12	112.400	71X		DER	445903N 175810E			80/500	80/500		500	20	32	
		5070	VOR/DME		108.800	25X		TZU	442724N 184408E			50/500	80/500		500	20	30	
	OMARSKA	6545	ILS/DME	9	110.100	38X		TLA	TRD 442726N 184435E 442731N 182425E	276	25/62.5	25/150			150		29	
		4440	VOR/DME		117.900	126X		OMA	445729N 164818E			80/500	80/500		500	17	37	
	BLR	BANJA LUKA/MAHOVLJANI BREST	4381	ILS/DME	17	108.700	24X		BAL	TRD 445540N 171804E 445700N 171748E	350	25/62.5	25/100		100		29	
			6533	VOR/DME		113.750	84Y		BRT	520634N 235316E			80/500	80/500		500	23	37
HOMIEL		6757	ILS	29	110.300			IBY	TRD 520612N 235431E 520612N 235431E	113	25/62.5						62	
		6746	VOR/DME		113.100	78X		GOL	523201N 305950E			100/500	100/500		500	23	37	
HRODNA		6759	ILS	28	108.700			IMV	TRD 523158N 305932E 523131N 310152E	110	25/62.5				62			
		6760	ILS	10	109.300			IGM	TRD 523154N 310016E 523154N 310016E	290	25/62.5				62			
MAHILIOU		6747	VOR/DME		115.750	104Y		GRD	533628N 240321E			80/500	80/500		500	23	37	
		6758	ILS	17	109.500			IGP	TRD 533618N 240318E 533637N 240321E	358	25/62.5				62			
PINSK VICIEBSK		6740	ILS	13	111.100			IUF	TRD 535628N 300702E 535739N 300456E	316	25/62.5				62			
		6742	VOR/DME		115.750	114Y		MCL	535713N 300454E			80/500	80/500		500	23	37	
	6718	VOR/DME		113.600	83X		MNS	535304N 280114E			100/500	100/500		500	21	34		
	6738	ILS	13	108.900			IVX	TRD 535151N 280329E 535300N 280049E	318	25/62.5				62				
	6739	ILS	31	109.700			IGH	TRD 535408N 280010E 535217N 280237E	138	25/62.5				62				
	51526	ILS/DME	31R	110.100	38X		IMN	TRD @535441N 280126E 535259N 280407E Alt=206	139	25/62.5	25/100			100	8	29		
	51525	ILS/DME	13L	110.700	44X		IMDL	TRD @535238N 280429E 535414N	319	25/62.5	25/100			100	8	29		
	56086	GBAS		115.400			LKSM	280216E Alt=204,196			23/100			100		17		
	6748	VOR/DME		112.700	74X		VTB	530913N 280748E 560740N 302138E			100/500	100/500		500	23	37		
	HLYBOKAJE DASHKI ZVIAZDA KHATZEZHNYA RAVANI/CHSKAYA SLABAD/ MAZYR	6756	ILS	23	111.900			IJU	TRD 550707N 301928E 550747N 302156E	62	25/62.5				62			
6741		VOR/DME		114.750	94Y		GLB	550903N 274095E			80/500	80/500		500	23	37		
34808		DME			89Y		DSK	541445N 272850E			(blank)	50/200		200		32		
34807		DME			97Y		ZVD	533322N 280749E			(blank)	50/200		200		32		
34806		DME			101Y		KTZ	535454N 271652E			(blank)	50/200		200		32		
34805		DME			80Y		RVS	535454N 283442E			(blank)	50/200		200		32		
40145		DME			111Y		MZR	520214N 291130E			(blank)	80/500		500		37		
65887		VOR/DME		110.400	41X		ORS	542715N 302021E			100/500	100/500		500	23	37		
65886		ILS/DME	23	111.500	52X		IBS	TRD @642952N 301613E 542654N	60	25/62.5	25/100			100	8	29		
65885		ILS/DME	5	110.900	46X		IRS	TRD @542654N 301918E 542607N	240	25/62.5	25/100			100	8	29		
BUL	BEZMER	5302	ILS/DME	30	108.300	20X		IZR	TRD 422749N 261951E 422704N 262152E	120	25/62.5	25/100		100		29	MIL	
		5303	VOR		112.900			BEZ	422700N 262000E			40/250		250	15		MIL	
		5304	TAC			38X		BEZ	422700N 262000E (blank)			40/250		250			38	MIL
	BURGAS/SARAFOVO DOLNA/MITROPOLJA	6224	ILS/DME	22	110.300	40X		IBG	TRD 423326N 272954E 423440N 273138E	44	25/62.5	25/100		100		27		
		5742	TAC			113Y		DMT	432700N 243000E (blank)			70/450		450			38	MIL
	GRAF IGNATIEV	4983	ILS/DME	8	109.300	30X		IGY	TRD 421718N 244205E 421700N 244300E	260	25/62.5	25/100		100		29	MIL	
		4988	VOR/TAC		115.900	106X		GRY	40/250		40/250			250	17	29	MIL	
	KRUMOVO PLOVDIV	4985	TAC			109X		KMW	@420400N 245100E (blank)			60/250		250		40	MIL	
		5792	VOR/DME		114.900	96X		PDV	TRD 420312N 245238E 420436N 245009E			60/250	60/250		250	20	37	
	RUSE SOFIA	5793	ILS/DME	30	109.900	36X		IPD	TRD 420350N 245138E 433900N 255900E	127	25/62.5	25/100		100		27	DME PLANNED	
5495		VOR/DME		115.550	102Y		RUS	433900N 255900E			150/500	150/500		500	20	37	PLANNED/TEST	
SOFIA/VRAJDEBNA	5849	VOR/DME		112.600	73X		SOF	TRD 424153N 232322E 424142N 232363E			80/500	80/500		500	20	37		
	5848	ILS/DME	9	110.700	44X		ISL	TRD 424154N 232413E 424153N 232332E	275	25/62.5	25/100		100		27			
VARNA	6395	ILS/DME	27	109.500	32X		ISF	TRD 424147N 232609E 424135N 232609E	95	25/62.5	25/100		100		27			
	6398	VOR/DME		112.400	71X		WRN	@431352N Alt=90 @423355N 231724E			160/500	160/500		500	20	37		
KITOSHA KALOTINA	7153	DME			81Y		VIT	Alt=2270 (blank)			(blank)	200/500		500		37		
	7152	DME			92X		EJQ	425700N 232509E (blank)			(blank)	200/500		500		37	TEST	
ROZHEN EMONA VARBITZA	6979	DME			98Y		ROZ	Alt=1790 (blank)			(blank)	180/500		500		37		
	6978	DME			83Y		EMO	424511N 232515E (blank)			(blank)	200/500		500		37		
BURGAS ALL BULGARIA	6977	DME			92Y		VRB	TRD 425533N 264003E @423814N 273217E			(blank)	200/500		500		37		
	6225	VOR/DME		112.000	57X		BGS	423514N 273218E			190/500	190/500		500	20	37		
ALL BULGARIA GOLYAMA	6007	TAC			26Y		BTA	ALL BULGARIA/LAND (blank)			(blank)	70/450		450		38	MIL MOBILE	
	6203	TAC			107Y		BGT	ALL BULGARIA/LAND (blank)			(blank)	25/100		100		37	MIL	
	5794	VOR/DME		114.100	88X		GOL	430542N 241314E			100/500	100/500		500	20	37		

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CTY	Location	SAFIRE Ref.	Service	Rwy Designator	VHF Channel	DME Channel	MLS Channel	Id	Co-ordinates	TRD	VHFDOC	DMEDEC	MLSDOC	MaxFL	VHF EIRP	DME EIRP	Remarks		
	GORNA	4229	VOR/DME		113.600	83X		GRN	430911N 254243E Alt=81		200/500	200/500		500	20	37			
		62826	VOR/DME		115.550	102Y		GRN	430912N 254242E		200/500	200/500		500	20	37			
	BAILOVO	OSOGOVO BOGOSLOV PRIMORSKO ORELYAK ALABORUN DOBRUDZHA	180	VOR/DME		117.500	122X		BLO	@424002N 234850E Alt=920		125/500	125/500		500	20	37	AIP	
			64386	DME			117Y		BOG	421222N 223745E		(blank)	200/500		500			37	Planned
			64385	DME			123Y		PMS	421829N 274531E		(blank)	200/500		500			37	Planned
			64329	DME			119Y		ORL	413414N 233648E		(blank)	200/500		500			37	Planned
			64328	DME			55Y		ALA	414619N 230351E		(blank)	200/500		500			37	Planned
			64325	DME			120Y		DBD	433538N 281805E		(blank)	200/500		500			37	Planned
			6223	ILS/DME	9	109.900	36X		IWN	TRD 431349N 275039E 431403N 274847E	277	25/62.5	25/100		100			27	
			9050	TAC			26Y			ALL CANARY(ALLCNR)	(blank)	40/250		250				40	MIL
9049	TAC			34X			ALL CANARY(ALLCNR)	(blank)	40/250		250				40	MIL			
9048	TAC			54X			ALL CANARY(ALLCNR)	(blank)	40/250		250				40	MIL			
9047	TAC			112Y			ALL CANARY(ALLCNR)	(blank)	40/250		250				40	MIL			
9046	VOR/DME			108X			ALL CANARY(ALLCNR)	60/250	60/250		250		20	37	MOBILE EQUIPMENT				
	LANZAROTE	9045	TAC		116.100	94X		TLZ	285641N 132625W		(blank)	200/500		500		40	MIL		
		9034	VOR/DME		114.400	91X		LTE	28654N 133605W		200/500	200/500		500	20	37			
	9033	ILS/DME	3	109.100	28X		IRR	285619N 133637W		207	25/62.5	25/100		100		27			
				115.200	99X		LZR	290958N 133039W		200/500	200/500		500	20	37				
	TENERIFE SUR	9044	ILS/DME	8	109.700	34X		ITS	TRD 280303N 163316W 280222N 163501W	249	25/62.5	25/100		100		29			
		9043	VOR/DME		116.400	111X		TFS	280069N 161167W		200/500	200/500		500	20	37			
	TENERIFE NORTE	9042	ILS/DME	26	110.900	46X		ISUR	280252N 163337W	69	25/62.5	25/100		100		29			
		9041	VOR/DME		117.700	124X		TFN	283213N 161608W		200/500	200/500		500	20	37			
		LA PALMA	9038	ILS/DME	12	108.700	24X		INOR	TRD 282999N 162116W 282999N 161579W	291	25/62.5	25/100		100		29		
			9037	DME			71X		EV	283689N 174024W		(blank)	160/500		500		37		
LA GOMERA		9036	VOR/DME		116.000	107X		LGM	280144N 171254W		200/500	200/500		500	20	37			
		9035	DME			79X		HR	274858N 175311W		(blank)	200/500		500		37			
EL HIERRO		9032	TAC			103X		TGN	TRD 275524N 152322W 275519N 152336W		(blank)	200/500		500		40	MIL		
		9031	ILS/DME	21R	110.700	44X		RLP	275632N 152251W	21	25/62.5	25/100		100		29			
GRAN CANARIA		9030	VOR/DME		115.000	97X		LPC	274943N 152556W		200/500	200/500		500	20	37			
		9029	ILS/DME	03L	109.900	36X		ILP	TRD 275649N 152248W 275519N 152322W	201	25/62.5	25/100		100		29			
FUERTEVENTURA		9028	VOR/DME		112.900	76X		GDV	280437N 152644W		200/500	200/500		500	20	37			
		9027	VOR/DME		114.100	88X		FTV	282551N 135152W		200/500	200/500		500	20	37			
	32028	DME	19	111.300	50X		IFA	TRD 282755N 135148W 282659N 135147W	182	25/62.5	25/100		100		29				
				117X		FUE	282724N 135146W 282227N 131135W	2	25/62.5	25/100		500		27					
	AKROTIRI	210	ILS	28	109.700			IAK	TRD 343543N 325820E 343519N 325987E	100	25/62.5			62					
		212	TAC			107X		AKR	343401N 325701E		(blank)	200/500		500		40			
	LARNACA	213	ILS/DME	22	110.300	40X		ILC	TRD 345138N 333629E 345222N 333732E	45	25/62.5	50/100		100		29			
		215	VOR/DME		112.800	75X		LCA	344324N 322805E		200/500	200/500		500	20	37			
	PAPHOS	220	ILS/DME	29	108.900	26X		IPA	TRD 344250N 322942E 344242N 323021E	110	25/62.5	50/100		100		29			
		222	VOR/DME		117.900	126X		PHA	490912N 164015E		200/500	200/500		500	17	37			
	BRNO	226	ILS/DME	27	111.500	52X		BO	490855N 164227E	97	25/62.5	25/100		108	14	27			
		31386	VOR/DME		114.450	91Y		BNO	490900N 164133E		80/500	80/500		500	20	37			
61805		TAC			17X		UAT	490859N 164057E		(blank)	80/195		195			13	TST FIS-B Temporary till December 2020		
71345	GBAS		116.300			BRO	491010N 164030E		23/100			100	17		TESTING GBAS				
CASLAV	4327	ILS/DME	31	111.750	54Y		CF	TRD 495659N 152203E 495579N 152323E	137	25/62.5	25/100		110	14	27	MIL			
	4638	ILS/DME	29	111.550	52Y		KVY	TRD 501204N 125533E 500658N 143140E	113	25/62.5	25/50		82	14	27				
KARLOVY VARY	4328	ILS/DME	24	108.350	20Y		KD	500724N 143132E	62	25/62.5	25/100		109	14	27	MIL			
	4781	ILS/DME	31	111.350	50Y		LA	TRD 491031N 160607E 490936N 160800E	130	25/62.5	25/100		115	14	27	MIL			
OSTRAVA	239	ILS/DME	22	110.950	46Y		OSV	TRD 494056N 180517E 494216N 180736E	46	25/62.5	25/100		108	14	27				
	5444	VOR/DME		117.450	121Y		OTA	494151N 180635E		100/500	100/500		500	20	37				
PARDUBICE	4329	ILS/DME	27	109.350	30Y		PK	TRD 500051N 154300E 500043N 154507E	93	25/62.5	25/100		108	14	27	CIVIL/MILITARY			
	71786	TAC			17X		UAT	500058N 154423E		(blank)	80/195		195			13	TST FIS-B Temporary till July 2021		
PRAHA/RUZYNE	243	ILS/DME	30	109.500	32X		PG	TRD 500638N 141428E 500538N 141634E	127	25/62.5	25/100		112	14	27				
	249	VOR/DME		112.600	73X		OKL	500545N 141556E		100/500	100/500		500	20	37				
PREROV	4240	ILS/DME	24	109.100	28X		PR	TRD 500601N 141316E 500656N 141609E	65	25/62.5	25/100		112	14	27				
	4702	ILS/DME	6	111.150	48Y		PH	TRD 500738N 141642E 500615N 141349E	245	25/62.5	25/100		112	14	27				
	5446	ILS/DME	24L	111.900	56X		PW	TRD 500600N 141400E	65	25/62.5	25/100		100			27	RESERVED FOR A NEW RWY 24 L		
	5481	ILS/DME	12	109.950	38Y		PA	TRD 500520N 141706E 500620N 141452E	307	25/62.5	25/100		112	14	27				
5533	ILS/DME	06R	110.550	42Y		PU	TRD 500600N 141400E	245	25/62.5	25/100		100			27	RESERVED FOR A NEW RWY 06 R			
PREROV	4845	ILS/DME	6	110.150	38Y		CK	TRD 492555N 172531E 492525N 172331E	246	25/62.5	25/100		107	14	27	MIL			

COM3- List of national and international assignments in country order

CTY	Location	SAFIRE Ref	Service	Rwy Designator	VHF Channel	DME Channel	MLS Channel	Id	Co-ordinates	TRD	VHFDOC	DMEDOC	MLSDOC	MaxFL	VHF EIRP	DME EIRP	Remarks
	ALL CZECH REPUBLIC	223	VOR/DME		114.950	96Y			ALL CZECH REPUBLIC(LAND)		60/500	60/500		500	17	36	FLIGHT TEST
		6214	TAC				34X		ALL CZECH REPUBLIC(LAND)		(blank)	40/500		500			40 NATO
		6216	TAC				26Y		ALL CZECH REPUBLIC(LAND)		(blank)	40/500		500			40 NATO
		6217	TAC				112Y		ALL CZECH REPUBLIC(LAND)		(blank)	40/500		500			40 NATO
	NERATOVICE	30606	VOR/DME		112.250		50Y	NER	502200N 143717E		80/500	80/500		500	20	37	
	REVNICOV	5780	DME				93Y	RVC	501113N 134730E		(blank)	90/500		500			37
	PISEK	5443	DME				123X	PSK	494706N 140205E		(blank)	100/500		500			37
	VOZICE	31385	VOR/DME		116.950		116Y	VOZ	493156N 145229E		80/500	80/500		500	17	37	
	VLASIM	251	VOR/DME		114.300		90X	VLM	@94215N 150400E		80/250	80/250		250			37
	FRYDLANT	230	VOR/DME		114.850		95Y	OKX	@505410N 150155E		80/500	80/500		500	17	37	
	DEDNA	229	VOR/DME		113.150		78Y	OKF	485809N 153244E		80/500	80/500		500	17	37	
	CHEB	228	VOR/DME		115.700		104X	OKG	@500355N 122421E		80/500	80/500		500	20	37	
	CESKE BUDEJOVICE	31847	ILS/DME	27	110.500		42X	BW	485643N 142613E	89	25/62.5	25/100		100	14	27	
									TRD 501312N 142233E								
D	ALTENBURG	4330	ILS/DME	28	110.750		44Y	VO	501258N 142431E	105	25/62.5	25/100		111	14	27	
		3565	DME				100X	AGD	505858N 123044E		(blank)	25/100		100			27
		5376	ILS	22	108.700			IALW	505912N 123037E	40	25/62.5			62			
	AUGSBURG	276	ILS	25	108.500			IAGW	TRD 482922N 105513E	72	25/62.5			62			ID-CHANGE
		279	DME				106X	AUG	482830N 105518E		(blank)	25/100		100			27
	BERLIN/SCHONEFELD	295	DME				91X	SDD	522228N 133013E		(blank)	25/100		100			28
	BERLIN/TEGEL	296	ILS	08R	108.500			ITGE	TRD 523338N 131853E	261	25/62.5			62			
									TRD 523346N 131858E								
		297	ILS/DME	08L	109.100		28X	ITLE	523400N 131900E	261	25/62.5	25/100		100			27
									TRD 523322N 131811E								
		298	ILS/DME	26L	109.300		30X	ITGW	523300N 131808E	81	25/62.5	25/100		100			27
									523300N 131600E								
		300	ILS/DME	26R	110.100		38X	ITLW	TRD 523326N 131542E	81	25/62.5	25/100		100			27
									523345N 131818E								
		4169	VOR/DME		112.300		70X	TGL	523341N 131715E		100/500	100/500		500	23	39	
	BRAUNSCHWEIG	6861	ILS/DME	26	111.100		48X	BWG	TRD 521905N 103215E	85	25/62.5	25/100		100			29
		71105	GBAS		112.950			TST	521900N 103000E Alt=95		23/100			100	19		Testing Facility   SLOTS: A+B  RPDS&RSDS 21- 28
		70747	ILS/DME	17	109.750		34Y	TST	TRD 521900N 103300E					62	17		20 TEST
									Alt=95	345	25/62.5	30/50		62			
	BREMEN	4580	ILS	9	110.300			IBRE	TRD 530251N 084646E	268	25/62.5			62			
		4581	ILS	27	110.900			IBRW	TRD 530247N 084601E	88	25/62.5			62			
		6143	VOR/DME		117.450		121Y	BMN	530246N 084538E	60/500	60/500			500	23	37	
		6897	GBAS		116.650			EDDW	530200N 084600E		25/100			100	19		SLOTS A-H, RPDS/RSDS 0-20; RPI: G09A, G09D, G27B, G27E
	BUCHTEL	7182	DME				83Y	BND	530239N 084656E		(blank)	25/100		100			27
		344	TAC				118X	BUE	501643N 070410E		(blank)	50/300		300			40 MIL
		29773	ILS/DME	21	110.350		40Y	IBUE	TRD 070407E Alt=474,475	29	25/62.5	25/100		100			29 MIL
									TRD 521635N 090400E								
	BUCKEBURG	6073	ILS	26	111.550			IBBW	521643N 090532E	78	25/62.5			62			MIL
									TRD 515109N 112335E								
	COCHSTEDT	4726	ILS	26	108.750			ICOW	515122N 112554E	77	25/62.5			62			
		4728	DME				80Y	COD	515114N 112524E		(blank)	25/100		100			27
									TRD 510948N 134703E								
	DRESDEN	3325	ILS	4	110.500			IDRE	510739N 134552E	221	25/62.5			62			
		3339	VOR/DME		114.350		90Y	DRN	510056N 133556E		80/500	80/500		500	23	39	
		28505	ILS/DME	22	109.750		34Y	IDRW	TRD 510721N 134507E	41	25/62.5	25/100		100			29
									510627N 134629E								
	ERFURT	385	ILS	28	109.900			IERW	TRD 505849N 105512E	97	25/62.5			62			
		3406	ILS	10	108.300			IERE	TRD 505841N 105848E	277	25/62.5			62			
		4190	VOR/DME		113.850		85Y	ERF	505955N 105637E		40/250	40/250		100	23	38	
		4446	DME				57Y	EFD	505557N 105728E		(blank)	25/100		100			28
									TRD 505841N 105848E								
		51768	ILS/DME	10	109.100		28X	IERE	505955N 105637E	277	25/62.5	25/100		100			29
									TRD 474030N 093138E								
	FRIEDRICHSHAFEN	421	ILS	6	111.900			IFHE	474003N 093018E	240	25/62.5			62			
									TRD 473955N 092945E								
		422	ILS	24	111.900			IFHW	474030N 093104E	60	25/62.5			62			
		423	DME				73X	FHD	474030N 093018E		(blank)	25/100		100			27
		58505	TAC				17X	UAT	474007N 093048E		(blank)	40/250		250			40 TST
	FURSTENFELDBRUCK	427	TAC				17X	FFB	@481300N 110900E		(blank)	50/250		250			40 MIL
	FURSTENWALDE	3558	VOR/DME		113.300		80X	FWE	522441N 140750E		60/500	60/500		500	23	37	
	GEILENKIRCHEN	4860	TAC				18X	GIX	505748N 060243E		(blank)	80/500		500			37 MIL
		6201	ILS/DME	27	110.100		38X	IGEW	TRD 505740N 061000E	91	25/62.5	25/100		100			34 MIL
		61706	TAC				108Y	GIX	505800N 060100E		(blank)	80/500		500			37 MIL
									TRD 489543N 071439E								
	HAHN	445	ILS	21	111.300			IHAW	489523N 071610E	32	25/62.5			62			
		3563	ILS	3	109.300			IHAE	TRD 495745N 071639E	212	25/62.5			62			
		4154	VOR/TAC		113.100		78X	HAM	495611N 071459E		100/500	100/500		500	23	40	
	HAMBURG								@534108N 101218E								

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HAMBURG/HAMBURG		453	ILS	33	109.900			IHHN	TRD 533926N 095822E 534000N 095809E	153	25/62.5				62		
		4365	ILS	5	110.500			IHHE	TRD 533819N 100171E 533716N 095620E	230	25/62.5				62		
		4366	ILS	23	111.500			IHHW	TRD 533657N 095732E 533907N 095939E	50	25/62.5				62		
HAMM HANNOVER		51725	ILS/DME	15	109.550	32Y		IHHS	TRD 533905N 095833E @515125N 074230E	333	25/62.5	25/100		100	23	29	
		462	VOR/DME		115.650	103Y		HMM	60/500 522908N 094444E	60/500		25/100		100	28		
		4779	DME			86Y		HAD	522719N 093933E	(blank)		25/100		100	28		
HANNOVER/HANNOVER		5690	DME			116X		HBD	TRD 522800N 094225E 522811N 093927E	272	25/62.5			100		29	
		466	ILS	09L	108.300			IHNE	TRD 522714N 094257E 522714N 094054E	272	25/62.5	25/100		100	29		
		467	ILS/DME	09R	108.700	24X		IHSE	TRD 522806N 093843E 522807N 094144E	92	25/62.5			100		29	
HANNOVER/HANNOVER		468	ILS	27R	108.900			IHNW	TRD 522718N 094023E 522711N 094224E	92	25/62.5			100		28	
		470	ILS	27L	109.500			IHSW	TRD 522718N 094018E 522711N 094224E	92	25/62.5			100		28	
		55145	ILS/DME	27L	109.950	36Y		IHSW	Alt=62.60 @541108N 075439E	93	25/62.5	25/100		100	26	29	WILL REPLACE 3D470 AFTER SUCCESSFUL IMPLEMENTATION
HELGOLAND		476	VOR/DME		116.300	110X		DHE	TRD 535268N 140751E 535232N 140948E	200/500	200/500			500		38	
		477	ILS/DME	28	111.300	50X		IHEW	535241N 140904E	106	25/62.5	25/100		100		29	
		4310	TAC			79Y		TST	514600N 131200E	(blank)		30/20		20		23	MIL, TRAINING + MAINTENANCE, GROUND TEST ONLY
HERINGSORF HOLDZORF		4577	TAC			119Y		HOZ	514600N 131151E	(blank)	90/500			500		40	MIL
		6221	ILS/DME	27	111.700	54X		IHDW	TRD 514608N 130834E 514559N 131048E	93	25/62.5	25/100		100		34	MIL
		492	TAC			51X		IGL	@484305N 113411E	(blank)	60/500			500		40	MIL
INGOLSTADT		6076	ILS	25L	108.100			IGW	TRD 484243N 113309E 484649N 080519E	68	25/62.5			62			MIL
		4212	DME				105X	KBD	484649N 080519E	(blank)	40/250			250		39	
		4213	ILS	21	108.750			KBW	TRD 484558N 080405E 484714N 080309E	32	25/62.5			62			
KARLSRUHE/BADEN		5052	ILS	3	109.950			KBEB	TRD 484734N 080535E 484622N 080421E	212	25/62.5			62			
		4453	ILS/DME	24	109.100	28X		IKOW	TRD @505132N 070712S 050501N	64	25/62.5	25/100		100		27	
		4455	ILS	14L	110.900			IKES	TRD 505246N 070802E 505246N 070802E	318	25/62.5			62			
LAAGE		3561	ILS	27	108.300			ILAW	TRD 535514N 121452E 535456N 121740E	98	25/62.5			62			
		4194	ILS	9	108.550			ILAE	TRD 535456N 121644E 535505N 121553E	278	25/62.5			62			
		4578	TAC			19Y		LAG	535512N 121711E	(blank)	80/500			500		40	MIL
LAHR		4999	TAC			79Y		TST	535500N 121600E	(blank)	30/20			20		23	MIL, TRAINING + MAINTENANCE, GROUND TEST ONLY
		4192	DME			17Y		LRD	482151N 074939E	(blank)	25/100			100		27	AD2 EDTL 1-6
		4197	ILS	21	109.700			ILRW	TRD 482241N 075012E 481126N 105132E	28	25/62.5			62			AD 2 EDTL 1-6
LECHFELD		531	TAC			25X		LCH	481126N 105132E	(blank)	40/300			300		40	MIL
		4181	TAC			79Y		TST	480900N 105100E	(blank)	30/20			20		23	MIL, TRAINING + MAINTENANCE, GROUND TEST ONLY
		3408	VOR/DME		110.450	41Y		MAG	515942N 114740E	80/500	80/500			500	26	39	
MAGDEBURG		6954	GBAS		116.550			ETSI	484300N 113200E	20/100				100	19		SLOTS A-H RPD5/RSD5 0-20
		4161	DME			72X		MHD	511406N 062931E	(blank)	25/100			100		27	
		4162	ILS	13	108.850			IMGE	TRD 511331N 063032E 511400N 063005E	309	25/62.5			62			
MONCHENGLADBACH		4186	VOR		109.800			MHV	511414N 062925E	40/150				150	20		
		4825	ILS	31	110.550			IMGW	TRD 511408N 062938E 511346N 063033E	129	25/62.5			62			
		4170	VOR/DME		112.300	70X		MUN	481045N 114858E	80/500	80/500			500	23	39	
MUNCHEN		5748	DME			107X		DMN	482201N 114738E	(blank)	25/100			100		28	
		6134	ILS/DME	26L	108.300	20X		IMSW	TRD 482023N 114415E 482034N 114802E	83	25/62.5	25/100		100		29	GP 15NM
		6135	ILS/DME	26R	108.700	24X		IMNW	TRD 482142N 114515E 482205N 114859E	83	25/62.5	25/100		100		29	GP 15NM
MANCHING		6136	DME			97X		DMS	TRD 482026N 114641E 482203N 114843E	(blank)	25/100			100		28	
		6780	ILS/DME	08L	109.500	32X		IMNE	TRD 482203N 114843E 482153N 114619E	263	25/62.5	25/100		100		29	
		6781	ILS/DME	08R	109.300	30X		IMSE	TRD 482045N 114905E 482022N 114521E	263	25/62.5	25/100		100		29	
MUNSTER/OSNABRUCK		6930	GBAS		114.250			EDDM	482031N 114804E	46/100				115	19		SLOTS A-H, RSD5/RPD5 0-20; RPI G08A-G08M (13) and G26A-G26M (13)
		7128	DME			105Y		MNT	482200N 114905E	(blank)	25/100			100		27	
		4457	DME			87Y		MOD	520817N 074114E	(blank)	25/100			100		28	
NEUBRANDENBURG NEUBURG		6855	ILS/DME	25	110.100	38X		IMOW	TRD 520750N 073954E 520815N 074131E	71	25/62.5	25/100		100		29	
		6856	ILS/DME	7	111.750	54Y		IMOE	TRD 520815N 074209E 520801N 074028E	251	25/62.5	25/100		100		29	
		681	TAC			17Y		NEG	533600N 131900E	(blank)	50/300			300		40	MIL
NIEDERRHEIN		597	TAC			26X		NEU	484245N 111239E	(blank)	40/250			250		40	MIL
		29269	ILS/DME	27	109.350	30Y		INEU	TRD 511127E 484243N 513611N 060706E	90	25/62.5	25/100		100		29	MIL
		5153	ILS	27	110.700			INIW	513612N 060930E	92	25/62.5			62			
NIEDERSTETTEN		5254	TAC			102X		IND	513608N 063913E	(blank)	40/200			200		27	MIL (US)
		6874	DME			24X		NDD	482336N 095739E	(blank)	25/100			100		27	MIL
		6994	ILS	25	108.900			INSW	TRD 492323N 095649E 492337N 095739E	75	25/62.5			62			MIL
NORDHOLZ		5689	TAC			118X		NDO	@534608N 083913E	(blank)	180/500			500		40	MIL
		6072	ILS	26	111.750			INOW	TRD 534608N 083913E 534606N 084023E	78	25/62.5			62			





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	FRANKFURT/MAIN	6909	ILS/DME	25R	111.350	50Y		IFNW	TRD 500209N 082929E 500248N 083142E 500248N 083142E	70	25/62.5	25/100		100		30 GP 15NM	
		6910	ILS/DME	07L	111.750	54Y		IFNE	500220N 083001E	250	25/62.5	25/100		100		30 GP 15NM	
		6929	GBAS		116.550			QLSF	500200N 083450E		40/100			100	19	SLOTS A-H RPDS/RSDS 0-20	
		7166	GBAS		116.425			EDDF	500136N 083115E		40/100			100	19	SLOTS: A-Z, RPDS & RSDS: 0-486, RPI: G25A - G25Z (26) & G07A - G07Z (26), Autoland, Expanded Service Volume	
	WUNSTORF	4215	TAC			79Y		TST	522800N 092600E		(blank)	40/20		20		23 MIL, TRAINING + MAINTENANCE, GROUND TEST ONLY	
		4576	TAC			95Y		WUN	522717N 092546E		(blank)	80/500		500		40 MIL	
		6851	ILS/DME	8	110.550	42Y		IWUE	TRD 522734N 092704E 522728N 092514E	262	25/62.5	25/100		100		29 MIL	
		6905	ILS/DME	26	109.700	34X		IWUW	TRD 522721N 092437E 522727N 092629E	82	25/62.5	25/100		100		29 MIL	
		70705	GBAS		112.550			TST	522759N 092540E		20/100			100	19	SLOTS A-H RPDS/RSDS 0-20	
	WIESBADEN	689	TAC			88X		WIB	500248N 081839E		(blank)	40/250		250		31 MIL (US)	
		5343	ILS/DME	25	108.500	22X		ITOU	TRD 500249N 081835E 500303N 082009E 500251N 081834E	73	25/62.5	25/100		100		29 MIL (US)	
		5343	ILS/DME	25	108.500	22X		ITOU	TRD 545516N 081952E 545424N 082104E	73	25/62.5	25/100		100		29 MIL (US)	
	WESTERLAND KOLN-BONN	688	ILS/DME	32	111.500	52X		IWES	545438N 082023E	144	25/62.5	25/100		100		27	
		5002	VOR/DME		112.150	58Y		KBO	505142N 070844E		25/200	40/200		200	23	39	
		6826	ILS/DME	32R	111.100	48X		IKEN	TRD 505304N 070734E 505132N 070950E	138	25/62.5	25/100		103		29	
		69065	DME			53Y		KID	505145N 070844E AII=82		(blank)	25/150		150		39 INTERIM (DURING MODERNISATION OF 3D5002)	
		682	VOR/DME		112.800	75X		WLD	@483448N 110746E		80/500	80/500		500	23	39	
	TRENT	680	VOR/DME		108.450	21Y		TRT	543040N 131456E		100/500	100/500		500	23	38	
	TAUNUS	60865	VOR/DME		113.350	80Y		TAU	501502N 080945E		60/250	60/250		250	23	37	
		678	VOR/TAC		112.500	72X		TCO	@483700N 091600E		80/500	80/500		500	26	40	
	TANGO/STUTTGART SULZ	677	VOR		116.100			SUL	483700N 091600E 482254N 083841E		60/250			250	26	26	
		655	ILS	31	108.900			ISIW	TRD 504248N 080418E 504215N 080513E	128	25/62.5			62		27	
	SIEGERLAND	4193	DME			17Y		SLD	504224N 083133E		(blank)	25/100		100		27	
	SCHLESWIG	648	TAC			55X		SWG	542748N 093100E		(blank)	80/500		500		40 MIL	
		639	VOR/DME		112.200	59X		RID	@494654N 083229E 494654N 083230E		60/250	60/250		250	23	39	
	RIED	6290	TAC			27X		REB	521700N 072300E		(blank)	65/500		500		40 MIL	
	RHEIN/BEITLAGE	628	ILS	6	111.700			IPLE	513700N 083800E		25/62.5			62		to be deleted 2013	
	FADEBORN/LIPPSTADT OSNABRUCK	624	VOR		114.300			OSN	@521200N 081708E		80/500			500	23	40 MIL	
		3326	TAC			20Y		OSB	521200N 081708E		(blank)	50/300		300		40 MIL	
	MAISACH	6171	VOR/DME		115.200	99X		MAH	461548N 111643E		60/500	60/500		500	23	38	
	HOHN	4425	TAC			100X		HNT	541839N 083219E		(blank)	30/300		300		40 MIL	
		6074	ILS	26	108.900			IMHW	TRD 541834N 093047E 541845N 093307E	79	25/62.5			62		27	
	NOERDLINGEN	604	VOR/DME		117.550	122Y		NDG	485000N 102500E		60/500	60/500		500	20	37	
	DRESDEN-WAX	6029	DME			101X		DND	510748N 124527E		(blank)	25/100		100		28	
	NIENBURG	602	VOR		116.500			NIE	523733N 092219E		40/250			250	26	26	
		5364	ILS	5	110.700			IHFE	TRD 533237N 095110E 533146N 094933E	232	25/62.5			62		27	
	FINKENWERDER	5999	ILS/DME	23	108.500	22X		IHFV	TRD 533127N 094842E 533211N 095027E	52	25/62.5	25/100		100		27	
		3341	VOR/DME		115.850	105Y		LEG	512610N 122825E 512610N 122824E		100/500	100/500		500	23	39	
	LEIPZIG	4297	ILS/DME	26R	108.350	20Y		ILNW	TRD @512652N 121238E 512605N	86	25/62.5	25/100		100		29	
		4298	ILS/DME	08L	108.550	22Y		ILNE	TRD @512602N 121622E 512558N	266	25/62.5	25/100		100		29	
		5890	ILS	08R	111.750			ILSR	TRD 512452N 121551E 512447N 121231E	266	25/62.5			62		27	
		5891	ILS	26L	110.300			ILSL	TRD 512440N 121148E 512453N 121503E	86	25/62.5			62		27	
	LEIPZIG/SCHKEUDITZ	5888	DME			82X		LND	512604N 121333E		(blank)	25/100		100		28	
		5889	ILS			59Y		LLD	512454N 121340E		(blank)	25/100		100		28	
	FRANKFURT-FRED	5853	DME			106X		FRD	500147N 083406E		(blank)	25/100		100		28	
	ALL GERMANY	258	TAC			18X			ALL GERMANY(LAND)		(blank)	100/100		100		40	
		259	TAC			20Y			ALL GERMANY(LAND)		(blank)	40/250		250		40	
		260	TAC			34X			ALL GERMANY(LAND)		(blank)	40/250		250		40	
		261	TAC			39Y			ALL GERMANY(LAND)		(blank)	150/500		500		40	
		262	TAC			40X			ALL GERMANY(LAND)		(blank)	40/250		250		40	
		263	TAC			46Y			ALL GERMANY(LAND)		(blank)	20/100		100		40	
		264	TAC			50Y			ALL GERMANY(LAND)		(blank)	20/100		100		40	
		265	TAC			54X			ALL GERMANY(LAND)		(blank)	40/250		250		40	
		267	VOR/TAC		116.350	110Y			ALL GERMANY(LAND)		100/500	100/500		500	23	40 MOBILE	
		268	TAC			112X			ALL GERMANY(LAND)		(blank)	40/250		250		40 MOBILE	
		269	TAC			112Y			ALL GERMANY(LAND)		(blank)	40/250		250		40 NOT USABLE IN A ZONE OF 46NM FROM BELGIAN BOUNDARY	
		3555	VOR/DME		116.150	108Y			ALL GERMANY(LAND)		40/250	40/250		250	23	39 MOBILE	
		3556	MLS/DME			108Y			ALL GERMANY(LAND)		(blank)	23/100		100		27 MOBILE	
		3557	MLS			606			ALL GERMANY(LAND)		(blank)	23/100		100		27 MOBILE	
		4419	VOR		117.950			TST	ALL GERMANY(LAND)		25/100			100	19	TEST + NIS (DGSS)	
		4420	VOR		108.000			TST	ALL GERMANY(LAND)		25/100			100	19	TEST + NIS (DGSS)	
		4421	VOR		108.200			TST	ALL GERMANY(LAND)		25/100			100	19	TEST + NIS (DGSS)	
		4525	ILS		111.950				ALL GERMANY(LAND)(*)		25/62.5			62		TEST - NOT USABLE ZITHIN 105 NM TO ILS AMSTERDAM	
		5741	VOR/TAC		116.050	107Y		LAND	ALL GERMANY(LAND)		100/500	100/500		500	23	MOBILE AND TEST OF NAV INSTALLATIONS	
	LUBURG/STUTTGART	553	VOR/DME		109.200	29X		LBU	@485447N 092025E TRD 534805N 104157E		60/500	60/500		500	26	39	
		548	ILS	25	111.700			ILUW	534829N 104337E	72	25/62.5			62		27	
	LUBECK	549	ILS/DME	7	109.350	30Y		ILUE	TRD 534830N 104406E 534816N 104228E 534823N 104307E	252	25/62.5	25/100		100		29	

COM3- List of national and international assignments in country order

CTY	Location	SAFIRE Ref	Service	Rwy Designator	VHF Channel	DME Channel	MLS Channel	Id	Co-ordinates	TRD	VHFDOC	DMEDOC	MLSDOC	MaxFL	VHF EIRP	DME EIRP	Remarks
	LUBECK	72196	VOR		110.600			LIB	535627N 104004E		65/500			500	17		
	LEINE	536	VOR/DME		115.200	99X		DLE	@821501N 095301E		80/500	80/500		500	23	39	
	RODING	5351	VOR/DME		114.700	94X		RDG	@490225N 123136E		80/500	80/500		500	23	41	
	KITZINGEN	512	VOR		111.400			KTG	484500N 101300E		25/100			100	17		MIL
	KIEL/HOLTENAU	507	ILS	8	109.500			IKHE	TRD 542245N 100858E 542240N 100829E	262	25/62.5			62			
		508	ILS	26	109.500			IKHW	TRD 542243N 100800E 542243N 100909E	82	25/62.5			62			
		510	DME			32X		KHD	542244N 100943E @474445N 102059E		(blank)	25/100		100			27
	KEMPTEN	502	VOR/DME		108.400	21X		KPT	Alt=754		80/500	80/500		500	23	39	
	MICHAELSDORF	5003	VOR		112.200			MIC	541820N 110019E @494791N 073639E		60/500			500	23		
	COLA/KOLN	5000	VOR/DME		108.800	25X		COL	Alt=282		60/250	60/250		259	23	39	
	KARLSRUHE	497	VOR/DME		115.950	106Y		KRH	485935N 083503E 485935N 083504E		60/500	60/500		500	26	39	
	DORTMUND	4828	VOR/DME		108.650	23Y		DOR	513132N 073752E TRD 513130N 073751E		25/150	25/150		150	24	27	
		4934	ILS	6	109.150			IDWE	513107N 073634E TRD 051304N	241	25/62.5			62			
		30146	ILS/DME	24	111.300	50X		IDWW	073553E 513118N	61	25/62.5	25/100		100			29 operational in 2016, old 3D358 will be deleted
	HERMSDORF	478	VOR/DME		108.650	23Y		HDO	505541N 142208E		60/500	80/500		500	23	37	
	HAMBURG/ALSTER	450	DME			105X		ALF	533807N 090539E		(blank)	25/100		100			28
	SAARBRUCKEN	4452	DME			114Y		SAD	481245N 092032E		(blank)	25/100		100			27
		57926	ILS/DME	27	111.100	48X		DSB	TRD 491300N 070600E	87	25/62.5	25/100		100			29
	MANNHEIM	4204	DME			82Y		MND	492814N 083058E TRD 492824N 083018E		(blank)	25/100		100			27
		4451	ILS	27	108.550			IMAW	492800N 083008E	93	25/62.5			62			
	GRAFENWOHR	439	TAC			55X		GRF	494129N 155618E		(blank)	40/250		250			40 MIL (US)
	NATTENHEIM	4367	VOR/TAC		115.300	100X		NTM	500057N 063154E		60/500	60/500		500	24	40	
	GEDERN	431	VOR/TAC		110.800	45X		GED	@502443N 091457E		80/500	80/500		500	23	40	
	FULDA	4291	VOR/DME		112.100	58X		FUL	503533N 093429E		100/500	100/500		500	23	39	
	FRIEDLAND	4289	VOR/DME		117.150	118Y		FLD	534546N 132817E		60/500	60/500		500	23	39	
	DIETHPOLZ	4214	ILS	26	109.100			IDIW	523500N 082000E 522148N 104743E		25/62.5			62			MIL
	HEHLINGEN	4211	VOR/DME		117.300	120X		HLZ	522148N 104744E		80/500	80/500		500	23	39	
	WESER	31546	DME			18Y		WSD	532831N 085232E		(blank)	60/500		500			37
	ERLANGEN	4188	VOR/DME		114.900	96X		ERL	493920N 110903E 530204N 113248E		60/500	60/500		500	23	39	
	BRUNKENDORF	4184	VOR/DME		117.700	124X		BKD	530204N 113247E		80/500	80/500		500	23	39	
	METRO	4177	VOR		110.000			MTR	501638N 080856E 511014N 075331E		60/250			250	25		
	GERMINGHAUSEN	4168	VOR/DME		115.400	101X		GMH	511014N 075332E		60/500	60/500		500	23	37	
	WARBURG	4155	VOR/DME		113.700	84X		WRB	513020N 090639E 525436N 100805E		80/500	80/500		500	23	39	
	LOWENBERG	4146	VOR/DME		114.550	92Y		LWB	525437N 130804E		80/500	80/500		500	23	39	
	DINKELSBUHL	353	VOR/TAC		117.800	125X		DKB	490834N 101418E		60/500	60/500		500	23	40	
	CHARLIE/FRANKFURT	348	VOR		115.500			CHA	495616N 090223E		60/500			500	17		
		59385	VOR/DME		115.350			CHA	495616N 090223E		60/250	60/250		250	23		39
	COLEMAN BARRACKS	3426	VOR		109.000			HDM	493400N 082600E		25/100			100	20		MIL (US)
	KLASDORF	3328	VOR/DME		115.150	98Y		KLF	520110N 133348E		60/500	60/500		500	23	39	
	GOTEM	3327	VOR/DME		115.250	99Y		GOT	512035N 113551E		60/500	60/500		500	23	39	
	BAYREUTH	283	VOR		110.600			BAY	@498907N 113612E @511940N 071037E		50/250			250	25		
	BARMEN	280	VOR/DME		114.000	87X		BAM	Alt=255 @511939N 071037E		60/500	60/500		500	23	38	
		65985	VOR/DME		114.000	87X		BAM	Alt=255 TRD @51324N		60/500	60/500		500	23		37 Will replace 3D280 after successful implementation (Q4/2020)
	WITTMUND	27743	ILS/DME	26	109.950	36Y		INTW	073838E 53326N	78	25/62.5	25/100		100			29
	DUESSELDORF	366	VOR/DME		115.150	98Y		DUS	511659N 064513E TRD @511655N		40/250	40/250		250	23	39	
		368	ILS/DME	23R	109.300	30X		IDNW	TRD @511640N TRD @511640N	53	25/62.5	25/100		100			30
		371	ILS/DME	23L	109.900	36X		IDSW	064454E 511737N 064437E 511737N TRD 511732N 064724E 511702N 064528E	53	25/62.5	25/100		101			29 Directional DME TRD-52
		372	ILS	05R	111.500			IDSE	Alt=42,37	233	25/62.5			64			
		28567	ILS/DME	05L	110.950	46Y		IDNE	TRD 511902N 064703E 511718N 084545E TRD 511752N 064724E 511702N 064528E 511702N 064628E	233	25/62.5	25/100		100			29 operational in 2014, old 3D369 will be deleted
		57286	ILS/DME	05R	110.150	38Y		IDSE	Alt=27,37,36	233	25/62.5	25/100		100			29
	LAUPHEIM	28606	TAC			19Y		LAU	481317N 055433E		(blank)	30/100		100			37 MIL
	FRANKFURT-HAHN	36945	DME			120Y		FHH	495630N 071538E		(blank)	25/100		100			27
	SARSTEDT	57765	VOR/DME		114.450	91Y		SAS	@521603N 095303E		80/500	80/500		500	23	38	
	STENDAL-BORSSTEL	65406	GBAS		112.850			TST	523800N 114952E Alt=55		01-05-2020			20	19		Testing GBAS: SLOTS A+B,RPDS/RSDS 0-5
	BRUCHSAL	65405	GBAS		112.850			TST	490802N 083400E		01-05-2020			20	19		Testing GBAS: SLOTS A+B,RPDS/RSDS 0-5
	MENGEN	62665	TAC			17X		UAT	480314N 092222E TRD 481101N 105100E		(blank)	40/250		250			40 TST
	UNTERMEITINGEN	61246	ILS/DME	29	109.750	34Y		TST	Alt=550	109	25/62.5	25/20		62	14		20 MIL, TRAINING + MAINTENANCE, GROUND TEST ONLY
	NAUHEIM	6937	VOR		113.750			VFM	495743N 082818E Alt=89 @494728N 083233E		01-10-1970			70	20		
	FRANKENSTEIN	62245	VOR/DME		117.500	122X		FKS	Alt=91		60/500	60/500		500	23		37 will replace 3D639 after successful implementation
									TRD 570549N 095301E 570542N 095013E								
DNK	AALBORG/AALBORG	710	ILS/DME	08L	109.900	36X		AE	570542N 095014E	263	25/62.5	25/100		100			27
		51425	ILS/DME	26R	111.550	52Y		YT	TRD 570536N 094939E 570550N 095217E	83	25/62.5	25/100		100	14	33	

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CTY	Location	SAFIRE Ref	Service	Rwy Designator	VHF Channel	DME Channel	MLS Channel	Id	Co-ordinates	TRD	VHFDOC	DMEDOC	MLSDOC	MaxFL	VHF EIRP	DME EIRP	Remarks		
DNK	AARHUS	723	ILS/DME	10R	111.900	56X		AAR	TRD 561802N 103851E 561814N 103604E	280	25/62.5	25/100		100		29			
		5548	ILS/DME	28L	111.100	48X		TR	TRD 561822N 103526E 561801N 103911E	100	25/62.5	25/100		100		27			
	BILLUND	728	ILS/DME	27	110.700	44X		LEL	554423N 091027E	87	25/62.5	25/100		100		26			
		729	ILS	9	111.700			BIL	554400N 091100E		25/62.5			100		62			
		39955	ILS/DME	9	110.300	40X		BIL	TRD 554400N 091100E	9	25/62.5	25/100		100		15			
		38365	ILS	9	110.300			BIL	TRD 554400N 091100E	91	25/62.5			100		62			
		40665	ILS/DME	9	109.750	34Y		BIL	TRD 554429N 091109E 554429N 090821E	267	25/62.5	25/100		100		20			
	BORNHOLM/ROENNE	770	ILS/DME	29	110.300	40X		IRE	TRD 550342N 144613E 550342N 144612E	114	25/62.5	25/100		100		27			
		4962	ILS/DME	11	109.350	30Y		IAR	TRD 550329N 144647E 550333N 144457E	294	25/62.5	25/100		100		27	RWY HDG 113.7 GEO		
		5549	ILS/DME	8	109.100	28X		OO	553124N 083218E	260	25/62.5	25/100		100		29			
	ESBJERG	6737	ILS/DME	26	110.150	38Y		ES	553143N 093406E	80	25/62.5	25/100		100		27			
		33525	DME			113X		ESE	553121N 083331E Alt-26 TRD 620407N 071650W		(blank)	180/500		500		30			
	FAROE ISLANDS/VAGAR	787	ILS/DME	12	109.100	28X		SF	620400N 071700W 620406N 071650W	298	25/62.5	25/100		100		27	LLZ Only		
		789	ILS/DME	30	110.300	40X		MF	TRD 620344N 071737W 620334N 071554W	118	25/62.5	25/100		100		27	LLZ Only		
	KARUP	738	ILS/DME	27L	108.150	18Y		KR	561747N 090715E	89	25/62.5	25/100		100		27			
		739	ILS/DME	09R	108.300	20X		KAP	TRD 561751N 090745E 561748N 090452E	269	25/62.5	25/100		100		29			
	KOBENHAVN/KAstrup	5819	TAC			37X		KAR	561748N 090031E		(blank)	200/500		500		40			
		743	ILS/DME	30	108.900	26X		OY	TRD 553740N 123745E 553651N 123943E	123	25/62.5	25/100		100		27			
		744	ILS/DME	04R	109.300	30X		NE	TRD 553617N 123816E 553603N 123747E	221	25/62.5	25/100		100		27	ELEV SITE 17FT		
		745	ILS/DME	22L	109.500	32X		OXS	553720N 123986E 553721N 123957E	41	25/62.5	25/100		100		27			
		751	ILS/DME	22R	110.900	46X		KLK	TRD 553523N 123600E 553536N 123801E	41	25/62.5	25/100		100		27			
		5551	ILS/DME	12	109.900	36X		KA	TRD 553718N 123830E 553705N 123837E	303	25/62.5	25/100		100		27			
	KOBENHAVN/ROSKILDE	5552	ILS/DME	04L	110.500	42X		CH	TRD 553636N 123630E 553543N 123715E	221	25/62.5	25/100		100		27			
		756	ILS/DME	21	108.700	24X		SN	TRD 553513N 120807E 553455N 120839E	31	25/62.5	25/100		100		29	ELEV SITE 146 FT		
	KOLDING/VAMDRUP	757	ILS/DME	11	111.500	52X		KV	553516N 120709E	296	25/62.5	25/100		100		27			
		5751	DME			37Y		VAM	552817N 102000E TRD 552811N 101835E		(blank)	60/195		195		37	P-RNAV		
	ODENSE	3395	ILS/DME	24	108.350	20Y		OD	552846N 102007E	60	25/62.5	25/100		100		27			
		5557	ILS/DME	26	110.150	38Y		SDL	TRD 573011N 101301E 573009N 101405E	86	25/62.5	25/100		100		27			
	STAUNING/STAUNING	5558	ILS	27	110.100			SVJ	555900N 082000E	92	25/62.5			62			ONLY LLZ		
		5729	DME			100Y		LME	555934N 082116E		(blank)	60/195		195		37	P-RNAV		
		72285	ILS/DME	27	110.100	38X		SVJ	TRD 555900N 082000E 551330N 091457E	272	25/62.5	25/100		100		26			
	VOJENS/SKRYDSTRUP	5416	ILS/DME	10L	109.350	30Y		ISPA	551309N 091711E	285	25/62.5	25/100		100		27	ELEV SITE 141 FT		
		5559	ILS/DME	28R	109.350	30Y		SRV	TRD 551332N 091414E 551309N 091711E	105	25/62.5	25/100		100		29			
	SONDERBORG/SONDERB ALL DENMARK	776	ILS/DME	32	111.150	48Y		CIM	545729N 094755E	139	25/62.5	25/100		100		27			
		714	TAC			34X		ALL DENMARK(LAND)	(blank)		(blank)	40/250		250		40	MIL - NOT USABLE EAST OF 1000EAST(DUE TO SWEDISH ILS/DME)		
		3384	TAC			20Y		ALL DENMARK(LAND)	(blank)		(blank)	40/250		250		40			
		3385	TAC			54X		ALL DENMARK(LAND)	(blank)		(blank)	40/250		250		40	MIL - NOT USABLE IN A ZONE OF 90NM FROM SCHLESWIG(D) TAC CH.55X		
		3386	TAC			112Y		ALL DENMARK(LAND)	(blank)		(blank)	40/250		250		40	MIL		
	ALSIE TRANO RAMME KORSA VESTA CODAN SKRYDSTRUP ODIN KASTRUP AALBORG	4570	DME			122Y		MOB	ALL DENMARK(LAND)		(blank)	80/500		500		37	MOBILE		
		5839	VOR		114.700			ALS	@545419N 093835E		80/500			500	17				
		5836	VOR/DME		117.400	121X		TNO	554627N 112621E		60/500	60/500		500	17	37			
		5835	VOR/DME		111.850	55Y		RAM	@562842N 081115E		150/500	150/500		500	17	37	TVOR		
		5830	VOR/DME		112.800	75X		KOR	552622N 113754E		80/500	80/500		500	17	37			
		5828	VOR/DME		116.800	113X		VES	@553008N 051806E		200/500	200/500		500	17	37			
		5826	VOR/DME		114.900	96X		CDA	@50005N 122245E		60/500	60/500		500	17	37	TVOR		
		5825	VOR/TAC		110.400	41X		SKR	551344N 091251E		80/500	80/500		500	17	37			
		5822	VOR/DME		115.500	102X		ODN	@55452N 103911E		80/500	80/250		500	17	37			
		5820	VOR/DME		112.500	72X		KAS	553526N 123646E		80/500	60/500		500	17	37			
		5817	VOR/TAC		116.700	114X		AAL	570614N 095444E @550356N 144531E		100/500	100/500		500	17	40			
			ROENNE/ROENNE	5815	VOR/TAC		112.000	57X		ROE	550343N 144521E		150/500	150/500		500	17	40	
				5705	DME			93Y		BEL	554728N 120545E		(blank)	60/195		195		37	P-RNAV
		E	AGONCILLO	6708	VOR/DME		115.450	101Y		LPA	422728N 021937W TRD 385657N 010355W		60/500	60/500		500	20	37	DVOR
				5096	ILS/DME	9	110.700	44X		IABT	385649N 015231W	268	25/62.5	25/100		100		29	
	ALBACETE	6508	VOR/DME		115.800	105X		VAB	385650N 015134W TRD 385652N 015303W		100/250	200/500		500	17	37	TVOR		
		6709	ILS/DME	27	109.700	34X		IAE	385652N 015104W	88	25/62.5	25/100		100		29			
	ALICANTE	6768	TAC			17X		TAB	385645N 015149W		(blank)	200/600		600		40			
		799	VOR/DME		113.800	85X		ALT	@381606N 003412W		120/500	120/500		500	23	37			

COM3- List of national and international assignments in country order

CTY	Location	SAFIRE Ref	Service	Rwy Designator	VHF Channel	DME Channel	MLS Channel	Id	Co-ordinates	TRD	VHFDOC	DMEDOC	MLSDOC	MaxFL	VHF EIRP	DME EIRP	Remarks
	ALICANTE	4729	VOR/DME		114.650	93Y		ATE	381710N 003512W 381710N 003513W		40/250	40/250		250	17	37	
	ALMERIA/ALMERIA	6769	ILS/DME	25	109.900	36X		IAM	TRD 365021N 022324W 365047N 022124W 365046N 022124W	73	25/62.5	25/100		100		29	
	AVILES/ASTURIAS	6510	VOR/DME		112.400	71X		VES	@433325N 060026W 433326N 060026W		200/500	200/500		500	23	37	
		6711	ILS/DME	29	110.100	38X		AVS	TRD 433346N 060258W 433344N 060129W	108	25/62.5	25/100		100		27	
	BADAJOS	6770	TAC		112.400	25X		TBC	385330N 064907W		(blank)	200/600		600		37	
	CASTELLON	6653	VOR/DME		117.050	117Y		CTN	401308N 000521E		40/250	40/250		250	17	27	
		6654	ILS/DME	6	111.950	56Y		ICN	TRD 401320N 000523E 401328N 000345E	237	25/62.5	25/100		100		29	
	CIUDAD REAL	6655	ILS/DME	10	111.100	48X		ICR	385100N 035800W		25/62.5	25/100		100		29	Future requirement
		6712	VOR/DME		114.300	90X		ADO	385100N 035800W		40/250	40/250		250	17	27	DVOR. Future requirement
	CORDOBA	4766	VOR/DME		112.400	71X		COB	375045N 045042W		40/250	40/250		250	17	27	TVOR
	GERONA/COSTA BRAVA	6514	VOR/DME		114.100	68X		GIR	@415328N 024619E TRD 415332N 024528E		80/250	80/250		250	23	43	
		6658	ILS/DME	20	109.900	36X		IGN	415442N 024548E	16	25/62.5	25/100		100		27	
	GRANADA/ARMILLI	6516	TAC		112.400	78X		TGR	370757N 033802W		(blank)	40/250		250		37	
		6866	ILS/DME	36	109.500	32X		IGA	TRD 370830N 033605W 370751N 033804W	182	25/62.5	25/100		100		29	
		6865	ILS/DME	9	109.300	30X		GRD	TRD 371120N 034530W 371123N 034723W	270	25/62.5	25/100		100		29	
	HUESCA	6517	VOR/DME		114.550	92Y		HUE	420424N 001908W		60/500	60/500		500	20	37	DVOR
		6663	ILS/DME	24	109.500	32X		IBZ	TRD 385157N 012121E 385235N 012306E	62	25/62.5	25/100		100		27	
	LEON	4767	VOR/DME		112.000	57X		EON	423538N 053848W		60/500	60/500		500	20	37	DOPPLER
		6667	ILS/DME	23	109.500	32X		ILE	TRD 423451N 054001W 423559N 053835W	45	25/62.5	25/100		100		29	AD 2 - LELN 5
		6668	ILS/DME	31	110.900	46X		ILL	TRD 414414N 003125E 414320N 003125E	133	25/62.5	25/100		100		29	
		6669	VOR/DME		113.600	83X		LLE	414347N 003139E		40/250	40/250		250	17	27	
	LOGRONO	6715	ILS/DME	29	108.350	20Y		ILO	TRD 422751N 022003W 422732N 0101837W	110	25/62.5	25/100		100		29	
		4100	ILS/DME	18R	110.700	44X		IMR	TRD 402824N 033829W 403112N 033424W	360	25/62.5	25/100		100		29	
	MADRID/BARAJAS	6671	ILS/DME	32L	109.900	36X		MAA	TRD 402912N 033440W 402757N 033177W	142	25/62.5	25/100		100		29	
		6672	VOR/DME		116.450	111Y		BRA	402809N 033327W 402808N 033328W		60/250	200/500		500	17	37	
		6673	ILS/DME	32R	109.100	28X		MBB	TRD 402949N 033336W 402835N 033214W	142	25/62.5	25/100		100		27	
		6674	ILS/DME	18L	111.500	52X		MLL	TRD 402954N 033333W 403132N 033329W	360	25/62.5	25/100		100		27	
	MADRID/TORREJON	661	VOR/DME		115.100	98X		VTZ	402832N 032819W		40/250	40/250		250	17	27	TVOR
		6771	TAC		115.100	72X		TJZ	402956N 032644W		(blank)	40/250		250		40	
		6676	ILS/DME	1	110.300	40X		IMH	TRD 395240N 041318E 395116N 041258E	189	25/62.5	25/100		100		29	
	MAHON/MENORCA	6677	VOR/DME		112.600	73X		MHN	@395149N 041259E 395149N 041258E		120/500	120/500		500	23	37	DVOR
		6678	ILS/DME	19	111.500	52X		MAO	TRD 395059N 041258E 395098N 041258E	9	25/62.5	25/100		100		27	
	MELILLA	872	VOR/DME		117.400	121X		MLL	351827N 025719W		80/250	80/250		250	17	37	
		6520	VOR/DME		114.250	89Y		MEL	351650N 025729W		100/500	100/500		500	20	37	DVOR
	MURCIA/REGION	6961	VOR/DME		114.850	95Y		MUR	374806N 010715W		40/250	40/250		250	17	27	
		7020	ILS/DME	23	111.750	54Y		IRM	TRD 374730N 010822W 374835N 010651W	50	25/62.5	25/100		100		27	
		881	ILS/DME	06L	110.900	46X		PLM	TRD 393350N 024447E 393259N 024248E	239	25/62.5	25/100		100		29	
	PALMA DE MALLORCA	6521	VOR/DME		117.700	124X		JOA	393350N 024448E		40/250	40/250		250	17	37	
		6684	ILS/DME	24L	109.300	30X		IPAL	TRD 393223N 024343E 393310N 024534E	59	25/62.5	25/100		100		27	
		6686	VOR/DME		113.300	80X		MJV	@392607N 024530E 392607N 024530E		200/500	200/500		500	23	43	
		6733	ILS/DME	24R	109.900	36X		PAA	TRD 393245N 024228E 393341N 024418E	59	25/62.5	25/100		100		29	
		6772	TAC		111.750	21X		SSJ	393359N 024400E		(blank)	200/600		600		40	
		6688	ILS/DME	15	109.700	34X		IPN	TRD 424522N 015818W 424640N 013901W	332	25/62.5	25/100		100		27	
	PAMPLONA/OAIN	6689	VOR/DME		113.550	82Y		PAP	424640N 013902W		80/250	80/250		250	17	37	TVOR
		4090	ILS	10	108.700			IAOG	TRD 363834N 061924W 363846N 061924W	277	25/62.5					62	
	ROTA	6773	TAC		112.200	23X		AOG	363852N 062057W		(blank)	40/250		250		37	
	SALAMANCA	898	VOR/DME		112.200	59X		BBI	410100N 052725W		40/250	40/250		250	23	37	
		6693	ILS/DME	21	110.100	38X		IALL	TRD 405623N 053038W 405737N 052843W	28	25/62.5	60/60		100	12	20	MIL MATACAN
		6774	TAC		109.550	80X		TSC	405719N 053009W		(blank)	100/500		500		40	
		27925	ILS	3	109.550			IMN	TRD 405700N 053100W 425447N 082515W	210	25/62.5			62			MIL TTLS
		6689	ILS/DME	17	110.300	40X		IGO	TRD 425317N 082440W 425317N 082439W	166	25/62.5	25/100		100		27	
	SANTIAGO/SANTIAGO	6697	ILS/DME	17	110.300	40X		IGO	TRD 425254N 082437W 425430N 082504W	346	25/62.5	25/100		100		27	

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	SEVILLA	915	VOR/DME		113.700	84X		SVL	@372539N 054544W 372539N 054544W		200/500	200/500		500	23	37	
		6698	ILS/DME	9	111.100	48X		ISE	TRD 372500N 055211W 372500N 055431W	270	25/62.5	25/100		100	29	29	
	SEVILLA/MORON	916	TAC			100X		MRN	371024N 053714W (blank)			150/500		300		37 MIL	
	SEVILLA/SEVILLA	6699	ILS/DME	27	110.100	38X		ISV	TRD 372504N 054565W 372501N 055243W	90	25/62.5	25/100		100	29	29	
	TOLEDO	920	VOR/DME		113.200	79X		TLD	396810N 042014W TRD 425352N 024235W		60/500	60/500		500	23	37	
	VITORIA/VITORIA	936	ILS/DME	4	108.900	26X		VTO	425218N 024401W 424355N 025155W	216	25/62.5	25/100		100	29	29	
		938	VOR/DME		116.600	113X		VRA	425250N 024328W		40/250	40/250		250	17	37 TVOR	
		6526	VOR/DME		112.900	76X		VFD	425250N 024327W		60/500	60/500		500	20	37 DVOR	
	ZARAGOZA/ZARAGOZA	6527	VOR/DME		113.000	77X		ZAR	413928N 010151W TRD 414017N 010242W		40/250	40/250		250	20	37 TVOR	
		6707	ILS/DME	30R	109.500	32X		IZZA	413921N 010044W 413921N 010044W	120	25/62.5	25/100		100	29	29	
		6777	TAC			64X		ZZA	414038N 010331W (blank)			100/500		500		38	
	COLMENAR VIEJO	6656	VOR/DME		117.300	120X		CNR	403846N 034409W		100/500	100/500		500	23	43	
	YESTE	939	VOR/DME		115.200	99X		YES	382139N 022109W 394651N 032750W		60/500	60/500		500	23	43	
	VILLATOBAS	934	VOR/DME		112.700	74X		VTB	394651N 032751W		60/500	60/500		500	23	37	
	VALENCIA	6523	VOR/DME		116.100	108X		VLC	392908N 002900W TRD 392954N 003020W		60/500	200/500		500	20	37	
		6700	ILS/DME	30	110.100	38X		IVC	392906N 002824W 392906N 002823W	116	25/62.5	25/100		100		27	
		6701	ILS/DME	12	111.500	52X		VLN	TRD 392855N 002745W 392938N 002949W	296	25/62.5	25/100		100	27	27	
	TALAVERA LA REAL	919	VOR/DME		116.800	115X		VBZ	385324N 005577W TRD 410834N 010906E		180/250	180/250		250	17	37	
	REUS	890	ILS/DME	25	110.100	38X		IRS	410900N 011049E	69	25/62.5	25/100		100	27	27	
		6691	VOR/DME		114.200	89X		RES	@410859N 011016E		120/500	120/500		500	23	37	
		40466	VOR/DME		115.300	119X		MRN	371033N 022109W		185/500	185/500		500	20	37	Future requirement
	MORON DE LA FRONTE	875	VOR/DME		115.500	102X		MRN	371030N 023708W		185/500	185/500		500	20	37	
		6682	ILS/DME	20	109.700	34X		IMRF	TRD 370925N 053727W 371117N 053642W	20	25/62.5	25/100		100		29 MIL	
	MALAGA	870	VOR/DME		112.000	57X		MGA	@364628N 041040W 364851N 042211W		120/500	120/500		500	23	38	
		4739	VOR/DME		113.550	82Y		MLG	364044N 043024W 364043N 043024W		60/500	60/500		500	20	37	
		6679	ILS/DME	13	109.500	32X		GMM	TRD 363950N 042901W 364055N 043039W	312	25/62.5	25/100		100	29	29	
		6680	ILS/DME	31	109.900	36X		GAA	TRD 364109N 043052W 363959N 042921W	132	25/62.5	25/100		100	29	29	
		6720	ILS/DME	12	110.550	42Y		IMG	TRD 364039N 042832W 364126N 043151W	298	25/62.5	25/100		100	29	29	
		6959	GBAS		115.150			LEMG	364113N 043045W		23/100			100	19		
		6960	VOR/DME		117.150	118Y		AGP	364104N 042914W		120/500	120/500		500	20	37	
	MAELLA	862	VOR/DME		112.100	58X		MLA	@410748N 000959E		100/500	100/500		500	23	43	
	IBIZA	841	VOR/DME		117.800	125X		IBA	410747N 000958E TRD 385248N 012328E		150/500	150/500		500	20	37	
		6662	ILS/DME	6	111.100	48X		IBI	385202N 012145E	242	25/62.5	25/100		100	29	29	
	HINOJOSA DEL DUQUE	840	VOR/DME		114.700	94X		HUJ	383029N 005559W		80/500	80/500		500	23	38	
	CALLES	826	VOR/DME		117.550	122Y		CLS	394226N 005911W		100/500	100/500		500	20	37	
	CALAMOCCHA	825	VOR/DME		116.000	107X		CMA	405202N 011753W		60/500	60/500		500	23	37	
	BARAHONA	814	VOR/DME		112.800	75X		BAN	411925N 023748W		60/500	60/500		500	23	37	
	BAILEN	813	VOR/DME		115.300	109X		BLN	380939N 033730W		100/500	100/500		500	23	37	
	ALMERIA	803	VOR/DME		114.100	88X		AMR	364859N 021634W		60/250	60/250		250	23	37	
	ALL SPAIN	802	VOR/DME		116.100	108X			ALL SPAIN(LAND)		60/250	60/250		250	17	37 MOBILE EQUIPMENT	
		6145	TAC			26Y			ALL SPAIN(LAND)		(blank)	40/250		250		40 MIL	
		6146	TAC			34X			ALL SPAIN(LAND)		(blank)	40/250		250		40	
		6147	TAC			54X			ALL SPAIN(LAND)		(blank)	40/250		250		40 MIL	
		6148	TAC			112Y			ALL SPAIN(LAND)		(blank)	40/250		250		40 MIL	
	BARDENAS	7268	TAC			23X		TBR	421149N 012833W TRD 401813N 034241W		(blank)	40/250		250		40 MIL	
	GETAFE	6659	ILS/DME	5	110.900	46X		IGE	401716N 034349W	225	25/62.5	25/100		100	29	29	
	ALCANTARILLA	6779	VOR/TAC		112.050	57Y		VGE	401723N 034334W		100/250	100/250		250	20	44	
		6778	TAC			113X		TRL	375701N 011348W		(blank)	40/250		250		37	
		6522	VOR/DME		117.900	126X		SSN	431840N 014849W		25/250	25/250		250	17	27 DOPPLER	
		6775	DME			79X		HIG	432311N 014745W 371059N 035927W		(blank)	50/400		400		37	
	GRANADA	6767	VOR/DME		113.400	81X		GDA	371100N 035927W		150/250	150/250		250	20	38	
	CACERES	6766	VOR/DME		114.200	89X		CCS	383126N 063605W		115/500	115/500		500	20	37	
	SAN JAVIER	5098	ILS/DME	05R	110.500	42X		ISJ	TRD 374700N 064804W 374608N 064904W	226	25/62.5	25/100		100	29	29	
		5964	ILS/DME	23L	109.300	30X		ISR	TRD 374558N 064925W 374647N 064904W	46	25/62.5	25/100		100	29	29 MIL	
		6765	VOR/DME		113.000	77X		VSJ	374647N 064846W		90/500	90/500		500	20	37	
	JEREZ	6714	VOR/DME		113.000	77X		JRZ	364855N 060135W TRD 364357N 060358W		40/250	40/250		250	17	27 DVOR	
		6734	ILS/DME	20	108.900	26X		IJR	364504N 060320W 364504N 060321W	21	25/62.5	25/100		100		27	
	ALICANTE/ALICANTE	6710	ILS/DME	10	110.300	40X		IAT	TRD 381646N 003216W 381658N 003417W	280	25/62.5	25/100		100	29	29	
	ZAMORA	6706	VOR/DME		117.100	118X		ZMR	@413149N 05105323W 413148N 053823W		200/500	200/500		500	23	43	
	VILLANUBLA	4930	VOR/DME		113.650	83Y		NUB	414219N 048103W		100/250	100/250		250	20	37 MIL	

COM3- List of national and international assignments in country order

CTY	Location	SAFIRE Ref	Service	Rwy Designator	VHF Channel	DME Channel	MLS Channel	Id	Co-ordinates	TRD	VHFDOC	DMEDOC	MLSDOC	MaxFL	VHF EIRP	DME EIRP	Remarks
	VILLANUBLA	6705	ILS/DME	23	109.300	30X		IVD	TRD 414143N 045201W 414247N 045027W 414240N 045027W	46	25/62.5	25/100		100		27	
	VIGO	6703	ILS/DME	19	110.900	46X		VIG	TRD 421312N 083748W 421423N 083726W	11	25/62.5	25/100		100		27	
		6704	VOR/DME		113.600	83X		VGO	421916N 083605W @425537N 082531W		40/250	40/250		250	17	27	
	VEJER DE LA FRONTE	6702	VOR/DME		117.800	125X		VJF	@361422N 055832W 361421N 055831W		100/500	100/500		500	23	37	
	SANTIAGO	6696	VOR/DME		116.400	111X		STG	@425537N 082531W 425536N 082531W		200/500	200/500		500	23	43	
	SANTANDER	6695	VOR/DME		115.300	100X		SNR	432700N 035408W		150/500	150/500		500	17	37	
	SABADELL	6692	VOR/DME		112.000	57X		SLL	413112N 020635E		60/500	60/500		500	20	37 DVOR	
	POLLENSA	6690	VOR/DME		116.400	111X		POS	395540N 030654E		60/250	60/250		250	23	38 DVOR	
	PAMPLONA	6687	VOR/DME		112.300	70X		PPN	@424402N 014207W		100/500	100/500		500	20	37	
	NAVAS DEL REY	6683	VOR/DME		114.950	96Y		NVS	402207N 041458W		200/500	200/500		500	20	37 DOPPLER	
	MARTIN	6681	VOR/DME		112.600	73X		MAR	370320N 045623W		100/500	100/500		500	20	37	
	MADRID/PERALES	6675	VOR/DME		116.950	116Y		PDT	401511N 032053W		60/500	60/500		500	17	37 DVOR	
	LA CORUÑA/LA CORUÑA	6518	VOR/DME		115.100	98X		LRA	432346N 081925W		40/250	40/250		250	17	27	
		6666	ILS/DME	21	109.900	36X		LOO	TRD 431726N 082312W 431825N 082228W	31	25/62.5	25/100		100		29	
	DOMINGO	6657	VOR/DME		112.600	73X		DGO	422712N 025250W		80/500	80/500		500	23	37 DVOR	
	CASTEJÓN	6652	VOR/DME		115.600	103X		CJN	402249N 023421W		100/500	100/500		500	23	37 DVOR	
	CAPDEPERA	6651	VOR/DME		112.900	76X		CDP	@394151N 032603E		200/500	200/500		500	20	37	
	BILBAO	6648	ILS/DME	30	110.300	40X		IBL	TRD 431827N 025542W 431753N 025420W	117	25/62.5	25/100		100		29	
		6649	VOR/DME		115.900	106X		BLV	@451615N 020509W TRD 431744N 026342W		150/500	150/500		500	23	37	
		6650	ILS/DME	12	111.550	52Y		IBO	431816N 025520W	297	25/62.5	25/100		100		27	
		40465	VOR/DME		117.650	123Y		BLV	@451615N 020509W @411659N 020458E		200/500	200/500		500	23	37	Future requirement
	BARCELONA	6511	VOR/DME		114.300	90X		PRA	411659N 020454E		200/500	200/500		500	23	37	
		6512	VOR/DME		116.700	114X		BCN	411826N 020628E		60/500	60/500		500	20	37 DVOR	
		6643	ILS/DME	25R	109.500	32X		BCA	TRD 411732N 020351E 411820N 020559E	66	25/62.5	25/100		100		29	
		6644	ILS/DME	07R	110.750	44Y		BLE	TRD 411735N 020618E 411657N 020441E	246	25/62.5	25/100		100		29	
		6645	ILS/DME	25L	111.500	52X		BLW	TRD 411654N 020420E 411724N 020602E	66	25/62.5	25/100		100		29	
		6646	ILS/DME	07L	110.300	40X		QAA	TRD 411825N 020628E 411748N 020430E	246	25/62.5	25/100		100		27	
		6647	ILS/DME	2	108.750	24Y		BLT	TRD 411840N 020544E 411725N 020508E	199	25/62.5	25/100		100		27	
	BAGUR	6642	VOR/DME		112.200	59X		BGR	419652N 031233E		100/500	100/500		500	20	37	
	VILLAFRIA	6525	VOR/DME		111.400	51X		BUR	422118N 033649W		60/500	60/500		500	20	37	
	VILLAFRANCA	6524	VOR/DME		113.150	78Y		VLA	412034N 013252E		60/500	60/500		500	20	37 DVOR	
	MADRID/SAN SEBASTIAN	6519	VOR/DME		117.850	125Y		SSY	403247N 033431W		40/250	40/250		250	17	37 DVOR	
	CALELLA	6513	VOR/DME		115.350	100Y		CLE	413824N 023804E		60/500	60/500		500	20	37 DVOR	
	CEUTA	5232	DME			124Y		CEU	355333N 051819W		(blank)	60/500		500	20	37	
	TORREJÓN	5099	ILS/DME	22	109.500	32X		ITJA	TRD 402843N 032607W 403024N 032607W	43	25/62.5	25/100		100		29	
	BADAJOS/TALAVERA	5097	ILS/DME	31	110.500	42X		ITL	TRD 385401N 065015W 385310N 064836W	126	25/62.5	25/100		100		29	
	SANTANDER/SANTANDE	4626	ILS/DME	29	110.900	46X		STA	TRD 432533N 035011W 432532N 034837W	110	25/62.5	25/100		100		29	
	ANDRAITX	4572	VOR/DME		117.400	121X		DRA	393200N 022400E		150/500	150/500		500	20	37	Future requirement
	TABANERA	4564	VOR/DME		116.750	114Y		NEA	420139N 040633W		100/500	100/500		500	20	37	
	ROBLEDILLO	4393	VOR/DME		113.950	86Y		RBO	405114N 031448W		60/500	60/500		500	20	37 DOPPLER	
	SOMOSIERRA	4096	VOR/DME		115.400	101X		SIE	410906N 033617W		60/500	60/500		500	20	37 DOPPLER	
EST	AMARI	6078	VOR/TAC		116.500	112X		AMI	591602N 241448E Alt=13		80/500	80/500		500	20	27	
		6606	ILS/DME	24	108.700	24X		IGO	TRD @591517N 241038E 591555N 241304E Alt=18,20	70	25/62.5	25/100		101	14	20	
		6607	ILS/DME	6	108.700	24X		IAM	TRD @591551N 241347E 591533N	250	25/62.5	25/100		101	14	20	
	KARDLA	5775	DME			123X		KRD	585932N 224952E Alt=3		(blank)	20/100		100		27	
	KURESSARE	3532	VOR/DME		112.400	71X		KRS	581342N 233055E Alt=3		50/500	80/500		500	17	37	
		6605	ILS/DME	17	109.900	36X		IWA	TRD @591519N 223035E 591418N	353	25/62.5	25/100		100	14	20	
	PARNU	4788	VOR/DME		115.900	106X		PRN	582500N 242758E Alt=3		30/500	30/500		500	20	30	
	TALLINN	3531	VOR/DME		112.200	59X		TLL	592441N 245018E Alt=39		80/500	80/500		501	17	37 DOPPLER	
		6337	ILS/DME	26L	109.300	30X		ILK	TRD @592447N 244805E 592444N	83	25/62.5	25/100		101	14	20	
		6338	ILS/DME	08L	108.300	20X		IIB	TRD @591825N 245223E 592445N	263	25/62.5	25/100		101	14	20	
	TARTU	6604	ILS/DME	26	108.500	22X		IUM	TRD @591825N 263949E 591824N	88	25/62.5	25/100		102	14	20	

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EST	VILJANDI	5533	VOR/DME		114.900	96X		VI	583921N 253429E Alt=61		80/500	80/500		500	20	37	
	ALL ESTONIA	5195	TAC			26Y			250+LAND A-250)		(blank)	40/250		250			40 LAND MOBILE
		5197	TAC			54X			ALL ESTONIA(LAND)		(blank)	40/250		250			40 LAND MOBILE
		5198	TAC			112Y			ALL ESTONIA(LAND)		(blank)	40/250		250			40 LAND MOBILE
		5199	TAC			40Y			ALL ESTONIA(LAND)		(blank)	40/250		250			40 LAND MOBILE
		5202	TAC			116X			ALL ESTONIA(LAND)		(blank)	40/20		20			40 MOBILE - IMPL. 2004
	A_MARI	69485	VOR/TAC		115.300	100X		AMI	591602N 241448E		150/500	150/500		500	30	40	
F	ALBERT-BRAY	5399	ILS/DME	27	108.750	24Y		ABY	495819N 024218E	85	25/62.5	25/250		250		29	
	AMBERIEU	995	TAC			110X		AMU	@455900N 052000E		(blank)	120/500		500		40	
		4627	TAC			79Y		TST	455900N 052000E		(blank)	40/200		200		40	MAINT
		4628	TAC			69X		TST	455900N 052000E		(blank)	40/200		200		40	MAINT
	ANGERS-MARCE	998	ILS/DME	26	108.900	26X		AS	473342N 001828W	81	25/62.5	23/100		100		29	
		1000	VOR		113.000			ANG	@473213N 005107W		120/500			500	17		
	AURILLAC	1007	ILS	15	110.300			AR	445340N 022503E	329	25/62.5			62			
									TRD 435350N 045416E								
	AVIGNON/CAUMONT	1012	ILS/DME	17	110.500	42X		AN	435441N 045408E	349	25/62.5	25/100		100		29	
									TRD 473503N 073200E								
	BALE/MULHOUSE	1018	ILS/DME	15	111.550	52Y		MH	473653N 073037E	335	25/62.5	23/100		100		29	
		4098	VOR/DME		117.450	121Y		BLM	@473758N 072958E		100/500	100/500		500	17	37	
									TRD 473714N 073028E								
									473547N 073121E								
	BASTIA/PORETTA	4665	ILS/DME	33	109.350	30Y		BLU	473547N 073120E	155	25/62.5	25/250		250		29	
		1022	VOR/DME		114.150	88Y		BTA	423425N 092829E		80/500	80/500		500	17	37	
									TRD 423405N 092838E								
									423242N 092919E								
	BEAUVAIS/TILLE	5713	ILS/DME	34	111.350	50Y		BAS	492734N 020604E	163	25/62.5	23/100		100		29	
		1024	ILS/DME	30	109.950	36Y		BI	492648N 020741E	124	25/62.5	23/100		100		29	
		1025	VOR/DME		109.650	33Y		BOV	492600N 020900E		100/400	145/400		400	17	37	
									TRD 492641N 020809E								
									492719N 020604E								
	BORDEAUX/MERIGNAC	6028	ILS/DME	12	111.150	48Y		BVT	444854N 004406W	304	25/62.5	25/250		250		29	
		1035	ILS/DME	23	110.300	40X		BD	445016N 004218W	45	25/62.5	23/100		100		29	
									TRD 444956N 004359W								
		4038	ILS/DME	29	111.150	48Y		BEI	444831N 004214W	106	25/62.5	23/100		100		29	
		5134	VOR/DME		113.750	84Y		BMC	@444937N 004316W		150/500	150/500		500	20	36	
									TRD 450242N 012807E								
	BRIVE/SOULLAC	6020	ILS/DME	29	109.950	36Y		BVC	450211N 012933E	115	25/62.5	25/250		250		29	
									TRD 451015N 003005W								
	CAENICARPIQUET	3634	ILS/DME	31L	110.950	46Y		CN	491024N 002650W	125	25/62.5	23/100		100		29	
		6548	VOR/DME		114.450	91Y		CAN	491024N 002719W		100/500	100/500		500	17	37	
	CAHORS/LALBENQUE	4829	ILS/DME	13	108.550	22Y		CHS	442100N 012900E		25/62.5	25/250		250		29	use for trial, not AIP published
	CAMBRAJEPINOY	1064	VOR/DME		112.600	73X		CMB	501341N 030305E		80/500	80/500		500	17	37	
									TRD 433323N 065658E								
	CANNES/MANDELIEU	5043	ILS/DME	35	110.350	40Y		CMD	433324N 065700E	173	25/62.5	25/250		250		29	
									TRD 431254N 021910E								
	CARCASSONNE	4103	ILS/DME	10	111.100	48X		CS	431304N 021254E	276	25/62.5	23/100		100		29	
									TRD 443132N 010835W								
	CAZAUX	4528	ILS	24	110.100			CAA	443215N 010655W	57	25/62.5			62			
		4776	TAC			45X		CAA	@443152N 010810W		(blank)	250/600		600		34	
									TRD 484648N 040919E								
	CHALONS/VATRY	4076	ILS/DME	28	109.550	32Y		CVL	484620N 041214E	101	25/62.5	25/100		100		29	
		4078	VOR/DME		111.650	53Y		CAV	484652N 040849E		40/250	40/250		250	17	37	
									TRD 484620N 041250E								
	CHATEAUDUN	4784	ILS/DME	10	111.300	50X		CVD	484639N 040948E	281	25/62.5	25/250		250		29	
		1091	TAC			39X		CHN	480321N 012231E		(blank)	40/500		500		40	
		4756	VOR/DME		115.950	106Y		CAD	@480333N 012313E		80/500	80/500		500	17	37	
									@491519N 023053E								
	CREIL	1120	VOR/TAC		109.200	29X		CRL	491522N 023102E		60/500	60/500		500	17	40	
	DJON/LONGVIC	4740	VOR/DME		111.450	51Y		DJL	@471618N 005050E		100/500	100/500		500	17	37	
									TRD 470249N 052636E								
	DOLE/TAVAUZ	1136	ILS/DME	5	109.350	30Y		DO	470202N 052510E	234	25/62.5	25/100		100		29	
	EPINAL/MIRECOURT	1141	ILS	26	110.900			MI	481926N 060255E	85	25/62.5			62			
		1142	VOR		113.000			EPL	481904N 060334E		60/500			500	17		
									TRD 490059N 011215E								
	EVREUX/FAUVILLE	1145	ILS	22	111.300			EVX	490211N 011357E	40	25/62.5			62			
		1146	VOR/TAC		112.400	71X		EVX	@490154N 011315E								
		39786	TAC			31Y		TST	490143N 011251E		150/500	150/500		500	17	40	
		39785	TAC			23X		TST	490200N 011200E		(blank)	#####		10		37	GROUND TEST AND MAINTENANCE
	GROSTENQUIN	1158	VOR/DME		111.250	49Y		GTO	490200N 011200E		(blank)	#####		10		37	GROUND TEST AND MAINTENANCE
	HYERES	1161	TAC			27X		HVE	@405511N 082828E		100/500	100/500		500	17	37	
									430601N 060852E		(blank)	40/250		250		39	
									TRD 430624N 060943E								
		5264	ILS/DME	5	108.100	18X		HY	430546N 060847E	231	25/62.5	25/250		250		29	
		7175	VOR/DME		110.050	37Y		HRE	430600N 060900E		50/250	50/250		250	20	37	MIL
		1165	TAC			104X		ITR	433134N 045537E		(blank)	200/500		500		40	
									TRD 433016N 045613E								
		4732	ILS/DME	15	111.300	50X		IST	433208N 045459E	333	25/62.5	25/250		250		29	
		5566	VOR/DME		112.700	74X		ITS	433001N 045624E		100/500	100/500		500	20	37	
	LANDIVISIAU	1176	TAC			98Y		LDV	@483142N 040933W		(blank)	200/500		500		40	
									TRD 483134N 041022W								
		4356	ILS/DME	26	108.500	22X		LD	483201N 040823W	73	25/62.5	25/100		100		29	
	LANVEOC-POULMIC	4533	TAC			94X		BST	481704N 042708W		(blank)	40/250		250		40	
	LILLE/LESQUIN	3572	VOR/DME		109.000	2											

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LORIENT	LUXEUIL	4355	ILS/DME	25	108.150	18Y		BH	TRD 474521N 032740W	72	25/62.5	25/100					29
									474546N 032607W								
LYON/BRON	LYON/ST EXUPERY	4107	ILS/DME	34	111.300	50X		LY	@474118N 061744E	163	25/62.5	25/100					29
									TRD 454415N 045623E								
MARSEILLE/PROVENCE	MARSEILLE/PROVENCE	1212	ILS/DME	17L	109.100	28X		LSS	TRD 454228N 050543E	355	25/62.5	25/100					29
									454357N 051309E								
MENDE	MENDE	4221	ILS/DME	31R	111.150	48Y		MPV	TRD 454486N 050508E	134	25/62.5	25/100					29
									454250N 050531E								
MONTPELLIER/MEDITERRAN	MONTPELLIER/MEDITERRAN	4793	ILS/DME	13R	108.300	20X		MCE	TRD 432599N 051333E	315	25/62.5	25/100					29
									432639N 051208E								
NANTES/ATLANTIQUE	NANTES/ATLANTIQUE	1271	ILS/DME	3	109.900	36X		NT	TRD 432659N 051147E	207	25/62.5	25/100					29
									432579N 051309E								
NICE/COTE D'AZUR	NICE/COTE D'AZUR	1277	ILS/DME	04R	110.700	44X		NA	TRD 432579N 051309E	225	25/62.5	23/100					29
									432579N 051333E								
NIMES/GARONS	NIMES/GARONS	4541	ILS/DME	18	109.550	32Y		NG	TRD 432639N 051208E	357	25/62.5	23/100					29
									433515N 035711E								
ORANGE/CARITAT	ORANGE/CARITAT	1288	TAC			31X		ORG	TRD 434311N 035848E	225	25/62.5	25/250					29
									433935N 071328E								
ORLEANS/BRICY	ORLEANS/BRICY	1291	ILS	25	111.300			OAN	TRD 440843N 045142E	69	25/62.5	100/250					37 MIL
									440843N 045142E								
PARIS/CH. DE GAULLE	PARIS/CH. DE GAULLE	6859	ILS/DME	26R	111.950	56Y		GAU	TRD 440744N 045247E	324	25/62.5						29
									440843N 045142E								
PARIS/CH. DE GAULLE	PARIS/CH. DE GAULLE	1296	ILS/DME	27L	110.700	44X		CGW	TRD 475859N 014432E	85	25/62.5	25/100					29
									475922N 014519E								
PARIS/ILE BOURGET	PARIS/ILE BOURGET	1303	ILS	25	111.100			LBW	TRD 490126N 023433E	68	25/62.5	25/250					29
									489531N 023412E								
PARIS/ORY	PARIS/ORY	1308	ILS/DME	02L	110.300	40X		OLN	TRD 485931N 023259E	198	25/62.5	25/100					29
									485936N 023554E								
REIMS/CHAMPAGNE	REIMS/CHAMPAGNE	1335	ILS	25	110.100			RC	TRD 485944N 023650E	74	25/62.5	23/100					29
									484311N 022248E								



CTY	Location	SAFIRE Ref	Service	Rwy Designator	VHF Channel	DME Channel	MLS Channel	Id	Co-ordinates	TRD	VHFDC	DMEDOC	MSDOC	MaxFL	VHF EIRP	DME EIRP	Remarks
	REIMS/CHAMPAGNE	50145	VOR		112.300			RM	491842N 040243E			70/500		500	17		
	REIMS/CHAMPAGNE							TRD	480426N 014454W					500			29
	RENNES/ST-JACQUES	1338	ILS/DME	28	110.100	38X		RS	480419N 014319W	101	25/62.5	23/100		100			
	RENNES/ST-JACQUES	4909	VOR/DME		109.250	29Y		REN	480409N 014430W		150/500	150/500		500	20		37
	RODEZ	3494	ILS/DME	31	110.750	44Y		RDE	TRD 442452N 022817E	129	25/62.5	25/100		100			29
	RODEZ							TRD	442412N 022916E					100			
	SALON	1377	ILS	16	110.900			SAL	433648N 050628E	340	25/62.5			62			
	SALON	1379	TAC			98Y		SAL	433643N 050610E		(blank)	100/500		500			40
	SOLENZARA	1382	ILS	18	109.100			SZA	TRD 415434N 092421E	359	25/62.5			62			
	SOLENZARA	1385	TAC			87X		SZA	415600N 092413E		(blank)	200/600		600			40
	TOULOUSE/BLAGNAC	1398	ILS/DME	14L	108.900	26X		TG	TRD 433650N 012255E	323	25/62.5	25/100		100			29
	TOULOUSE/BLAGNAC							TRD	433804N 012130E					100			
	TOULOUSE/BLAGNAC	1400	ILS/DME	32L	109.300	30X		TBN	433719N 012217E	143	25/62.5	25/100		100			29
	TOULOUSE/BLAGNAC	1402	ILS/MLS/DME	14R	110.700	44X	526	TBS	TRD 433653N 012235E	323	25/62.5	23/100	23/100	100			29
	TOULOUSE/BLAGNAC							TRD	433833N 012058E					100			
	TOULOUSE/BLAGNAC	4588	ILS/DME	32R	108.350	20Y		TD	433821N 012120E	143	25/62.5	25/100		100			29
	TOULOUSE/BLAGNAC	5886	VOR/DME		117.700	124X		TOU	@434051N 011835E		120/500	120/500		500	17		37
	TOULOUSE/ENAC	29051	GBAS		114.050			STNA	433654N 012303E		23/100			100	19		TESTING GBAS
	TOULOUSE/ENAC	1404	ILS	7	108.100			AC	433700N 012200E		25/62.5			62			
	TOULOUSE/ENAC	1405	VOR		112.850			ENAC	433700N 012200E		40/250			250	17		training use, not published
	TOULOUSE/ENAC	1406	DME			42Y		MENA	433700N 012200E		(blank)	23/100		100			29
	TOULOUSE/ENAC	1407	ILS	7	111.900			AC	433700N 012200E		25/62.5			62			
	TOULOUSE/ENAC	1408	DME			62X		AC	433700N 012200E		(blank)	40/250		250			37 INSTRUCTION
	VILLACOUBLAY	1428	ILS/DME	27	110.750	44Y		VVO	TRD 484627N 011111E	88	25/62.5	25/100		100			29
	VILLACOUBLAY							TRD	484629N 021259E					100			
	ALL FRANCE	1429	ILS/DME	9	111.350	50Y		VVE	484633N 021137E	268	25/62.5	25/100		100			29
	ALL FRANCE	985	TAC			20Y		ALL	ALL FRANCE(LAND)		(blank)	40/250		250			29
	ALL FRANCE	986	TAC			34X		ALL	ALL FRANCE(LAND)		(blank)	40/250		250			40
	ALL FRANCE	987	TAC			54X		ALL	ALL FRANCE(LAND)		(blank)	40/250		250			40
	ALL FRANCE	990	TAC			98X		KAE	ALL FRANCE(LAND)		(blank)	40/250		250			40
	ALL FRANCE	991	TAC			112Y		ALL	ALL FRANCE(LAND)		(blank)	40/250		250			40
	ALL FRANCE	992	VOR/DME		117.200	119X		ALL	ALL FRANCE(LAND)		40/250	40/250		250	17		37
	ALL FRANCE	4773	VOR/DME		115.050	97Y		LVM	ALL FRANCE(LAND)		100/500	100/500		500	17		37
	ALL FRANCE	4813	VOR		111.850			NVT	ALL FRANCE(LAND)		70/500			500	17		#NAME?
	AGEN/LA GARENNE	976	ILS/DME	29	110.350	40Y		AG	TRD 441018N 003548E	112	25/62.5	23/100		100			29
	AGEN/LA GARENNE	975	VOR/DME		114.800	95X		AGN	@435317N 005222E		120/500	120/500		500	17		36
	AVIGNON	7107	VOR/DME		114.600	93X		AVN	435943N 044447E		100/500	100/500		500	17		37
	TARBES-LAHITTE	6318	VOR		111.800			LMB	@432800N 000106W		60/250			250	17		37
	LE LUC/L'E CANNET	1185	VOR/DME		113.000	77X		LUC	TRD 432258N 001821E		100/250	100/250		250	17		39
	ROANNE/RENAISON	6292	ILS/DME	9	109.300	30X		LC	TRD 432305N 062325E	268	25/62.5	25/100		100			29
	ROANNE/RENAISON	6222	VOR		110.250			ROA	432308N 062253E		60/250			250	17		
	TARBES/IOSSUN-LOURD	1392	ILS/DME	20	109.500	32X		OS	TRD 430952N 000498W	20	25/62.5	25/100		100			29
	TARBES/IOSSUN-LOURD	5985	VOR/DME		113.900	86X		OS	431119N 000001E					100			
	MONT-DE-MARSAN	1247	ILS	27	110.500			MDM	TRD 435437N 003226W	87	25/62.5			62			
	MONT-DE-MARSAN	3498	TAC			24X		MDM	@435436N 003016W		(blank)	200/500		500			40
	MONT-DE-MARSAN	5859	VOR/DME		111.650	53Y		LGH	435439N 002942W		60/250	60/250		250	20		34
	CALVI/STE-CATHERIN	5714	ILS/DME	18	109.500	32X		CLI	TRD 423106N 054735E	0	25/62.5	25/100		100			29
	THIERS	5398	VOR/DME		117.500	122X		TIS	455255N 033131E		60/250	60/250		250	17		37
	LA TOUR-DU-PIN	5227	VOR/DME		115.550	102Y		LTP	452920N 052621E		80/500	80/500		500	17		36
	BIARRITZ/ANGLET	1031	ILS/DME	27	111.350	50Y		BZ	TRD 432806N 013220W	89	25/62.5	23/100		100			29
	BIARRITZ/ANGLET	1032	VOR/DME		114.150	88Y		BTZ	432803N 013047W		100/500	100/500		500	17		37
	MERVILLE	5078	ILS/DME	22	109.350	30Y		MER	TRD 503638N 023758E	37	25/62.5	25/250		250			29
	TOURS	1414	TAC			85X		TUR	503726N 023848E		(blank)	150/500		500			40
	TOURS	27287	VOR		112.250			TST	@472520N 004351E		01-12-1930			30	17		INSTRUCTION AND MAINTENANCE
	AMBOISE	27325	DME		126X			TST	472100N 002800E		(blank)	#####		30			37 INSTRUCTION AND MAINTENANCE
	AMBOISE	4955	VOR/DME		113.700	84X		AMB	@472548N 010352E		120/500	120/500		500	17		36
	COGNAC/CHAT.BERNAR	1105	ILS	23	109.900			CGC	TRD 453846N 001938W	50	25/62.5			62			
	COGNAC/CHAT.BERNAR	1106	VOR/TAC		116.200	109X		CGC	453931N 001815W		100/500	100/500		500	17		40
	LYON/ST-EXUPERY	4883	VOR/DME		114.650	93Y		CNA	453941N 001828W		100/500	100/500		500	17		37
	LYON/ST-EXUPERY	4859	VOR/DME		114.750	94Y		LSE	453954N 001842W		140/500	140/500		500	17		37
	STRASBOURG/ENTZHEIN	4091	ILS/DME	23	109.550	32Y		STZ	@454448N 050636E	49	25/62.5	23/100		100			29
	STRASBOURG/ENTZHEIN	4830	ILS/DME	5	108.550	22Y		ENT	TRD 483234N 073818E	229	25/62.5	25/250		250			29
	GRENOBLE/ST-GEOIRS	4789	ILS/DME	9	109.300	30X		SG	TRD 452146N 052107E	270	25/62.5	25/250		250			29
	MARSEILLE/MIRABEAU	4786	VOR/DME		108.800	25X		MRM	452151N 051847E		100/500	100/500		500	17		37
	CLERMONT-FERRAND	4703	VOR/DME		114.350	90Y		CFM	@432238N 051935E		100/500	100/500		500	17		37
	STRASBOURG/SAVERNE	4691	VOR/DME		110.450	41Y		SAV	454756N 001938W		60/250	60/250		250	17		37
	EPERNON	4678	VOR/DME		115.650	103Y		EPR	484746N 072653E		60/250	60/500		500	17		37
	MELUN	4677	VOR/DME		113.600	83X		MLN	483732N 013924E		40/250	40/250		250	17		37
	BOURSONNE	4676	VOR/DME		114.550	95Y		BSN	482721N 024848E		60/500	60/500		500	17		37
	ABBEVILLE	4648	VOR/DME		108.450	21Y		ABB	500806N 015117E		60/500	60/500		500	17		37
	SAINT-YAN	4550	ILS/DME	33R	111.750	54Y		SN	TRD 462529N 040017E	148	25/62.5	23/100		100			29
	PERPIGNAN/RIVESALT	4544	ILS/DME	33	111.750	54Y		PL	462429N 040103E	148	25/62.5	23/100		100			29
	MONTPELLIER/FREJOR	4105	VOR/DME		114.450	91Y		FJR	TRD 424422N 025233E		80/500	80/500		500	17		37

## COM3- List of national and international assignments in country order

CTY	Location	SAFIRE Ref	Service	Rwy Designator	VHF Channel	DME Channel	MLS Channel	VNE	Co-ordinates	TRD	VHFDOC	DMEDEC	MLSDOC	MaxFL	VHF EIRP	DME EIRP	Remarks
	TOUSSUS-LE-NOBLE	1416	VOR		108.250			TSU	@484513N 020608E		100/500				500	20	
									TRD 484468N 020529E								
		4081	ILS/DME	25R	110.150	38Y		TNO	484517N 020632E	71	25/62.5	25/100		100		29	
	SAINT-DIZIER	1364	TAC			87X		SDI	483813N 045321E		(blank)	40/250		250		40	
									TRD 483830N 045246E								
	DEAUVILLE/ST-GATIE	4079	ILS/DME	29	108.900	26X		SDI	483754N 045436E	113	25/62.5	23/100		100		29	
		1125	VOR		110.200			DVL	481830N 051642E		60/500			500	17		
									TRD 482218N 008080E								
	MONTELMAR	4068	ILS/DME	30R	111.550	52Y		DV	492150N 00943E	117	25/62.5	25/100		100		29	
		4033	VOR/DME		113.650	83Y		MTL	443318N 044648E		100/500	100/500		500	17	37	
									TRD 431921N 032210E								
	BEZIEIS/VIAS	3628	ILS/DME	9	109.350	30Y		ZR	431921N 032048E	274	25/62.5	23/100		100		29	
	LIMOGES/BELLEGARDE	1199	VOR/DME		114.500	92X		LMG	@454857N 010132E		100/500	100/500		500	17	36	
									TRD 455103N 011018E								
		3578	ILS/DME	21	110.100	38X		LG	455210N 011112E	33	25/62.5	23/100		100		29	
									TRD 483411N 055651E								
	NANCY/OCHHEY	1268	ILS	20	108.700			NAY	483526N 055737E	20	25/62.5					62	
		3540	TAC			115X		NAY	@483501N 055707E		(blank)	60/250		250		34	
	DINARD/PLEURTUIT	1134	VOR/DME		114.300	90X		DIN	483510N 020456W		80/500			500	17	36	
									TRD 485051N 014289E								
	CHATEAUROUX	3502	ILS/DME	21	110.300	40X		CX	465222N 014434E	33	25/62.5	25/100		100		29	
		41925	VOR/DME		108.650	23Y		CHX	@465218N 014432E		80/500	200/500		500	17	37	operational 05/2015
	CAGNES-SUR-MER	3342	VOR/DME		109.200	29X		CSG	433843N 070848E		40/250	40/250		250	20	37	
	VIENNE/REVENTIN	1427	VOR		108.200				465328N 045809E		40/250			250		17	
									TRD 481848N 040105E								
	TROYES/BARBEREY	1418	ILS/DME	17	111.150	48Y		TY	481938N 040051E	354	25/62.5	23/100		100		29	
		1419	VOR		116.000			TRO	481904N 035747E		60/500			500	17		
	TOUL	1385	ILS	4	109.300			TUL	TRD 484919N 083050E	216	25/62.5			62			MIL
	STRASBOURG	1387	VOR/DME		115.600	103X		STR	@483019N 073419E		150/500	150/500		500	17	40	
	SAUVETERRE-DE-GUYE	1381	VOR		116.800			SAU	@444037N 000911W		100/500			500	17		
									@431310N 063606E								
	SAINT-TROPEZ	1374	VOR/DME		116.500	112X		STP	431310N 063606E		200/500	200/500		500	17	36	
									TRD 471830N 021003W								
	SAINT-NAZAIRE/MONT	1370	ILS/DME	25	108.500	22X		MT	471856N 020817W	73	25/62.5	25/100		100		29	
									TRD 482240N 010958E								
	ROUEN/BOOS	1351	ILS/DME	22	110.500	42X		RN	482232N 010446E	41	25/62.5	25/100		100		29	
		1353	VOR		116.800			ROU	482756N 011650E		40/250			250	17		
	ROLAMPONT	1349	VOR/DME		117.300	120X		RLP	@475423N 051457E		120/500	120/500		500	17	36	
	ROCHEFORT/ST-AGNAN	1343	ILS	11	108.150			ROC	455600N 010000W		25/62.5			62			INSTR.
									TRD 485531N 010100W								
									455315N 005829W								
	RAMBOUILLET	1344	ILS/DME	30	110.500	42X		ROC	455316N 005829W	123	25/62.5	23/100		100		29	
		1333	VOR/DME		114.700	94X		RBT	@483914N 015939E		110/500	110/500		500	17	36	
	PITHUIERS	1324	VOR		116.500			FTV	@480520N 021553E		100/500			500	17		
	PERPIGNAN	1319	VOR/DME		115.250	109Y		PPG	@424902N 025902E		100/500	100/500		500	17	37	
	MOULINS	1282	VOR/DME		116.700	114X		MOU	464224N 033754E		80/500	80/500		500	17	36	
	MONT D'ARREE	1259	VOR		112.500			ARE	481958N 033609W		60/250			250	17		
	MONTMEDY	1255	VOR		109.400			MMD	@492328N 050728E		100/500			500	17		
	MONTDIDIER	1251	VOR/DME		113.650	83Y		MTD	@489398N 022922E		60/500	60/500		500	17	36	
									TRD 485804N 061400E								
	METZ/NANCY	1242	ILS/DME	22	111.750	54Y		MLY	485918N 061540E	39	25/62.5	25/100		100		29	
	MARTIGUES	1227	VOR/DME		117.300	120X		MTG	@432311N 050513E		200/500	200/500		500	17	36	
									TRD 474653N 062213E								
	LUXEUIL/ST SAUVEUR	1208	ILS	11	108.100			LXI	474723N 062013E	293	25/62.5			62			
		1209	TAC			19X		LXI	474659N 062126E		(blank)	40/250		250		40	
									TRD 503042N 013758E								
	LE TOUQUET/PARIS-P	1191	ILS/DME	14	110.150	38Y		LT	503117N 013652E	313	25/62.5	23/100		100		29	
									TRD 481047N 011246W								
	LA ROCHELLE/LALEU	1170	ILS/DME	27	109.550	32Y		RL	461041N 011128W	92	25/62.5	25/100		100		29	
	L'AIGLE	1167	VOR/DME		112.700	74X		LGL	@484726N 003149E		60/500	200/500		500	17	37	
	GAILLAC/CASTELNAU	1153	VOR		115.800			GAI	@433571N 014927E		100/500			500	17		
									TRD 412942N 090505E								
	FIGARI-SUD CORSE	1149	ILS/DME	23	110.500	42X		GR	413032N 090616E	48	25/62.5	23/100		100		29	
		1150	VOR/DME		116.700	114X		FGI	413008N 090500E		40/250	40/250		250	17	37	
									491424N 054037E								
	ETAIN/ROUVRES	1144	ILS/DME	2	110.500	42X		MCY	491308N 054015E		25/62.5	25/100		100		29	
	DIGNE	1138	VOR		113.850			DGN	@435929N 060603E		150/500			500	17		
	DIEPPE	1127	VOR		115.800			DPE	495531N 011014E		40/500			500	17		
	COULOMMIERS/VOISIN	1116	VOR/DME		112.900	76X		CLM	485814N 030806E		60/500	60/500		500	17	37	
									TRD 454704N 030848E								
	CLERMONT-FERRAND/A	1103	ILS/DME	26	111.100	48X		CF	454722N 031100E	82	25/62.5	23/100		100		29	
									TRD 493909N 012925W								
	CHERBOURG/NAUPERTU	1099	ILS/DME	28	110.550	42Y		MP	493951N 012728W	101	25/62.5	25/100		100		29	
	CHATILLON-SUR-MARNE	1096	VOR/DME		117.600	123X		CTL	@480516N 035444E		100/500	100/500		500	17	37	
	CHARTRES/LA LOUPE	1088	VOR/DME		115.200	99X		CHW	@482848N 005913E		180/500	180/500		500	17	36	
	CHAMBERY/ALPES NOR	1084	VOR/DME		115.400	101X		CBY	452558N 054528E		80/500	80/500		500	17	36	
									TRD 453739N 055252E								
	CHAMBERY/AIX-LES-B	1083	ILS/DME	18	109.500	32X		CY	453368N 055252E	357	25/62.5	23/100		100		29	
									TRD 433252N 021755E								
	CASTRES/MAZAMET	1071	ILS/DME	14	111.350	50Y		EN	433388N 021710E	321	25/62.5	23/100		100		29	
	CANNES/TANNERON	1066	VOR		111.400			CNM	@433337N 065215E		80/500			500	17		
	BRAY-S																

COM3- List of national and international assignments in country order

CTY	Location	SAFIRE Ref	Service	Rwy Designator	VHF Channel	DME Channel	MLS Channel	Id	Co-ordinates	TRD	VHFDOC	DMEDOC	MLSDOC	MaxFL	VHF EIRP	DME EIRP	Remarks
F	ANGOULEME/BRIE-CHAMPNIERS	3632	ILS/DME	28	109.350	30Y		AM	TRD 454350N 001219E 454347N 001333E	97	25/62.5	23/100		100		29	
		4220	ILS/DME	2	110.300	40X		AC	TRD 415558N 094623E 415449N 094753E	205	25/62.5	25/100		100		29	
		64685	VOR		115.900			BVS	492611N 020912E		40/250			250	17		
FIN	ENONTEKIO	4082	ILS/DME	20	110.550	42Y		TS	TRD 472505N 004319E 472529N 004045E	15	25/62.5	25/100		100		29	
		4869	ILS/DME	21	111.300	50X		ET	TRD 682110N 232421E 682206N 232554E	35	25/62.5	25/100		100		27	
FIN	HALLI	1437	ILS	26	109.900			HA	TRD 615118N 244523E 615120N 244620E	86	25/62.5				62		
		1439	VOR/DME		115.200	99X		HAL	615117N 244809E		60/500	60/500		500	17	37	
FIN	HELSINKI-VANTAA	30129	DME			36X		HA	615120N 244820E		(blank)	100/500		500		37	
		1440	VOR/DME		114.200	89X		HEL	602016N 245713E TRD 601839N 245338E		60/500	60/500		500	17	37	
FIN	HELSINKI-VANTAA	5055	ILS/DME	22R	110.700	44X		HUO	601948N 245617E	48	25/62.5	25/100		100		39	
		5404	ILS/DME	04R	111.500	52X		HG	TRD 601955N 245854E 601850N 245620E	228	25/62.5	25/100		100		27	
FIN	HELSINKI-VANTAA	5620	ILS/DME	15	109.100	28X		HL	TRD 601820N 245923E 601942N 245809E	333	25/62.5	25/100		100		30	
		6634	ILS/DME	22L	110.300	40X		HK	TRD 601828N 245542E 601947N 245825E	48	25/62.5	25/100		100		27	
FIN	HELSINKI-VANTAA	6635	ILS/DME	04L	111.900	56X		HV	602000N 245655E		25/62.5	40/150		150		36	
		5406	ILS/DME	22	109.900	36X		IV	TRD 683852N 272240E 683649N 272511E	47	25/62.5	25/100		100		27	
FIN	JOENSUU	1455	VOR/DME		115.700	104X		JNS	623938N 293638E		100/250	100/250		250	17	37	
		5626	ILS/DME	28	109.500	32X		JO	TRD 623956N 293529E 623924N 293515E	110	25/62.5	25/100		100		27	
FIN	JYVASKYLA KAJAANI	5255	ILS/DME	30	110.900	46X		JY	622333N 254128E		25/62.5	40/150		150		36	
		1461	VOR/DME		114.900	96X		KNI	641657N 273921E TRD 641717N 274325E		60/500	60/500		500	17	37	
FIN	KAUHAVA	5189	ILS/DME	7	109.900	36X		KI	641706N 274021E 630645N 230312E	260	25/62.5	25/100		100		27	
		1463	ILS	17	109.700			KA	630811N 230310E		25/62.5				62		
FIN	KITTLA	5621	ILS/DME	34	111.900	56X		KT	TRD 674252N 245017E 674136N 245057E	166	25/62.5	25/100		100		27	
		5622	ILS/DME	16	111.900	56X		HOU	TRD 674136N 245057E 674136N 245057E	346	25/62.5	25/100		100		27	
FIN	KRUUNUPYY KUOPIO	5618	ILS/DME	19	109.300	30X		KK	TRD 634258N 230913E 634338N 230938E	11	25/62.5	25/100		100		27	
		1473	VOR/DME		113.000	77X		VEH	625847N 274880E		60/500	60/500		500	17	37	
FIN	KUUSAMO	5625	ILS/DME	33	110.300	40X		KU	TRD 630157N 274627E 625954N 274830E	157	25/62.5	25/100		100		27	
		1477	VOR/DME		114.400	91X		KLA	655930N 291409E		60/500	60/500		500	17	37	
FIN	LAPPEENRANTA	6636	ILS/DME	12	110.300	40X		KO	TRD 655942N 291553E 655932N 291322E	312	25/62.5	25/100		100		27	
		1480	VOR/DME		112.500	72X		VIL	610220N 280701E		60/500	60/500		500	17	37	
FIN	MARIEHAMN	5981	ILS/DME	6	109.900	36X		LP	TRD 610232N 280741E 610232N 280741E	247	25/62.5	25/100		100		27	
		1483	VOR/DME		114.700	94X		MAR	600828N 195452E		60/500	60/500		500	17	37	
FIN	MIKKELI OULU	6637	ILS/DME	21	108.900	26X		SD	TRD 600648N 195324E 600740N 195402E	23	25/62.5	25/100		100		27	
		1486	ILS	11	109.500			MI	614114N 271138E	293	25/62.5				62		
FIN	PORI	1490	VOR/DME		113.300	80X		OLK	645954N 252133E		60/500	60/500		500	17	35	
		5256	ILS/DME	12	109.500	32X		OU	TRD 645601N 252009E 612753N 214745E	301	25/62.5	25/100		100		27	
FIN	ROVANIEMI	1493	VOR/DME		113.200	79X		PRI	612753N 214745E		60/500	60/500		500	17	37	
		35445	ILS/DME	30	108.100	18X		PO	TRD 612910N 214637E 612730N 214621E	126	25/62.5	40/150		150	19	30	
FIN	SAVONLINNA	1497	VOR/DME		117.700	124X		ROI	683345N 254913E		60/500	60/500		500	17	37	
		5608	ILS/DME	21	111.700	54X		RO	TRD 663306N 254818E 663428N 255043E	37	25/62.5	25/100		100		27	
FIN	SEINAJOKI UTTI	3567	VOR/DME		117.900	126X		SVL	615710N 255451E		60/500	60/500		500	17	37	
		33785	ILS/DME	12	111.100	48X		SA	TRD 615608N 265802E 615647N 265553E	306	25/62.5	40/150		150	21	36	
FIN	ALL FINLAND	1450	ILS	32	111.500			IL	TRD 624153N 224911E 624107N 225035E	136	25/62.5				62		
		1509	VOR/DME		114.600	93X		UTT	605350N 255456E TRD 605338N 265496E		100/500	100/500		500	17	35	
FIN	ALL FINLAND	33770	ILS/DME	25	110.500	42X		UTT	605348N 265703E	78	25/62.5	40/150		150	19	36	
		1433	VOR		117.050				ALL FINLAND(LAND)		100/500			500	17		MOBILE
FIN	ALL FINLAND	6207	DME			82Y			ALL FINLAND(LAND)		(blank)	60/500		500			MOBILE
		6208	DME			98Y			ALL FINLAND(LAND)		(blank)	60/500		500			MOBILE
FIN	ALL FINLAND	6209	DME			108Y			ALL FINLAND(LAND)		(blank)	60/500		500			MOBILE
		6212	DME			88Y			ALL FINLAND(LAND)		(blank)	60/500		500			MOBILE
FIN	ALL FINLAND	6286	DME			53Y			ALL FINLAND(LAND)		(blank)	60/500		500			MOBILE
		6287	DME			94Y			ALL FINLAND(LAND)		(blank)	60/500		500			MOBILE
FIN	ALL FINLAND	6288	DME			104Y			ALL FINLAND(LAND)		(blank)	60/500		500			MOBILE
		7124	TAC			51Y			ALL FINLAND(LAND)		(blank)	60/500		500			MOBILE
FIN	ALL FINLAND	36746	TAC			51Y		FINN	ALL FINLAND(LAND)		(blank)	60/500		500			Governmental user; A/A use
		36738	TAC			53Y		FINM	ALL FINLAND(LAND)		(blank)	60/500		500			Governmental user; A/A use
FIN	ALL FINLAND	36737	TAC			63Y		FINK	ALL FINLAND(LAND)		(blank)	60/500		500			Governmental user; A/A use
		36736	TAC			61Y		FINJ	ALL FINLAND(LAND)		(blank)	60/500		500			Governmental user; A/A use
FIN	ALL FINLAND	36735	TAC			59Y		FINI	ALL FINLAND(LAND)		(blank)	60/500		500			Governmental user; A/A use
		36734	TAC			55Y		FINH	ALL FINLAND(LAND)		(blank)	60/500		500			Governmental user; A/A use
FIN	ALL FINLAND	36732	TAC			47Y		FING	ALL FINLAND(LAND)		(blank)	60/500		500			Governmental user; A/A use
		36731	TAC			45Y		FINF	ALL FINLAND(LAND)		(blank)	60/500		500			Governmental user; A/A use
FIN	ALL FINLAND	36730	TAC			37Y		FINE	ALL FINLAND(LAND)		(blank)	60/500		500			Governmental user; A/A use
		36729	TAC			35Y		FIND	ALL FINLAND(LAND)		(blank)	60/500		500			Governmental user; A/A use
FIN	ALL FINLAND	36728	TAC			29Y		FINC	ALL FINLAND(LAND)		(blank)	60/500		500			Governmental user; A/A use

COM3- List of national and international assignments in country order

CTY	Location	SAFIRE Ref	Service	Rwy Designator	VHF Channel	DME Channel	MLS Channel	Id	Co-ordinates	TRD	VHFDOC	DMEDOC	MLSDOC	MaxFL	VHF EIRP	DME EIRP	Remarks
		36727	TAC			17Y		FINB	ALL FINLAND(LAND)		(blank)	60/500		500			16 Governmental user; A/A use
		36726	TAC			15Y		FINA	ALL FINLAND(LAND)		(blank)	60/500		500			16 Governmental user; A/A use
		69295	TAC			68Y		FION	ALL FINLAND(LAND)		(blank)	60/500		500			16 Governmental user; A/A use
		69294	TAC			68X		FIOM	ALL FINLAND(LAND)		(blank)	60/500		500			16 Governmental user; A/A use
		69293	TAC			66Y		FIOI	ALL FINLAND(LAND)		(blank)	60/500		500			16 Governmental user; A/A use
		69292	TAC			66X		FIOH	ALL FINLAND(LAND)		(blank)	60/500		500			16 Governmental user; A/A use
		69291	TAC			65Y		FIOG	ALL FINLAND(LAND)		(blank)	60/500		500			16 Governmental user; A/A use
		69290	TAC			65X		FIOF	ALL FINLAND(LAND)		(blank)	60/500		500			16 Governmental user; A/A use
		69289	TAC			64Y		FIOE	ALL FINLAND(LAND)		(blank)	60/500		500			16 Governmental user; A/A use
		69288	TAC			69Y		FIOF	ALL FINLAND(LAND)		(blank)	60/500		500			16 Governmental user; A/A use
		69287	TAC			69X		FIOO	ALL FINLAND(LAND)		(blank)	60/500		500			16 Governmental user; A/A use
		69286	TAC			64X		FIOB	ALL FINLAND(LAND)		(blank)	60/500		500			16 Governmental user; A/A use
		67823	TAC			16Y		FIOD	ALL FINLAND(LAND)		(blank)	60/500		500			16 Governmental user; A/A use
		67821	TAC			62Y		FIOK	ALL FINLAND(LAND)		(blank)	60/500		500			16 Governmental user; A/A use
		67820	TAC			62X		FIOJ	ALL FINLAND(LAND)		(blank)	60/500		500			16 Governmental user; A/A use
		67814	TAC			16X		FIOC	ALL FINLAND(LAND)		(blank)	60/500		500			16 Governmental user; A/A use
		67812	TAC			21X		FINW	ALL FINLAND(LAND)		(blank)	60/500		500			16 Governmental user; A/A use
		67811	TAC			19Y		FINV	ALL FINLAND(LAND)		(blank)	60/500		500			16 Governmental user; A/A use
		67810	TAC			19X		FINU	ALL FINLAND(LAND)		(blank)	60/500		500			16 Governmental user; A/A use
		67808	TAC			31Y		FIOA	ALL FINLAND(LAND)		(blank)	60/500		500			16 Governmental user; A/A use
		67806	TAC			31X		FINZ	ALL FINLAND(LAND)		(blank)	60/500		500			16 Governmental user; A/A use
		66246	TAC			21Y		FINS	ALL FINLAND(LAND)		(blank)	60/500		500			16 Governmental user; A/A use
		66167	TAC			63X		FINQ	ALL FINLAND(LAND)		(blank)	60/500		500			16 Governmental user; A/A use
		66166	TAC			61X		FINP	ALL FINLAND(LAND)		(blank)	60/500		500			16 Governmental user; A/A use
		66165	TAC			15X		FINO	ALL FINLAND(LAND)		(blank)	60/500		500			16 Governmental user; A/A use
	TURKU	1504	VOR/DME			115.500	102X	RUS	603055N 221524E		60/500	60/500		500	17	37	
		5606	ILS/DME		26	109.500	32X	TRD	603048N 221409E					100		27	
								TRD	603058N 221409E		85	25/62.5	25/100				
	KEMI	5188	ILS/DME		18	110.900	46X	KE	654724N 243441E		8	25/62.5	25/100		100		37
	SANTAHAMINA	5085	DME				122X	KAD	600949N 250452E		(blank)	100/500		500		37	
	VAASA	1510	VOR/DME			114.500	92X	VAS	630229N 214544E		60/500	60/500		500	17	37	
								TRD	630214N 214618E								
		5057	ILS/DME		16	108.500	22X	VA	630335N 214531E		343	25/62.5	40/150		150		36 DME Tx antenna height 9 -> 22 m.
	ORIMATTILA	4563	VOR/DME			117.300	120X	ORM	605001N 245444E		60/500	60/500		500	17	37	DVOR
	VHITI	1515	DME				117X	VTI	602733N 243436E		(blank)	60/500		500			37
	TAMPERE-PIRKkala	1503	VOR/DME			116.200	109X	PIR	612500N 233600E		60/500	60/500		500	17	37	
								TRD	612424N 233419E								
		39869	ILS/DME		24	110.100	38X	TP	612502N 233723E		64	25/62.5	100/450		450	20	39
	PORVOO	1494	VOR/DME			112.800	75X	PVO	601740N 233519E		60/500	60/500		500	17	37	
	LUJONET	1462	VOR/DME			112.300	70X	LNE	623515N 243240E		60/500	60/500		500	17	37	
	KAUNIS	1465	VOR/DME			115.800	105X	KNS	682714N 272705E		100/500	100/500		500	17	37	
	ANTON	1434	DME				84X	ANT	605147N 250737E		(blank)	60/500		500			37
	ABERDEEN	1518	VOR/DME			114.300	90X	ADN	@571838N 021602W		200/500	200/500		500	23	39	
								TRD	571248N 021223W								
	ABERDEEN/DYCE	6238	ILS/DME		34	109.900	36X	IABD	571152N 021133W		158	25/62.5	25/100		100		29
								TRD	571125N 021121W								
		6559	ILS/DME		16	109.900	36X	IAX	571229N 021159W		338	25/62.5	25/100		100		29
								TRD	571204N 021202W								
	BELFAST CITY	7313	ILS/DME		4	108.100	18X	IHBD	543736N 055144W		215	25/62.5	15/100		100		32
								TRD	543654N 055244W								
		7314	ILS/DME		22	108.100	18X	IBFH	543710N 055230W		35	25/62.5	15/100		100		32
								TRD	543828N 061309W								
	BELFAST/LDERGROVE	6241	ILS/DME		17	110.900	46X	IFT	543919N 061345W		342	25/62.5	15/100		100		29
		6280	ILS/DME		25	109.900	36X	IAG	543903N 061427W		65	25/62.5	25/100		100		29
								TRD	543938N 061201W								
	BENBECULA	3352	ILS/DME		6	108.100	18X	IBCL	572900N 072300W			25/62.5	25/100		100		27
								TRD	572830N 072213W								
		3353	ILS/DME		24	108.100	18X	IBUC	572830N 072213W			25/62.5	25/100		100		27
		4290	VOR/DME			113.950	86Y	BEN	@572841N 072155W		200/500	200/500		500	17	39	
	BENSON	4796	TAC				37X	BSO	513717N 010554W		(blank)	50/250		250			28 MIL; Project Marsha
								TRD	513700N 010500W								
		5949	ILS/DME		19	110.950	46Y	IBO	Alt=57		7	25/62.5	25/100		100		27 MIL
								TRD	511924N 000136E								
	BIGGIN HILL	1558	ILS/DME		21	109.350	30Y	IBGH	512013N 000209E		26	25/62.5	25/100		100		27
		1559	VOR/DME			115.100	98X	BIG	@511951N 000205E			125/500	125/500		500	17	39
								TRD	522800N 014544W								
	BIRMINGHAM/BIRMINGHAM	1563	ILS/DME		33	110.100	38X	IBM	522652N 014438W		146	25/62.5	25/100		100		27
								TRD	522714N 014500W								
		1564	ILS/DME		15	110.100	38X	IBIR	522714N 014506W		326	25/62.5	25/100		100		27
	BLACKBUSHE	1565	DME				109X	BLC	511924N 005042W		(blank)	50/300		300			29
	BOSCOMBE DOWN	1568	TAC				19X	BDN	510856N 014510W		(blank)	200/600		600			38 MIL; Project Marshal
		6048	ILS/DME		23	109.100	28X	IBOD	TRD 510900N 014500W		50	25/62.5	25/100		100		27 MIL
								TRD	Alt=111								
								TRD	504638N 015134W								
	BOURNEMOUTH/HURN	1572	ILS/DME		26	110.500	42X	IBH	504656N 015028W		75	25/62.5	25/100		100		27
								TRD	504700N 014921W								
		1573	ILS/DME		8	110.500	42X	IBMH	504841N 015050W		255	25/62.5	25/100		100		27
								TRD	504656N 015029W								
								TRD	512255N 024411W								
								TRD	512254N 024240W								
	BRISTOL/LULSGATE	1579	ILS/DME		27	110.150	38Y	IBTS	512254N 024312W		86	25/62.5	25/100		100		27
								TRD	512300N 024202W								
								TRD	512300N 024345W								
		1580	ILS/DME		9	110.150	38Y	IBON	512254N 024312W		266	25/62.5	25/100		100		27

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CTY	Location	SAFIRE Ref	Service	Rwy Designator	VHF Channel	DME Channel	MLS Channel	Id	Co-ordinates	TRD	VHFDOC	DMEDOC	MLSDOC	MaxFL	VHF EIRP	DME EIRP	Remarks
	BRIZE NORTON	1585	TAC				56X	BZN	514454N 013613W TRD 514459N 013501W		(blank)	100/600		600			38 MIL; Project Marshal
		6040	ILS/DME	26	108.550	22Y		IBZB	Alt=75 TRD 514459N 013501W	73	25/62.5	25/100		100			27 MIL
		6041	ILS/DME	8	108.550	22Y		IBZA	Alt=87 TRD 521156N 00947E 521226N 001055E 521226N 001054E	253	25/62.5	25/100		100			27 MIL
	CAMBRIDGE	4625	ILS/DME	23	111.300	50X		ICMG	TRD 512407N 032137W 512332N 032005W 512356N 032026W	50	25/62.5	25/100		100			27
	CARDIFF/CARDIFF	1593	ILS/DME	30	110.700	44X		ICWA	TRD 512328N 031935W 512401N 032103W	117	25/62.5	25/100		100			27
		1594	ILS/DME	12	110.700	44X		ICDF	512356N 032026W	297	25/62.5	25/100		100			27
	CARLISLE	6416	DME			44X		CO	545624N 024819W		(blank)	15/100		100			27
	CLACTON	1604	VOR/DME		114.550	92Y		CLN	@515054N 010851E TRD 520346N 003734W 520432N 003640W		150/500	150/500		500	17		39
	CRANFIELD	6312	ILS/DME	21	108.900	26X		ICR	520425N 003703W	32	25/62.5	25/100		100			27
	CRANWELL	1625	TAC			121X		CWZ	530138N 002918W		(blank)	65/100		100			28 MIL; Project Marshal
	CULDROSE	5947	ILS/DME	26	108.500	22X		ICW	TRD 530200N 003000W	82	25/62.5	25/100		100			27 MIL
		6611	ILS/DME	30	109.750	34Y		ICUL	TRD 500500N 005160W TRD 562708N 030043W 562712N 030153W 562706N 030323W	112	25/62.5	25/100		100			27 MIL
	DUNDEE	5073	ILS/DME	9	108.100	18X		IDDE	TRD 543002N 012644W 543048N 012506W	270	25/62.5	15/50		62			29
	DURHAM TEES VALLEY	1847	ILS/DME	23	108.500	22X		ITD	543030N 012541W TRD 543154N 012447W 543017N 012626W	47	25/62.5	25/100		100			27
		3416	ILS/DME	5	108.500	22X		ITSE	543030N 012541W TRD 524953N 011807W 524956N 012031W 524956N 011940W	228	25/62.5	25/100		100			27
	EAST MIDLANDS	1638	ILS/DME	9	109.350	30Y		IEMW	TRD 524950N 012123W 524956N 011847W	88	25/62.5	25/100		100			27
		1639	ILS/DME	27	109.350	30Y		IEME	TRD 504354N 032589W 504413N 032418W	88	25/62.5	25/100		100			27
	EXETER	1646	ILS/DME	26	109.900	36X		IDR	504407N 032452W TRD 504413N 032349W 504353N 032322W	76	25/62.5	25/100		100			27
		3379	ILS/DME	8	109.900	36X		IET	504407N 032452W TRD 514100N 014700W	256	25/62.5	25/100		100			27
	FAIRFORD	1647	ILS	27	111.100			IFFA	Alt=91 TRD 514100N 014700W	88	25/62.5			62			MIL
		1648	ILS	9	111.100			IFFB	Alt=91	268	25/62.5			62			MIL
		1649	TAC			81X		FFA	514055N 014751W TRD 511610N 004745W 511641N 004625W		(blank)	40/250		250			26 MIL
	FARNBOROUGH	6252	ILS/DME	24	111.550	52Y		IFNB	511636N 004641W TRD 511656N 004524W	62	25/62.5	25/100		100			29
		6253	ILS/DME	6	111.550	52Y		IFRG	511630N 004656W 511636N 004641W	242	25/62.5	25/100		100			29
	GAMSTON	1655	VOR/DME		112.800	75X		GAM	531653N 005659W		80/250	80/250		250	20		37
	GLASGOW	1658	VOR/DME		115.400	101X		GOW	@555214N 042645W TRD 555251N 042459W 555200N 042649W 555211N 042602W		300/500	300/500		500	17		39
	GLASGOW/GLASGOW	1661	ILS/DME	5	110.100	38X		IUU	TRD 555138N 042716W 555238N 042537W	226	25/62.5	25/100		100			29
		6557	ILS/DME	23	110.100	38X		IJO	555211N 042602W	46	25/62.5	25/100		100			29
	GUERNSEY	1667	VOR/DME		109.400	31X		GUR	@492614N 023614W TRD 492607N 023524W 492609N 023635W		80/500	80/500		500	20		39 Corrected DME power level to match actual EIRP
		5400	ILS/DME	9	108.100	18X		IUY	TRD 492610N 023613W 492610N 023551W	268	25/62.5	25/100		100			27
		5401	ILS/DME	27	108.100	18X		IGH	492610N 023613W	88	25/62.5	25/100		100			27
	HAVERFORDWEST	4142	DME			114Y		HDW	514955N 045812W TRD 531012N 023922W		(blank)	50/100		100			27
		3585	ILS/DME	22	110.350	40Y		IHDN	531055N 025831W 531044N 025844W	41	25/62.5	25/100		100			27
		5206	ILS/DME	4	110.350	40Y		IHWD	TRD 531044N 025845W 531033N 025902W 531044N 025844W	221	25/62.5	25/100		100			27
	HUMBERSIDE	1679	ILS/DME	20	108.750	24Y		IHS	TRD 533346N 002132W 533443N 002044W 533426N 002113W	22	25/62.5	25/100		100			27
	INVERNESS/INVERNESS	1683	VOR/DME		109.200	29X		INS	573233N 040246W TRD 573303N 040145W 573218N 040312W		60/250	60/250		250	17		39
		6894	ILS/DME	5	108.500	22X		ILN	TRD 573230N 040246W 573230N 040345W 573243N 040218W	230	25/62.5	15/100		100			27
		6895	ILS/DME	23	108.500	22X		IDX	573230N 040246W	50	25/62.5	15/100		100			27
	ISLAY	1684	DME			36Y		ISY	554059N 061458W		(blank)	20/50		50			27
	ISLE OF MAN/RONALDSWAY	1685	VOR/DME		112.200	59X		ICM	@540404N 045449W TRD 540452N 043826W 540500N 043659W		75/500	160/500		500	20		39 Sector change
		4718	ILS/DME	26	111.150	48Y		IRY	540452N 043722W	78	25/62.5	25/100		100			27

COM3- List of national and international assignments in country order

CTY	Location	SAFIRE Ref	Service	Rwy Designator	VHF Channel	DME Channel	MLS Channel	Id	Co-ordinates	TRD	VHFDOC	DMEDOC	MLSDOC	MaxFL	VHF EIRP	DME EIRP	Remarks
									TRD 540458N 043712W 540453N 043748W								
	ISLE OF MAN/RONALDSWAY	4719	ILS/DME	8	111.150	48Y		IRH	540452N 043722W	258	25/62.5	25/100		100		27	
		73105	DME			59X		IOM	@540410N 044549W		(blank)	160/180		180		39	
	JERSEY	1690	VOR/DME		112.200	59X		JSY	@491316N 020246W		60/500	60/600		600	17	39	
	JERSEY/JERSEY	6269	ILS/DME	9	110.900	46X		IJJ	TRD 491234N 021043W 491230N 021297W	263	25/62.5	25/100		100		27	
		6270	ILS/DME	27	110.300	40X		IDD	491234N 021121W	82	25/62.5	25/100		100		27	
	KIRKWALL	1700	VOR/DME		108.600	23X		KWL	585735N 028338W		25/100	25/100		100	17	29	
									TRD 585730N 028302W 585724N 028423W								
		5108	ILS/DME	9	110.100	38X		IORK	585732N 028357W	267	25/62.5	15/100		100		24	
									TRD 585728N 028452W 585733N 028335W								
		5109	ILS/DME	27	110.100	38X		IKIR	585732N 028357W	87	25/62.5	15/100		100		24	
	LAKENHEATH	1704	ILS	24	109.900			ILKH	TRD 522400N 003300E Alt=18	56	25/62.5			62		MIL	
		1706	TAC			39X		LKH	522423N 003325E Alt=27 (blank)			60/250		250		40 MIL	
									TRD 522400N 003300E								
	LANDS END	6272	ILS	6	109.900			ILAK	Alt=17	236	25/62.5			62		MIL	
		1710	VOR/DME		114.200	89X		LND	500811N 053813W		200/500	200/500		500	20	39	
									TRD 535228N 014025W 535147N 013914W								
	LEEDS & BRADFORD	1713	ILS/DME	32	110.900	46X		ILF	535201N 013931W	138	25/62.5	25/100		100		27	
									TRD 535129N 013855W 535209N 014002W								
	LEEMING	1714	ILS/DME	14	110.900	46X		ILBF	535201N 013931W	318	25/62.5	25/100		100		27	
		4761	TAC			73X		LEE	541703N 013131W		(blank)	100/250		250		38 MIL	
		6317	ILS/DME	16	110.300	40X		ILI	TRD 541800N 013200W	335	25/62.5	25/100		100		27 MIL	
	LEUCHARS	1719	TAC			42X		LUK	562222N 025149W		(blank)	100/500		500		37 MIL	
		6069	ILS/DME	27	108.550	22Y		ILU	TRD 562220N 025209W	81	25/62.5	25/100		100		27 MIL	
	LINTON-ON-OUSE	4127	TAC			27X		LOO	540301N 011456W		(blank)	50/250		250		40 MIL	
		6044	ILS/DME	21	108.550	22Y		ILTU	TRD 540300N 011500W	31	25/62.5	25/100		100		27 MIL	
		6045	ILS/DME	3	108.550	22Y		ILNO	TRD 540300N 011500W	211	25/62.5	25/100		100		27 MIL	
	LONDON	1731	VOR/DME		113.600	83X		LON	@512914N 002600W TRD 510841N 001253W		100/500	100/500		500	23	39 En-route Nav	
									510855N 001033W								
	LONDON/GATWICK	1735	ILS/DME	26L	110.900	46X		IWW	510850N 001120W	78	25/62.5	25/100		100		27	
									TRD 510807N 000949W 510843N 001207W								
		1736	ILS/DME	8	110.900	46X		IGG	510850N 001120W	258	25/62.5	25/100		100		27	
	LONDON/HEATHROW	1741	ILS/DME	27L	109.500	32X		ILL	TRD 512753N 002928W 512749N 002620W	90	25/62.5	25/100		100		29	
									512750N 002731W TRD 512754N 002541W								
		1742	ILS/DME	09R	109.500	32X		IBB	512749N 002841W 512750N 002731W	270	25/62.5	25/100		100		29	
									TRD 512839N 002937W 512844N 002617W								
		1744	ILS/DME	27R	110.300	40X		IRR	512844N 002733W TRD 512840N 002537W	90	25/62.5	25/100		100		29	
									512843N 002850W								
		1745	ILS/DME	09L	110.300	40X		IAA	512844N 002733W	270	25/62.5	25/100		100		29	
		69185	DME			70X		HRW	512839N 002741W		(blank)	40/100		100		39 New DME	
		67406	ILS/DME	27	110.550	42Y		INW	TRD 512912N 002913W	88	25/62.5	25/100		100		29 3rd Runway	
		67405	ILS/DME	9	110.550	42Y		IZZ	TRD 512912N 002913W TRD 516352N 001514E	268	25/62.5	25/100		100		29 3rd Runway	
	LONDON/STANSTED	1751	ILS/DME	4	110.500	42X		ISED	515248N 001329E 515313N 001406E	223	25/62.5	25/100		100		29	
									TRD 515221N 001238E 515338N 001444E								
		1752	ILS/DME	22	110.500	42X		ISX	515313N 001406E	43	25/62.5	25/100		100		29	
	LOSSIEMOUTH	6043	ILS/DME	23	111.550	52Y		ILOS	TRD 574300N 032000W	43	25/62.5	25/100		100		27 MIL	
		29045	TAC			50X		LSM	574237N 031939W 574230N 031941W		(blank)	100/250		250		28 MIL: Project Marshall	
									TRD 515239N 002105W 515218N 002248W								
	LUTON	1757	ILS/DME	8	109.150	28Y		ILTN	515239N 002209W TRD 515217N 002312W	254	25/62.5	25/100		100		27	
									515232N 002127W 515223N 002209W								
	LYDD/LYDD	5712	ILS/DME	21	108.150	18Y		ILJ	TRD 505748N 006622E	74	25/62.5	25/100		100		27	
	MANCHESTER	5496	VOR/DME		113.500	82Y		MCT	505736N 006628E 532125N 021544W	33	25/62.5	25/100		500	17	39 En-route Nav	
	MANCHESTER/MANCHESTER								TRD 532027N 021806W 532111N 021544W								
		6812	ILS/DME	23R	109.500	32X		INN	532111N 021623W	51	25/62.5	25/100		100		29	
									TRD 532150N 021514W 532054N 021700W								
		6813	ILS/DME	05L	109.500	32X		IMM	532111N 021623W TRD 532105N 021613W	231	25/62.5	25/100		100		29	
									531958N 021821W								
	MARHAM	6815	ILS/DME	05R	111.550	52Y		IMC	531958N 021821W	231	25/62.5	25/100		100		29	
		4641	TAC			24X		MAM	523849N 003335E Alt=20 (blank)			100/250		250		38 MIL: Project Marshall	
		5905	ILS/DME	24	110.750	44Y		IMR	TRD 523900N 003300E Alt=21	55	25/62.5	25/100		100		27 MIL	
	MILDENHALL	1781	TAC			106X		MLD	522148N 002918E Alt=19		(blank)	150/400		400		37 MIL	
		4747	ILS	11	110.150			IML	522100N 003100E		(blank)	25/62.5		62		MIL	
		4748	ILS	29	110.150			IMLD	522200N 003600E		(blank)	25/62.5		62		MIL	
	NEWCASTLE	6396	DME			89Y		NEW	560218N 014154W		(blank)	200/500		500		39	

COM3- List of national and international assignments in country order

CTY	Location	SaFire Ref	Service	Rwy Designator	VHF Channel	DME Channel	MLS Channel	Id	Co-ordinates	TRD	VHFDC	DMEDOC	MLSDOC	MaxFL	VHF EIRP	DME EIRP	Remarks
									TRD 513259N 002558W 513313N 002439W								
	NORTHOLT	6560	ILS/DME	25	108.500	22X		INHT	513313N 002440W	70	25/62.5	25/100		100			27 MIL
		6612	ILS/DME	7	108.500	22X		INOL	TRD 513300N 002500W	249	25/62.5	25/100		100			27 MIL
									TRD 524033N 011554E 524038N 011731E								
	NORWICH	1795	ILS/DME	27	110.900	46X		INH	524038N 011539E	89	25/62.5	25/100		100			27
	OBAN	5564	DME			42Y		OBA	562739N 052408W		(blank)	25/100		100			27
	ODIHAM	1798	TAC			33X		ODH	511409N 005634W		(blank)	50/250		250			28 MIL; Project Marshal
									TRD 511400N 005700W Alt=121								
	PERTH/PERTH	6070	ILS/DME	27	109.550	32Y		IODH	562633N 032207W	91	25/62.5	25/100		100			27 MIL
		1801	VOR		110.400			PTH	TRD 563000N 043403W 563052N 043622W 563028N 043538W					500	17		
	PRESTWICK	1810	ILS/DME	12	110.300	40X		IPP	TRD 563102N 043701W 563018N 043441W	301	25/62.5	25/100		100			27
		1811	ILS/DME	31	110.300	40X		IKK	563028N 043538W	121	25/62.5	25/100		100			27
									TRD 602600N 011800W 602500N 011700W								
	SCATSTA	6970	ILS/DME	24	110.150	38Y		ISCA	602600N 011801W	55	25/62.5	25/100		100			29 LLZ Only
	SHAWBURY	4120	VOR/DME		116.800	115X		SWB	524752N 023844W		100/500	100/500		500	17		37 MIL
		6046	ILS/DME	18	110.750	44Y		ISHY	TRD 524800N 024000W	359	25/62.5	25/100		100			27 MIL
	SHOREHAM	1820	DME			36Y		SRH	505010N 001737W		(blank) #####	55		55			24
	SOUTHAMPTON	1821	VOR/DME		113.350	80Y		SAM	@505719N 012042W		150/500	150/500		500	17		39
		3343	ILS/DME	2	110.750	44Y		ISU	505700N 012100W		25/62.5	25/100		100			27
									TRD 505631N 012141W 505719N 012122W								
		3344	ILS/DME	20	110.750	44Y		ISN	505719N 012121W	19	25/62.5	25/100		100			27
									TRD 513352N 004048E 513426N 004151E								
	SOUTHEND	1827	ILS/DME	23	111.350	50Y		IND	513416N 004130E	54	25/62.5	25/100		100			27
									TRD 513433N 004218E 513354N 004115E								
		6541	ILS/DME	5	111.350	50Y		ISO	513416N 004130E	234	25/62.5	25/100		100			27
	STORNOWAY	4143	VOR/DME		115.100	98X		STN	@581225N 061089W		200/500	200/500		500	17		39
									TRD 581213N 061944W 581300N 062000W								
		5288	ILS/DME	18	110.900	46X		STW	581255N 061945W Alt=8	354	25/62.5	25/100		100			27
									TRD 581332N 061939W 581300N 062000W								
		5289	ILS/DME	36	110.900	46X		SOY	581255N 061945W Alt=8	174	25/62.5	25/100		100			27
									TRD 595257N 011722W 595248N 011812W								
	SUMBURGH	1839	ILS/DME	9	108.500	22X		SUB	595257N 011738W	264	25/62.5	25/100		100			27
		1841	VOR/DME		117.350	120Y		SUM	595244N 011712W		200/500	200/500		500	17		39
									TRD 595248N 011812W 595257N 011721W								
		3415	ILS/DME	27	108.500	22X		ISG	695257N 011738W	84	25/62.5	25/100		100			27
	TIREE	1848	VOR/DME		117.700	124X		TIR	@562936N 065232W		200/500	200/500		500	20		39
	VALLEY	1853	TAC			21X		VYL	531456N 042339W		(blank)	60/400		400			38 MIL; Project Marshal
		5965	ILS/DME	14	108.550	22Y		IYV	TRD 531500N 043200W	310	25/62.5	25/100		100			27 MIL
	WADDINGTON	1859	TAC			118X		WAD	503055N 003138W		(blank)	40/250		250			38 MIL; Project Marshal
									TRD 531000N 003200W Alt=67								
		5946	ILS/DME	20	110.700	44X		IWA	534426N 025419W	21	25/62.5	25/100		100			27 MIL
									TRD 534449N 025214W 534440N 025254W								
	WARTON	1861	ILS/DME	25	109.900	36X		IWO	534440N 025254W	71	25/62.5	25/100		100			27
		1862	TAC			79X		WTN	534500N 025300W		(blank)	100/500		500			37 MIL
									@520719N 005626E Alt=95								
	WATTISHAM	5137	TAC			30X		WTZ	TRD 520800N 005700E Alt=83	47	25/62.5	25/100		100			27 MIL
		6050	ILS/DME	23	109.950	36Y		IWAT	523747N 030914W		(blank)	15/100		100			24
	WELSHPOOL	5126	DME			106Y		WPL	@562732N 030601W		(blank)	160/500		500	17		39
	WICK	4144	VOR/DME		113.600	83X		WIK	523627N 003949W		(blank)	100/400		400			28 MIL; Project Marshal
	WITTERING	1870	TAC			123X		WIT	523057N 021543W		(blank)	15/100		100			27
	WOLVERHAMPTON	5437	DME			23X		WOL	505627N 023914W		(blank)	25/250		250			24
	YEOVIL	1875	DME			27Y		YVL	510016N 023135W		(blank)	200/600		600			38 MIL; Project Marshal
	YEOVILTON	1876	TAC			47X		VLN	TRD 510600N 023800W Alt=20	83	25/62.5	25/100		100			27 MIL
		6052	ILS/DME	27	111.300	50X		IYEO	@530314N 014012W		100/500	100/500		500	20		39
	TRENT	1849	VOR/DME		115.700	104X		TNT	TRD 515336N 021047W 515342N 020952W 515332N 021005W								
									Alt=20,49,33								
	GLOUCESTER	7269	ILS/DME	27	109.950	36Y		IGOS	@502355N 032937W	84	25/62.5	25/100		100			29
	BERRY HEAD	6947	VOR/DME		112.050	57Y		BHD	510918N 003252E		160/500	160/500		500	17		37
	LASHENDEN/HEADCORN	6558	DME			106Y		HLS	(blank)		(blank)	15/100		100			27
									TRD 555726N 032105W 555652N 032259W								
	EDINBURGH/EDINBURG	6477	ILS/DME	6	108.900	26X		IVG	555706N 032223W	239	25/62.5	25/100		100			27
									TRD 555629N 032329W 555717N 032149W								
		6478	ILS/DME	24	108.900	26X		ITH	555706N 032223W	59	25/62.5	25/100		100			27
	CAMPBLETOWN	6293	VOR/DME		116.000	107X		MAC	552548N 053901W		150/500	150/500		500	17		39
									TRD 513020N 000323E 513020N 000348E								
	LONDON CITY	6264	ILS/DME	27	111.150	48Y		ILSR	513021N 000319E	93	25/62.5	25/100		100			29
									TRD 513017N 000403E 513022N 000251E								
		6265	ILS/DME	9	111.150	48Y		ILST	513021N 000319E	273	25/62.5	25/100		100			29
	BOVINGDON	6243	VOR/DME		113.750	84Y		BNN	514334N 003259W		60/500	60/500		500	17		39

COM3- List of national and international assignments in country order

CTY	Location	SAFIRE Ref	Service	Rwy Designator	VHF Channel	DME Channel	MLS Channel	Id	Co-ordinates	TRD	VHFDOC	DMEDOC	MLSDOC	MaxFL	VHF EIRP	DME EIRP	Remarks
	LONDONDERRY/EGLINGTON	1644	ILS/DME	26	108.300	20X		IEGT	TRD 550222N 071052W 550243N 070909W 550239N 070943W TRD 550243N 070910W 550232N 071015W	73	25/62.5	25/100		100	27		
	CONINGSBY	6154 1612	ILS/DME TAC	8	108.300	20X	48X	IEGN	550239N 070944W 530528N 001000W Alt=5 TRD 530600N 001000W	253	25/62.5 (blank)	25/100 120/400		100 400	27	38 MIL: Project Marshal	
	NEWQUAY/NEWQUAY	6049	ILS/DME	25	111.150	48Y		ICNY	Alt=15 TRD 502658N 050107W 502611N 045914W 502632N 045947W TRD 502601N 045835W	71	25/62.5	25/100		100	27	MIL	
	HONILEY	5943 5739	ILS/DME VOR/DME	12	110.500 113.650	42X 83Y		INEW HON	502648N 050028W 502632N 045947W @552124N 013949W TRD 514945N 011920W	300	25/62.5 100/500	25/100 100/500		100 500	27 17	37	
	OXFORD	5576	ILS/DME	19	108.350	20Y		IOXF	515027N 011913W 515014N 011919W TRD 540805N 031612W 540733N 031603W	11	25/62.5	25/100		100	27		
	BARROW/WALNEY IS. STRUMBLE	5257 5237	ILS/DME VOR/DME	35	110.150 113.100	38Y 78X		IWL STU	540738N 031553W @515941N 050225W TRD 531958N 025214W 531959N 025014W	166	25/62.5 300/500	25/100 300/500		101 500	27 17	39	
	LIVERPOOL	1725	ILS/DME	27	111.750	54Y		ILQ	531957N 025057W TRD 532004N 024951W 531955N 025142W	86	25/62.5	25/100		100	27		
	ST. ABBS	5135 4908	ILS/DME VOR/DME	9	111.750 112.500	54Y 72X		ILVR SAB	531957N 025057W @555427N 021223W	266	25/62.5	15/100 200/500		100 500	27 17	39	
	BRECON	4138	VOR/DME		117.450	121Y		BCN	@514332N 031547W		65/500	125/500		500	17	39	
	OCKHAM	4132	VOR/DME		115.300	102X		OCK	@511813N 001005W		90/250	90/250		250	17	39	
	DAVENTRY	4122	VOR/DME		116.400	111X		DTY	@521048N 010650W		75/500	75/500		500	17	39	
	HIGHFIELD PARK	1674 3582	DME VOR		117.750	31Y		TST	512000N 005800W 512000N 005800W		(blank) 05-01-2021	##### 1		1	17	29 TRAINING	
	ALL UK	1528	DME			17Y			KINGDOM(LAND) ALL UNITED		(blank)	100/500		500	37		
		1532	ILS/DME		111.950	56Y			KINGDOM(LAND)* ALL UNITED		25/62.5	25/100		100	27		
		1533	DME			57X			KINGDOM(LAND) ALL UNITED		(blank)	100/500		500	37	MOBILE	
		1534	DME			81Y			KINGDOM(LAND) ALL UNITED		(blank)	100/500		500	37		
		1537	VOR/DME		116.900	116X			KINGDOM(LAND) ALL UNITED		100/500	100/500		500	17	37	MOBILE
		1538	VOR/DME		116.950	116Y			KINGDOM(LAND) ALL UNITED		100/500	100/500		500	17	37	MOBILE
		1539	DME			119Y			ALL UNITED KINGDOM(LAND) ALL UNITED		(blank)	100/500		500	37		
		3411	TAC			26Y			KINGDOM(LAND) ALL UNITED		(blank)	40/250		250		40 MIL mobile ground	
		3412	TAC			34X			ALL UNITED KINGDOM(LAND) ALL UNITED		(blank)	40/250		250		40 MIL mobile ground	
		3413	TAC			54X			KINGDOM(LAND) ALL UNITED		(blank)	40/250		250		40 MIL mobile ground	
		3414	TAC			112Y			ALL UNITED KINGDOM(LAND)		(blank)	40/250		250		40 MIL mobile ground	
	WALLASEY	1860	VOR/DME		114.100	88X		WAL	53231N 030804W		120/500	120/500		500	17	39	
	TALLA	1845	VOR/DME		113.800	85X		TLA	@562957N 032110W @504538N 000718E		120/500	120/500		500	20	39	
	SEAFORD	1817	VOR/DME		117.000	117X		SFD	@510314N 003730W		120/500	120/500		500	23	39	En-route Nav; increase sector UR to 75nm
	TURNBERRY	1808	VOR/DME		117.500	122X		TRN	@551848N 044702W		200/500	200/500		500	17	39	
	POLE HILL	1806	VOR/DME		112.100	58X		POL	@534438N 020612W		150/500	150/500		500	20	39	
	OTTRINGHAM	1799	VOR/DME		113.900	86X		MID	@510314N 003730W		100/500	100/500		500	23	39	
	MIDHURST	1777	VOR/DME		114.000	87X		GWC	@510102N 000658E		60/250	60/250		250	17	39	
	MAYFIELD	1775	VOR/DME		117.900	128X		MAY	@505959N 005243E		100/500	100/500		500	17	39	En-route Nav
	LYDD	1759	VOR/DME		114.050	87Y		LYD	@505959N 005243E		100/500	100/500		500	17	39	En-route Nav
	LAMBOURNE	1708	VOR/DME		116.600	103X		LAM	@513846N 000906E		110/500	110/500		500	17	39	
	GOODWOOD	1665	VOR/DME		114.750	94Y		GWC	505119N 004504W		80/500	80/500		500	20	39	
	DOVER	1631	VOR/DME		114.950	96Y		DVR	@510848N 012133E		200/500	200/500		500	20	39	
	DETLING	1630	VOR/DME		117.300	120X		DET	511814N 003550E		60/500	60/500		500	17	39	
	DEAN CROSS	1629	VOR/DME		115.200	99X		DCS	@544318N 032026W		100/500	100/500		500	17	39	
	COMPTON (HORRY)	1610	VOR/DME		114.350	90Y		CPT	@512930N 011311W		150/500	150/500		500	20	39	
	BROOKMANS PARK	1589	VOR/DME		117.600	122X		BPK	@514458N 000624W		80/500	80/500		500	17	39	
	BELFAST	1546	VOR/DME		117.200	119X		BEL	@543940N 061348W		200/500	200/500		500	23	39	
		56126	VOR/DME		109.450	31Y		BFT	@543940N 061347W		160/500	160/500		500	23	39	Replacement for 3G1546 once operations
	BARKWAY	1540	VOR/DME		116.250	109Y		BKY	515923N 000343E 504453N 011831W		40/250	40/250		250	20	39	
	BAE COWES	28525	TAC			25X		TST	504453N 011832W		(blank)	40/250		250		37	Bae Cowes QEC test facility
	LONDON HEATHROW GBAS SOUTH	29808	GBAS		117.150			LHRS	512800N 002547W		23/100			100	17		Heathrow GBAS South
	LONDON HEATHROW GBAS NORTH	29807	GBAS		112.350			LHRN	512844N 002733W		23/100			100	17		HEATHROW GBAS NORTH
	ALL U.K.	34926	TAC			114X		QLZ	660100N 032700W Alt=0		(blank)	40/250		250		37	
	ST. ATHAN	50646 55247	ILS/DME DME	25	111.150	48Y 33Y		ISAT GLO	TRD 512422N 032658W 552324N 034412W	75	25/62.5 (blank)	25/100 60/500		100 500	27	MIL	
	GREAT DUN FELL	55246	DME			99Y		DUF	544101N 022704W		(blank)	60/500		500	39		
	DUNDONALD	55245	DME			101Y		DUD	553332N 043606W TRD 532741N 010604W 532900N 005952W		(blank)	60/500		500	39		
	DONCASTER SHEFFIELD	6267	ILS/DME	20	110.950	46Y		IFNL	532830N 010007W	18	25/62.5	25/100		100	27		



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CTY	Location	SAFIRE Ref	Service	Rwy Designator	VHF Channel	DME Channel	MLS Channel	Id	Co-ordinates	TRD	VHFDOC	DMEDOC	MLSDOC	MaxFL	VHF EIRP	DME EIRP	Remarks
G	DONCASTER SHEFFIELD RAF SEALAND	6268 73747	ILS/DME TAC	2	110.950	46Y	34X	IFIN SED	TRD 532925N 005946W 532801N 010024W 532800N 010007W	198	25/62.5 (blank)	25/100 100/600		100 600		27 29	MIL; Project Marshall test rig
									TRD 550235N 014015W 550203N 014156W 550213N 014211W TRD 550199N 014228W 550222N 014046W 550213N 014121W								
	NEWCASTLE/NEWCASTLE	1786 1787	ILS/DME ILS/DME	7 25	111.500	52X	52X	INC INWC	TRD 534612N 030108W 534612N 030108W 534613N 030142W	245	25/62.5	25/100		100 100		29 29	
									TRD 413604N 413648E 413652N 413529E								
GEO	BATUMI	6725 34425	ILS/DME DME	13	110.300	40X	21X	LU BTM	TRD 413623N 413606E Alt=6	311	25/62.5 (blank)	25/100 160/460		100 460		27 37	
									421033N 422905E								
	KUTAISSIKOPITNAR	6726 39685	VOR/DME ILS/DME	83X 25	113.600	83X	83X	KTS IKO	TRD 421028N 422751E 421038N 422938E TRD 421045N 423004E	80	25/62.5	25/153		153		27	
									421028N 422818E								
	TBILISITBILISI	6722 6723	ILS/DME ILS/DME	31L 13R	108.900	26X	26X	INA IVP	TRD 414045N 445618E 413933N 445741E TRD 413926N 445758E 414031N 445630E	136	25/62.5	25/100		100 100		27 27	
									414014N 445649E								
	SUKHUMI/BABUSHAR#	6724 6721	VOR/DME ILS	84X 30	113.700	84X	84X	TBS	414014N 445649E 430000N 410000E 414141N 433238E	108/100 108/100	108/100		100	17	37	DVOR	TEMPORARY - PROHIBITED AREA
									25/62.5								
	BAKURIANI	34429	DME		108.150	18Y	18Y	IBPL	Alt=2800 422930N 442946E	(blank)	160/460		460		37		
									Alt=2700								
	GUDAURI	34428	DME		111.600	55X	55X	GUD	Alt=2700	(blank)	160/460		460		37		
									Alt=2700								
	TSNORI	34427	DME		111.600	55X	55X	TSN	413746N 440058E	(blank)	160/460		460		37		
									413746N 440058E								
	POTI	34426	DME		111.600	55X	55X	PTI	420942N 414150E Alt=1	(blank)	160/460		460		37		
									420942N 414150E Alt=1								
GIB	GIBRALTAR	1878 3419	TAC TAC		110.900	46X	46X	GBR	360800N 052100W	(blank)	200/600		600		40		
									360800N 052100W								
	ALL GIBRALTAR	3420 3421 3422	TAC TAC TAC		110.900	46X	46X	ALL GIBRALTAR(LAND)	ALL GIBRALTAR(LAND) ALL GIBRALTAR(LAND) ALL GIBRALTAR(LAND)	(blank)	40/250		250		40		
									ALL GIBRALTAR(LAND)								
GRC	ALEXANDROUPOLIS ANDRAVIDA	1881 1893	VOR/DME VOR/DME		113.800	85X	85X	ALX	@405100N 255700E	100/500	100/500		500	23	38		
									@405100N 255700E								
	ARAXOS	1895 6882	TAC VOR/DME		112.700	71X	71X	ARX	380700N 212500E @380900N 212900E	(blank)	150/500		500	23	37		
									380700N 212500E								
	ASTIPALEA	1897	VOR/DME		116.500	112X	112X	ASL	363500N 262200E	50/250	50/250		500	20	37		28 TVOR - MIL
									363500N 262200E								
	ATHINAI	6065	VOR/DME		114.400	91X	91X	ATV	375300N 234800E	120/500	120/500		500	20	37		
									375300N 234800E								
	ATHINAI/EL VENIZELOS	4584 4975	VOR/DME VOR/DME		109.600	33X	33X	SAT	375500N 235500E 375500N 235500E	40/250	40/250		500	17	29		TVOR
									375500N 235500E								
	CHANIA/SOUDA	4951 4952 4953	ILS/DME ILS/DME ILS/DME		111.500	122X	122X	SPA	375600N 234600E	40/250	40/250		500	17	29		TVOR
									375600N 234600E								
	CHANIA/SOUDA	1906 1910	VOR/DME TAC		108.600	23X	23X	SUD	353100N 241100E 353300N 240700E	50/250	50/250		250	17	28		TVOR
									353300N 240700E								
	CHIOS	8491 6853	ILS/DME VOR/DME		110.900	46X	46X	ISUD	TRD 353200N 240800E 353200N 241000E	25/62.5	25/100		100		27		MIL
									353200N 241000E								
	KALAMATA	1920 1921	VOR/DME TAC		112.600	73X	73X	KAM	370400N 220200E 370400N 220200E	40/250	40/250		250	17	27		TVOR
									370400N 220200E								
	KARPATHOS	4965 4586	ILS/DME TAC		111.300	50X	50X	IKTL	TRD 370500N 220100E 352500N 271000E	25/62.5	25/100		100		27		MIL
									370500N 220100E								
	KITHIRA	6361 1938	VOR/DME TAC		111.400	51X	51X	KPC	352500N 270900E 361800N 225700E	200/500	200/500		500	23	37		
									352500N 270900E								
	LARISSA	1943 7273	VOR/DME ILS/DME		112.300	70X	70X	LRS	393900N 222600E 393900N 222700E	40/250	40/250		250	17	37		TVOR - MIL
									393900N 222600E								
	LESVOS/SMITLINI	1945 1950	VOR/DME TAC		109.600	33X	33X	KRN	390400N 263600E 380800N 233700E	40/250	40/250		250	17	28		TVOR
									390400N 263600E								
	MARATHON/KOTRON	1951 1952	VOR/DME VOR/DME		110.000	37X	37X	MKN	372600N 252100E @364500N 243100E	40/200	40/200		200	17	28		TVOR
									372600N 252100E								
	MILOS	1955 1957	VOR/DME TAC		110.400	41X	41X	AGH	391300N 224800E 391300N 224800E	40/250	40/250		250	17	28		TVOR
									391300N 224800E								
	NEA ANCHIALIOS	5846 5360	ILS/DME VOR/DME		110.900	46X	46X	IANC	TRD 391300N 224600E 385600N 204600E	25/62.5	25/100		100		27		
									391300N 224600E								
	PREVEZA/AKTION	5361 5363	TAC ILS/DME		110.900	29X	29X	PRV	385700N 205200E TRD 385600N 205200E	40/250	100/250		250		30		TVOR
									385700N 205200E								
	RODOS/DIAGORAS	5293 1969	ILS/DME VOR/DME		110.950	46Y	46Y	IRDO	TRD 362400N 280400E 362400N 282900E	25/62.5	25/100		100		27		2021 TO BECOME OP
									362400N 280400E								
	SANTORINI	1970 1971	TAC VOR/DME		110.400	41X	41X	SAN	362400N 282900E 362300N 282800E	(blank)	70/250		250		40		
									362300N 282800E								
	SITIA	5560 5528	VOR/DME VOR/DME		112.900	76X	76X	SHT	@350400N 281120E 351300N 260600E	200/500	200/500		500	23	38		
									@350400N 281120E								
	SKIATHOS	1974 1975	VOR/DME TAC		111.650	53Y	53Y	SKT	391100N 233000E 385000N 243500E	50/250	50/250		250	17	27		Planned
									391100N 233000E								
	SKYROS	5572 1977	VOR/DME TAC		112.800	75X	75X	SKR	385000N 243500E 385000N 243500E	40/250	40/250		250	17	28		TVOR - MIL
									385000N 243500E								
	TANAGRA	1980 4940	VOR/DME ILS/DME		110.800	45X	45X	MGR	385900N 242500E 382100N 233100E	40/250	40/250		250	17	29		TVOR
									385900N 242500E								
	THESSALONIKI/MAKEDONIA	1984 4903	VOR/DME ILS/DME		109.800	45X	45X	ITGR	TRD 382000N 233300E 403100N 225900E	40/250	25/100		100		27		TVOR
									382000N 233300E								
	THESSALONIKI/MAKEDONIA	4903	ILS/DME		109.500	32X	32X	IMAK	TRD 403100N 225900E	25/62.5	25/100		100		27		
									403100N 225900E								

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CTY	Location	SAFIRE Ref	Service	Rwy Designator	VHF Channel	DME Channel	MLS Channel	Id	Co-ordinates	TRD	VHFDOC	DMEDEC	MLSDOC	MaxFL	VHF EIRP	DME EIRP	Remarks
	THESSALONIKI/MAKEDONIA	4904	ILS/DME	16	110.300	40X		ITL TRD 403100N 225800E	346	25/62.5	25/100	100	100			27	
		72446	GBAS		115.725			LGTS 403100N 225800E Alt=6			23/100			100	15		GLASS EXPERIMENTAL OPERATION
	ZAKINTHOS	1987	VOR/DME		110.800	45X		ZAK 374500N 205300E			40/250	40/250	250	17		28	TVOR
	KASTELI	1924	TAC			56X		KLI 351200N 251000E			(blank)	150/500	500				42
		7272	ILS/DME	2	110.500	42X		IKAT 351100N 251000E			25/100		100				27 MIL
	IRAKLION	1915	TAC			20X		RKL 352000N 251400E			(blank)	200/600	600				40
		1916	VOR/DME		108.800	25X		IRA 352100N 251100E			40/250	40/250	250	17		28	TVOR
	CHIOS/VESTA	6854	VOR/DME		117.600	123X		MES @381500N 255400E			150/500	150/500	500	23		37	
	IOANNINA	6354	VOR/DME		108.600	23X		YNN 394200N 204800E			60/250	60/250	250	17		38	
	KERKIRA	1932	VOR/DME		108.800	25X		GAR 393600N 195500E			40/250	40/250	250	17		28	TVOR
		1935	VOR/DME		114.700	94X		KRK 392700N 200400E			100/500	100/500	500	23		38	TERRAIN
		72445	GBAS		115.850			LGRR 393600N 195500E Alt=1			23/100		100	15			GLASS EXPERIMENTAL OPERATION
	DEKELIA/TATOI	6071	VOR/DME		115.900	106X		DTA 390600N 234600E			40/250	40/250	250	17		29	MIL
		6387	ILS/DME	3	111.150	48Y		IDKT 390600N 234600E			25/62.5	25/100	100				27 MIL
	RODOS/PARADIS	1964	VOR/DME		108.600	23X		PAR 362400N 280400E			25/250	25/250	250	17		28	TVOR
		1965	ILS	25	110.300			IRDS TRD 362400N 280400E	70	25/62.5			62				
	LIMNOS	1946	VOR/DME		109.200	29X		LMO @395500N 251400E			100/500	50/200	500	17		38	DME DOC 50/200
		1947	ILS/DME	4	110.700	44X		ILMO TRD 395500N 252500E	223	25/62.5	25/100		100				27 Planned
		1949	TAC			95X		LMN 395600N 251500E			(blank)	100/250	250				40
	KAVALA/CHRISOUPOI	1928	VOR/DME		108.800	25X		KPL 405500N 243700E			40/250	40/250	250	17		28	TVOR
		1929	TAC			90X		KRP 405500N 243700E			(blank)	100/260	280				40
		4671	ILS/DME	5	110.300	40X		KVA TRD 405500N 243700E	235	25/62.5	25/100		100				27 2021 TO BECOME OP
		4672	ILS/DME	23	110.300	40X		KVA TRD 405500N 243700E	55	25/62.5	25/100		100				27 2021 TO BECOME OP
	ALL GREECE	1882	TAC			34X		ALL GREECE(LAND)			(blank)	40/250	250				40 MIL
		1883	TAC			54X		ALL GREECE(LAND)			(blank)	40/250	250				40 MIL
		3401	TAC			26Y		ALL GREECE(LAND)			(blank)	40/250	250				40 MIL
		3402	TAC			112Y		ALL GREECE(LAND)			(blank)	40/250	250				40 MIL
		5691	VOR		116.000			TST ALL GREECE(LAND)			40/500		500	17			TEST - MOBILE
		6360	VOR/DME		115.350	100Y		TST ALL GREECE(LAND)			40/500	40/500	500	17			27 TEST-MOBILE
	KORINTHOS	6363	VOR/DME		113.000	77X		KTV 374400N 215900E			100/500	100/500	500	23			37 Planned
	ALEXANDRIA	6064	VOR/DME		111.600	53X		AXE 403900N 224600E			40/250	40/250	250	17		27	TVOR - MIL
		72845	VOR		110.600			AXE 403900N 223000E			40/250		250	17			40
	RODOS	3546	TAC			121X		ROD 362000N 2809500E			(blank)	150/250	250				40
		5327	VOR/DME		115.800	102X		RDS 362000N 2809500E			100/500	200/500	500	20			37
	ELEFSIS	1912	TAC			19X		ELF 380400N 233300E			(blank)	100/250	250				39
		5053	ILS/DME	36	111.300	50X		IEFS TRD 380400N 233300E	178	25/62.5	25/100		100				27 MIL
		5258	VOR/DME		109.850	35Y		LEF 380400N 233300E			40/250	40/250	250	17			27 MIL
	TRIPOLIS	1985	VOR/DME		115.200	109X		TRL @372400N 225900E			150/500	150/500	500	23			37
	THESSALONIKI	1982	TAC			121X		MK @403200N 225900E			(blank)	150/250	250				40 DOC change to seocrised in response to relevant BUL requer
		4669	VOR/DME		112.100	58X		TSL @402700N 225900E			150/500	150/500	500	23			37
	SKOPELOS	4668	VOR/DME		113.400	81X		SKP 391100N 233700E			150/500	150/500	500	23			37
	STEFANOVIKION	4357	VOR/DME		113.200	78X		STV 392800N 234700E			50/250	50/250	250	25			27 TVOR - DME planned
	KEFALINIA	4002	VOR/DME		115.500	102X		KFN 380700N 203000E			100/500	100/500	500	20			37
	KARISTOS	3323	VOR/DME		112.200	59X		KRO 380000N 243000E			100/500	100/500	500	17			37
	SAMOS	1967	VOR/DME		111.600	53X		SAM 374100N 265400E			50/250	50/250	250	17		28	TVOR
	PALEOCHORA	1958	VOR/DME		114.600	91X		FLH @351300N 231400E			200/500	200/500	500	23			42
	LESVOS	1944	VOR/DME		114.200	89X		LSV @391400N 262500E			100/500	100/500	500	23			38
	KOZANI	1940	VOR/DME		109.600	33X		KOZ 401700N 215000E			40/250	40/250	250	17		28	TVOR
	KOS	1939	VOR/DME		109.000	27X		KOS 364700N 270500E			40/250	40/250	250	17		28	TVOR
	KEA	1930	VOR/DME		115.000	97X		KEA @373400N 243700E			100/500	120/500	500	23			38
	KASTORIA	1925	VOR/DME		114.500	92X		KAS 402700N 211700E			40/250	40/250	250	17		28	TVOR
	FISKA	1914	VOR/DME		116.400	111X		FSK @410600N 230000E			150/500	150/500	500	17			38
	DIDIMON	1911	VOR/DME		117.200	119X		DDM 372900N 231300E			80/500	80/500	500	23			42
HNG	BUDAPEST/FERIHEGY	2000	ILS/DME	13R	110.500	42X		FER TRD 472600N 191600E	312	25/62.5	25/100		100				29
		3324	ILS/DME	31L	111.600	52X		FHL TRD 472700N 191300E	132	25/62.5	25/100		100				29
		6077	VOR/DME		117.300	120X		BUD 472700N 191500E			100/500	100/500	500	17			37
		6330	ILS/DME	13L	109.150	28Y		BPL TRD 472700N 191600E	312	25/62.5	25/100		100				29
		6926	ILS/DME	31R	109.900	32X		BPR TRD 472700N 191600E	132	25/62.5	25/100		100				29
	DEBRECCEN	6927	ILS/DME	05R	110.100	36X		DCN TRD 472900N 213700E	226	25/62.5	25/100		100				27
	KECSKEMET	5465	ILS/DME	30	109.950	36Y		KEE TRD 465500N 194500E	123	25/62.5	25/100		100				29 MIL
		5728	VOR/DME		114.150	89Y		KET 465500N 194500E			100/500	100/500	500	20			39 MIL
		9001	ILS/DME	12	111.300	50X		KEW TRD 465400N 194600E	303	25/62.5	25/100		100				29 MIL
		70425	VOR/TAC		114.150	89Y		KET 465541N 194332E			195/500	200/500	500	20			40 MIL - Planned replacement of 3HNG572E
		70405	VOR/TAC		113.550	82Y		KCM 465541N 194332E			100/500	100/500	500	17			40 MIL
	NYIREGYHAZA	4956	VOR/DME		116.100	108X		NYR 475900N 214100E			40/500	40/500	500	15			28
	PAPA	5467	ILS/DME	34	110.350	40Y		PCD TRD 472300N 173000E	160	25/62.5	25/100		100				29 MIL
		5693	VOR/DME		114.750	94Y		PCT 472200N 173000E			100/500	100/500	500	17			39 MIL
		9002	ILS/DME	16	108.550	22Y		PCN TRD 472100N 173000E	340	25/62.5	25/100		100				29 MIL
		70445	VOR/TAC		114.750	94Y		PCT 472254N 172928E			140/500	120/500	500	20			40 MIL Planned replacement of 3HNG569:
		70406	VOR/TAC		116.250	109Y		PPA 472254N 172928E			60/500	100/500	500	17			40 MIL
	PECS/POGANY	5268	ILS/DME	34	108.350	22Y		PCS TRD 460000N 151400E	158	25/62.5	25/100		100				27
	SARMELEK	5183	DME			79X		SME 464000N 171000E			(blank)	25/100	100				27
		6928	ILS/DME	16	108.750	24Y		SMK TRD 464000N 171000E	346	25/62.5	25/100		100				27
	SZEGED	6004	DME			85X		SEG 464100N 200500E			(blank)	40/250	250				27
	ALL HUNGARY	5128	TAC			34X		HUB ALL HUNGARY(LAND)	</								

COM3- List of national and international assignments in country order

CTY	Location	SAFIRE Ref	Service	Rwy Designator	VHF Channel	DME Channel	MLS Channel	Id	Co-ordinates	TRD	VHFDOC	DMEDOC	MLSDOC	MaxFL	VHF EIRP	DME EIRP	Remarks	
HOL	AMSTERDAM/SCHIPHOL	5162	ILS/DME	36R	111.950	56Y		ABA	TRD 521925N 044649E 521737N 044633E	183	25/62.5	25/100		100		27		
		5414	ILS	6	111.100			SL	TRD 521600N 044700E	238	25/62.5			100		62	To be discussed	
		6345	ILS/DME	18C	109.500	32X		ZWA	TRD 521600N 044414E 521943N 044417E	3	25/62.5	25/100		100		27		
		6346	ILS/DME	18R	110.100	38X		VPB	TRD 521933N 044231E 522126N 044248E	3	25/62.5	25/100		100		27		
		6347	ILS/DME	6	110.550	42Y		KAG	TRD 521723N 044432E 521722N 044433E	238	25/62.5	23/100		100		27		
		6349	ILS/DME	27	111.550	52Y		BVB	TRD 521900N 044440E 521909N 044731E	87	25/62.5	25/100		100		27		
		6532	ILS/DME	36C	108.750	24Y		MSA	TRD 522002N 044425E 521832N 044410E	183	25/62.5	25/100		100		33	Extended GP - 15NM	
		2037	TAC			59X		DLN	521632N 044609E 520245N 055154E		(blank)	40/250		250			35	Planned
		6735	ILS/DME	20	108.700	24X		DNS	520403N 055227E	21	25/62.5	25/100		100		27		
		6736	ILS/DME	2	108.700	24X		DNN	TRD 520300N 055500E	198	25/62.5	25/100		100		27		
EINDHOVEN		2043	TAC			119X		EHV	512658N 052320E		(blank)	40/250		250			35	
		5294	ILS/DME	3	109.750	34Y		EHZ	TRD 512745N 052318E 512634N 052208E	216	25/62.5	25/100		100		27		
		5295	ILS/DME	21	109.750	34Y		EHO	TRD 512615N 052137E	36	25/62.5	25/100		100		27		
		2046	TAC			111X		GZR	513358N 045601E		(blank)	40/250		250			35	
GRONINGEN/EELEDE LEEUWARDEN		5029	ILS/DME	28	111.900	56X		GZO	TRD 513411N 045435E 513354N 045642E	102	25/62.5	25/100		100		27	Planned - Opposite RWY	
		5857	ILS/DME	23	109.900	36X		GRO	TRD 530638N 053329E 530720N 063515E	52	25/62.5	25/100		100		27		
LELYSTAD/LELYSTAD		2052	TAC			94X		LWD	531325N 054507E		(blank)	150/600		600			35	
		5030	ILS/DME	23	111.750	54Y		LWO	TRD 531304N 054409E	56	25/62.5	25/100		100		29		
		5031	ILS/DME	5	111.750	54Y		LWZ	TRD 531359N 054617E 531318N 054428E	236	25/62.5	25/100		100		29		
		5281	ILS/DME	9	109.750	34Y		WOL	TRD 531343N 054620E 531400N 054443E	274	25/62.5	25/100		100		27	Planned opposite RWY	
		5282	ILS/DME	27	109.750	34Y		LOB	531339N 054555E	94	25/62.5	25/100		100		27		
		4763	ILS/DME	23	109.550	32Y		LSD	522700N 053000E		25/62.5	25/100		100		29	Planned	
		5475	DME			51X		FRO	522709N 053029E		(blank)	70/450		450			37	
		6108	ILS/DME	5	108.550	22Y		ILSN	522750N 053129E		25/62.5	23/100		100		27	Planned. True Coordinates after installatio	
		6109	ILS/DME	23	108.550	22Y		ILSS	522704N 053040E		25/62.5	23/100		100		27	Planned. True Coordinates after installatio	
		VALKENBURG VOLKEL		3587	TAC			49X		VBG	521000N 042500E		(blank)	100/400		400		
2074	TAC					20X		VKL	513920N 054225E		(blank)	200/600		600			35	
WOENSDBRECHT		5036	ILS/DME	24R	110.750	44Y		VLO	TRD 513947N 054312E 513954N 054340E	60	25/62.5	25/100		100		27		
		5037	ILS/DME	06L	110.750	44Y		VLZ	513905N 054145E	240	25/62.5	25/100		100		27		
		2077	TAC			97X		WDT	512651N 042030E		(blank)	40/250		250			35	
		5038	ILS/DME	25	108.150	18Y		WDO	TRD 512641N 041925E 512710N 042113E	70	25/62.5	25/100		100		27		
DE KOOY ROTTERDAM		5040	ILS/DME	7	108.150	18Y		WDZ	TRD 512714N 042144E 512643N 041950E	250	25/62.5	25/100		100		27		
		6836	ILS/DME	21	108.900	26X		DKY	525529N 044647E	35	25/62.5	25/100		100		27		
		2060	VOR/DME			41X		RTM	@515925N 042851E		100/250	100/250		250	17		37	
		5757	ILS/DME	24	110.900	46X		RSV	515740N 042652E	57	25/62.5	23/100		100		27		
TWENTHE		28472	ILS/DME	6	109.100	28X		ROS	TRD 515750N 042728E 515720N 042601E	237	25/62.5	23/100		100		27		
		2067	TAC			44X		TWN	521700N 065400E		(blank)	100/250		250			35	
HAASSTRECHT MAASTRICHT		5719	ILS/DME	23	109.350	30Y		TWO	521700N 065300E		25/62.5	25/100		100			27	Planned
		5680	DME			118Y		FRT	520016N 044609E		(blank)	70/450		450			37	
		2053	VOR/DME			23X		MAS	505819N 055738E		40/250	40/250		250	14		25	
DEN HELDER		5296	ILS/DME	21	111.550	52Y		BKN	TRD 505537N 054558E 505509N 054629E	33	25/62.5	25/100		100		27	ELEV. 375 FT	
		5307	ILS/DME	3	111.550	52Y		BKZ	TRD 505519N 054650E 505417N 054540E	213	25/62.5	25/100		100		27	ELEV. 375 FT	
SOESTERBERG		4047	VOR/DME			102Y		HRD	505521N 054647E		120/250	120/250		250	14		37	
		2065	VOR/DME			80X		SPY	@523225N 045114E		150/500	150/500		500	17		40	
		2064	TAC			105X		SSB	520800N 051700E		(blank)	40/250		250			35	MIL
		2057	VOR/DME			115X		RWN	520800N 054540E		80/500	80/500		500	14		37	
PAMPUS HAAMSTED		2056	VOR/DME			125X		PAM	@522005N 050532E		150/500	150/500		500	17		37	
		2049	VOR			114.150		HSD	514322N 035129E		80/500			500	14		37	
EELDE DE PEEL		2040	VOR/DME			71X		EEL	@530951N 064400E		150/500	150/500		500	17		37	
		2035	TAC			53X		DPL	513100N 055100E		(blank)	40/250		250			38	MIL
ALL NETHERLANDS		2020	VOR/DME			21X		SPL	521956N 044500E		60/250	60/250		250	17		37	
		2012	TAC			26Y		ALL	NETHERLAND(LAND)		(blank)	40/250		250			40	
		2013	TAC			34X		ALL	NETHERLAND(LAND)		(blank)	40/250		250			40	NOT USABLE IN A ZONE OF 48NM FROM BELGIAN TAC CH.33&35)
		2014	TAC			54X		ALL	NETHERLAND(LAND)		(blank)	40/250		250			40	
		2017	TAC			112Y		ALL	NETHERLAND(LAND)		(blank)	40/250		250			40	NOT USABLE IN A ZONE OF 45NM FROM BELGIAN BOUNDARY

## COM3- List of national and international assignments in country order

CTY	Location	SAFIRE Ref	Service	Rwy Designator	VHF Channel	DME Channel	MLS Channel	Id	Co-ordinates	TRD	VHFDOC	DMEDOC	MLSDOC	MaxFL	VHF EIRP	DME EIRP	Remarks	
HRV	ALL NETHERLANDS	2019	VOR/DME		117.650	123Y		ANV	ALL NETHERLAND(LAND) 43187N 16372E		100/500	100/500		500	20	37		
	BRAC	6942	DME			101Y		BRC	TRD 423317N 161705E		(blank)	100/500		500		37		
	DUBROVNIK/CILIP	6584	ILS/DME	11	110.100	38X		IDU	423408N 161508E	298	25/62.5	25/100		100		30		
	LOSINJ	27290	DME			21Y		LSJ	443057N 142928E		(blank)	100/500		500		37		
	NATIONAL AERODROMES	55335	VOR/DME		117.350	120Y		NTL	443358N 142328E Alt=85		100/500	100/500		500	20	37		
		30274	TAC			112Y			ALL CROATIALAND		(blank)	40/250		250			37	FOR NATO OPERATION
		30273	TAC			54X			ALL CROATIALAND		(blank)	40/250		250			37	FOR NATO OPERATION
		30272	TAC			34X			ALL CROATIALAND		(blank)	40/250		250			37	FOR NATO OPERATION
		30271	TAC			26Y			ALL CROATIALAND		(blank)	40/250		250			37	FOR NATO OPERATION
		SPLIT/KASTELA	6582	ILS/DME	5	110.500	42X		IST	TRD 433252N 161650E 433158N 161721E	233	25/62.5	75/250		250		37	
		ZADAR/ZEMUNIK	6583	ILS	13	110.100			IZD	TRD 440553N 152138E 440658N 152021E	316	25/62.5			62			
		ZAGREB	7146	VOR/DME		113.700	84X		ZAG	455344N 161824E		100/500	100/500		500	20	37	
		DUBROVNIK	7145	VOR/DME		115.400	101X		DBK	423314N 161639E		80/500	80/500		500	20	37	
		ZADAR	7144	VOR/DME		108.600	23X		ZDA	440543N 152151E Alt=83		70/500	70/500		500	20	37	
		SISAK/PETRINJA	6959	DME			56Y		SPT	452800N 162609E		(blank)	100/500		600		37	
		RJEKA	5966	VOR/DME		117.800	125X		RJK	451327N 143491E		60/500	60/250		500	20	34	
		SPLIT	6060	VOR/DME		115.700	104X		SPL	432948N 161817E		100/500	100/500		500	17	37	
		OSIJEK/KLISA	6585	ILS	29	111.500			IOS	TRD 452802N 184734E 452731N 184820E	111	25/62.5			62			
			55105	ILS/DME	11	111.150	48Y		ISJ	TRD 452752N 184800E	290	25/62.5	100/500		500		39	
		PETROVA GORA	27289	DME			17Y		PTG	451845N 154828E		(blank)	100/600		600		37	
		JAPETIC	29012	DME			123Y		JAP	454440N 153629E		(blank)	100/500		500		37	
		BARNA	7143	VOR/DME		117.400	121X		VBA	454452N 157084E		80/500	80/500		500	20	37	
		PULA	6578	VOR/DME		111.250	49Y		PUL	445333N 135505E Alt=66		100/500	100/500		500	17	37	
			6586	ILS	27	111.500			IPU	TRD 445335N 135401E 445334N 135608E	88	25/62.5			62			
		RJEKA/KRK I	6581	ILS	14	108.500			IKR	TRD 451324N 143344E	324	25/62.5			62			
		LUKAVEC	6010	DME			35Y		LUK	454126N 155933E		(blank)	100/500		500		37	
	OSIJEK	6009	DME			30Y		KLS	452758N 184732E Alt=96		(blank)	100/500		500		37		
	ZAGREB/FRANJO TUDJMAN	6579	ILS	22	109.100			IZG	TRD 454504N 160441E 454504N 160508E	47	25/62.5			62				
I		6580	ILS/DME	4	109.500	32X		IAZ	454406N 160312E	227	25/62.5	25/100		100		27		
	ALGHERO/FERTILIA	4034	TAC			30X		IHO	TRD 463510N 081722E Alt=37 TRD 463706N 091657E 403831N 081742E 403832N 081740E		(blank)	50/250		250		43 MIL		
		5534	ILS/DME	20	110.150	38Y		IALF	Alt=23,24	24	25/62.5	25/100		100		28		
		8418	VOR/DME		111.650	53Y		AEA	403817N 081730E Alt=23		40/250	40/250		250	17	38		
	AMENDOLA	5067	TAC			99Y		MNL	413252N 154123E Alt=65		(blank)	40/250		250		39 MIL		
		36825	ILS/DME	29	108.300	20X		IMND	413244N 154144E		25/62.5	25/100		100		27 MIL		
	ANCONA/FALCONARJ	2997	TAC			35X		FAL	413214N 154332E 453437N 151758E		(blank)	200/600		600		39 MIL		
		2099	ILS/DME	22	111.900	56X		IFA	TRD 433621N 132052E 433719N 132220E 433718N 132221E	43	25/62.5	25/100		100		28		
	AOSTA	6120	VOR/DME		109.250	29Y		SCS	454445N 072019E		25/250	25/250		250	17	38		
		6121	ILS/DME	27	109.750	34Y		IAOS	TRD 454423N 072230E Alt=546	88	25/62.5	25/100		100		28		
	AQUILA/PRETURO	6484	DME			81Y		ADP	422228N 131829E		(blank)	50/250		250		37	Planned	
	AVIANO	4725	ILS/DME	5	109.500	32X		AVI	460200N 123600E		25/62.5	25/100		100		29 MIL USA		
		7161	TAC			111X		AVI	460140N 123513E		(blank)	40/250		250		37 MIL USA		
	BARI/PALESE	4807	VOR/DME		116.400	111X		BAR	410839N 164635E Alt=30		80/250	80/250		250	17	36		
		5504	ILS/DME	7	111.350	50Y		BAP	TRD 410835N 164637E 410813N 164501E 410814N 164501E	247	25/62.5	25/63		63		28		
		27643	GBAS		117.550			BRP	410813N 164501E Alt=30 TRD 454018N 094113E 453958N 094314E 454000N 094314E		23/100			100	17			
		BERGAMO/ORIO AL SERIO	4715	ILS/DME	28	108.700	24X		BRM	Alt=238,232,230	104	25/62.5	25/100		100		28	
		6228	VOR/DME		114.950	68Y		BEG	454010N 094232E		40/250	40/250		250	17	30		
		71045	VOR/DME		111.050	47Y		BRM	454023N 094054E		60/250	60/250		250	20	37		
	BIELLA	4969	VOR/DME		116.100	108X		BLA	452939N 080602E		25/250	40/250		250	17	38		
		BOLOGNA/BOR.PANIGALE	6617	ILS/DME	30	109.750	34Y		IBBP	TRD 443232N 111613E 443202N 111753E	115	25/62.5	25/100		100		28	
	BOLZANO	2119	VOR/DME		117.050	117Y		OZE	Alt=35,36 462419N 111732E		40/250	40/250		250	17	38		
		7133	ILS/DME	1	109.100	28X		IBZ	TRD 462721N 111941E	197	30/62.5	30/250		250		27		
	BRESCIA/MONTECHIAR	4613	VOR/DME		117.700	124X		BSA	452617N 101858E		40/250	40/250		250	17	38	TVOR DOPPLER	
	4614	ILS/DME	32	110.550	42Y		IBS	TRD 452621N 101859E 452518N 102030E	134	25/62.5	25/100		100		28			
	61505	VOR/DME		115.650	103Y		BSM	Alt=109,101 452621N 101910E		60/250	60/250		250	17	37	Planned		
	33566	ILS/DME	31	109.550	32Y		IBRN	TRD 404039N 175524E 403930N 175541E	134	25/62.5	60/150		150		37			
	39266	VOR/DME		113.550	82Y		BCS	403930N 175705E Alt=2		120/250	120/250		250	20	37			
	CAGLIARI/ELMAS	2125	ILS/DME	32	109.500	32X		IEL	391436N 090340E	137	25/62.5	25/100		100		32		
	2127	VOR/DME		113.400	81X		CAG	391437N 090411E Alt=1		60/400	60/400		400	17	38			
CAMERI	2129	TAC			97X		CAM	@391456N 090315E 453413N 083927E		(blank)	40/250		250		39 MIL			

COM3- List of national and international assignments in country order

CTY	Location	SAFIRE Ref	Service	Rwy Designator	VHF Channel	DME Channel	MLS Channel	Id	Co-ordinates	TRD	VHFDC	DMEDOC	MLSDOC	MaxFL	VHF EIRP	DME EIRP	Remarks	
CAMERI COMISO		27184	ILS/DME	35	108.150	18Y		ICAM	TRD 453245N 083952E 453116N 094014E	167	25/62.5	100/0		62	17	27 MIL		
		5860	VOR/DME		113.450	81Y		COM	365906N 143541E			40/250	40/250		250	17	38	
		5861	ILS	5	108.950			ICMS	TRD 370016N 143719E 365921N 143604E 385912N 170458E 390013N 170449E 390012N 170451E	228	25/62.5				62			
CROTONE		6831	ILS/DME	35	111.150	48Y		ICRT	Alt=156,158		25/62.5	25/100		100		27	Planned	
		6833	VOR/DME		117.100	118X		CRN	385946N 170459E		150/600	150/600		600	17	38		
FIRENZE/PERETOLA		2150	VOR/DME		112.500	72X		FRY	TRD 434835N 111202E Alt=38 434831N 111202E 434831N 111201E					250	17	38		
		6616	ILS/DME	5	110.300	40X		IFZ	TRD 441120N 120513E 441152N 120334E	226	25/62.5	25/100		100		29		
FORLI		2153	ILS	12	109.700			FOR	441137N 120404E Alt=28	295	25/62.5			62				
		6160	VOR/DME		115.750	104Y		FOL	TRD 441204N 120313E 441126N 120443E 441125N 120443E		40/250	40/250		250	17	38		
FROSINONE GENOVA/SESTRI		6325	ILS/DME	30	109.550	32Y		IFRL	Alt=30,27	115	25/62.5	25/100		100		27	Planned	
		7242	ILS/DME	12	110.700	44X		IFOR	TRD 441100N 120500E	295	25/62.5	25/100		100		27	Planned	
		2155	VOR/DME		115.600	103X		FRS	413833N 131732E		50/250	50/250		250	17	38	MIL	
GIOIA DEL COLLE		2156	VOR/DME		108.600	23X		SES	442502N 084925E Alt=2		40/250	40/250		250	17	38		
		2157	ILS/DME	28	109.300	30X		GSE	TRD 442500N 084922E 442432N 095112E	107	25/62.5	25/100		100		28		
		2164	TAC			125X		GIO	404808N 165645E		(blank)	150/600		600		39	MIL	
GRAZZANISE		30526	TAC			36Y		GDL	404523N 165627E		(blank)	100/300		300		37		
		30525	ILS	32L	109.950			IGDL	TRD 404642N 165507E 404523N 165627E	140	25/62.5			62		37	MIL	
		30520	VOR/DME		113.350	80Y		GDC	404645N 165507E @410336N 140519E		80/100	80/100		100	23	37	MIL	
GROSSETO		2166	TAC			122X		GRA	Alt=16		(blank)	200/600		600		39	MIL	
		6487	VOR/TAC		109.850	35Y		GRO	424637N 110439E 424538N 110438E		40/250	40/250		250	17	39	MIL	
		61248	ILS/DME	3	111.150	48Y		GRS	TRD 424626N 110452E TRD 352947N 123624E 352945N 123625E	211	25/62.5	25/100		100		27		
LAMPEDUSA		5855	ILS/DME	26	111.300	50X		ILMA	Alt=14,13 352959N 123751E 353001N 123753E	79	25/62.5	25/100		100		28		
		6506	VOR/DME		108.600	23X		LPD	Alt=21,19		80/400	80/400		400	17	37		
		2176	VOR/DME		111.200	49X		LAT	413228N 125658E Alt=18		60/250	60/250		250	17	38		
LECCE		5862	ILS/DME	12	110.350	40Y		ILAI	413200N 125509E		25/62.5	25/100		100		32	MIL	
		5116	VOR/TAC		112.800	75X		LCC	401450N 180751E Alt=60		40/250	40/250		250	20	39	MIL	
		6504	ILS/DME	32	111.750	54Y		GAL	401400N 180800E		25/62.5	25/100		100		32	MIL	
MATERA		6842	VOR/DME		109.450	31Y		MAT	402600N 163300E 452741N 091631E 452740N 091631E 452740N 091628E		25/100	25/100		100	17	29	Planned	
		6197	VOR/DME		112.250	59Y		LIN	452741N 091628E TRD 452733N 091632E 452613N 091634E 452613N 091633E		50/250	50/250		250	17	36		
		6324	ILS/DME	36	109.550	32Y		ILNT	Alt=108,103	175	25/62.5	25/100		100		28		
MILANO/MALPENSA		3598	ILS/DME	35L	109.100	28X		IMA	TRD 453648N 084417E Alt=234,213	168	25/62.5	25/100		100		28		
		5536	ILS/DME	17L	110.750	44Y		IMSL	Alt=209,229	348	25/62.5	25/100		100		28		
		5539	VOR/DME		113.350	80Y		MMP	453527N 084405E TRD 453911N 084338E 453707N 084419E 453708N 084420E		80/250	80/250		250	17	38		
NAPOLI/CAPODICHINO		5758	ILS/DME	35	109.900	36X		MLP	Alt=235,211	168	25/62.5	25/100		100		28		
		6328	ILS/DME	6	110.150	38Y		NPC	TRD 405313N 141732E 405303N 141701E 405304N 141701E	233	25/62.5	25/100		100		28		
		6630	ILS	24	109.500			INPL	TRD 405245N 141634E Alt=77,83 405328N 141757E Alt=90,70	56	25/62.5			62				
OLBIA/COSTA SMERALDA		55065	ILS/DME	24	110.950	46Y		NAP	Alt=90,70,71	56	25/62.5	25/250		250		28		
		2197	VOR/DME		113.900	86X			TRD 405421N 093163E 405346N 093038E					100				
		4664	ILS/DME	6	109.900	36X		ISM	405346N 093035E TRD 405330N 093014E	234	25/62.5	25/100		100		28		
ORISTANO/FENOSU PALERMO/PUNTA RAIS		6300	ILS/DME	23	111.300	50X		IOL	TRD 405407N 093134E 405407N 093134E 405405N 093138E	54	25/62.5	25/100		100		28		
		66125	ILS/DME	23	111.300	50X		IOLB	405407N 093138E	54	25/62.5	25/100		100		28		
		5469	DME			20Y		ORF	395346N 085843E		(blank)	25/100		100		27		
6549	GBAS		114.275			PPS	381000N 130500E		25/100			100	17					

COM3- List of national and international assignments in country order

CTY	Location	SAFIRE Ref	Service	Rwy Designator	VHF Channel	DME Channel	MLS Channel	Id	Co-ordinates	TRD	VHFDOC	DMEDEC	MLSDOC	MaxFL	VHF EIRP	DME EIRP	Remarks
	PANTELLERIA	2208	VOR/DME		116.100	108X		PAN	364852N 115757E TRD 364849N 115718E 364901N 115829E 364900N 115828E		100/500	100/500		500	17	38	
		6785	ILS/DME	26	110.900	46X		IPTL	Alt=185,180 TRD 444856N 101732E 444855N 101751E 444855N 101750E	75	25/62.5	25/100		100		28	
	PARMA	5505	ILS/DME	20	110.500	42X		IPR	Alt=50,44 430606N 123043E	16	25/62.5	25/100		100		28	
		6968	VOR/DME		109.400	31X		PRU	TRD 430638N 123106E 430525N 123048E 430525N 123048E		50/250	50/250		250	17	38	
	PESCARA	6969	ILS/DME	1	110.950	46Y		IPE	Alt=213,204 TRD 422517N 141022E 422613N 141113E 422613N 141112E	193	25/62.5	25/250		250		28	
		2212	ILS/DME	22	110.700	44X		IPS	422613N 141112E 422609N 141103E Alt=9	36	25/62.5	25/100		100		28	
	PERUGIA	2214	VOR/DME		115.900	106X		PES	TRD 422517N 141022E 422613N 141113E		80/500	80/500		500	23	37	
		39805	ILS/DME	22	110.700	44X		IPSC	422613N 141112E 445502N 094314E	36	25/62.5	25/100		100		27	
	PIACENZA	2216	TAC			121X		PIA	445502N 094314E		(blank)	40/250		250		39 MIL	
		2217	TAC			20X		FIN	434313N 102556E Alt=13		(blank)	40/250		250		39 MIL	
	PISA/SAN GIUSTO	2218	ILS	04R	109.700			IPR	TRD 434150N 102430E 434033N 102328E	215	25/62.5	80/500	60/500	500	17	38 MIL	
		2220	VOR/DME		112.100	58X		PIS	TRD 434150N 102430E 434033N 102328E		80/500	60/500		500	17	38 MIL	
	PRATICA DI MARE	63485	ILS/DME	04R	108.700	24X		PSS	434033N 102328E	220	25/62.5	25/25		62		27 MIL	
		2223	TAC			32X		TPR	413718N 122938E Alt=31		(blank)	40/250		250		39 MIL	
	REGGIO CALABRIA	5065	ILS/DME	31	109.550	24Y		PRA	414000N 122600E		25/62.5	25/100		100		28 MIL	
		5761	ILS/DME	33	109.300	30X		REG	TRD 380245N 153952E Alt=84 @380436N 153843E	197	25/62.5	25/100		100		28	
	REGGIO EMILIA	6834	VOR/DME		111.000	47X		RCA	Alt=18		80/250	80/250		250	17	38	
		5265	DME			29Y		RGM	444142N 104008E Alt=48		(blank)	40/250		250		28	Planned
	RIMINI	2228	ILS	31	109.300			MIR	TRD 440100N 123715E Alt=7 440055N 123700E	126	25/62.5			62		MIL	
		2229	VOR/TAC		116.200	109X		RIM	Alt=17,10		40/250	40/250		250	17	39 MIL	
	ROMA/CIAMPINO	43727	DME			25X		RMN	440181N 123716E		(blank)	45/250		250		27	
		2234	VOR/DME		110.800	45X		ROM	414817N 123817E TRD 414719N 123688E		40/250	40/250		250	17	38 MIL	
	ROMA/FIUMICINO	31145	ILS/DME	15	110.550	42Y		ICIA	414819N 123522E Alt=134,105	330	25/62.5	25/100		100		27	
		54365	VOR/DME		110.800	45X		RMC	414817N 123817E		40/250	40/250		250	17	38	
	ROMA/FIUMICINO	2199	VOR/DME		114.900	96X		OST	@414814N 121415E TRD 414907N 121330E		150/500	150/500		500	17	38	
		2239	ILS/DME	34L	108.900	26X		IFSW	414704N 121416E 414704N 121416E Alt=1	161	25/62.5	25/100		100		28	
	TORTOLI	4649	ILS/DME	16C	108.500	22X		FNN	TRD 414831N 121634E 415003N 121542E	341	25/62.5	25/100		100		28	
		5507	ILS/DME	34R	111.550	52Y		FSS	414827N 121554E Alt=1 TRD 414858N 121634E 414856N 121635E	161	25/62.5	25/100		100		28	
	TRAPANI/BIRG	5771	ILS/DME	34C	108.500	22X		FCC	TRD 414858N 121635E 414858N 121635E	161	25/62.5	25/100		100		28	
		6327	ILS/DME	25	110.150	38Y		FEE	TRD 414836N 121555E 414836N 121554E	68	25/62.5	25/100		100		28	
	TRENTO/MATTARELLO	7239	ILS/DME	16L	108.100	18X		IFLL	TRD 414833N 121637E 415037N 121551E	341	25/62.5	25/100		100		28	ID IFLL AND DME PLANNED 2013
		7312	ILS/DME	16R	108.750	34Y		IFRN	TRD 414643N 121430E 414844N 121334E	341	25/62.5	25/100		100		28	PLANNED 2013
	TREVISO/ISTRANA	4711	VOR/DME		110.450	41Y		PTC	403712N 145430E Alt=3		40/250	40/250		250	17	38	TVOR
		4712	TAC			115X		GRT	402921N 12439E Alt=65 TRD 403140N 12402E 403007N 12402E		(blank)	40/250		250		38	MIL M.M.
	TORINO/CASELLE	5796	ILS/DME	35	108.350	20Y		ITGT	403007N 12402E 403007N 124249E	166	25/62.5	25/100		100		28	
		5877	VOR/DME		110.200	39X		TAG	403035N 124249E Alt=61		25/100	25/100		100	17	38	
	TORTOLI	2258	VOR/DME		111.800	55X		TAQ	421254N 114357E Alt=17		40/250	40/250		250	17	38	
		2260	TAC			32X		CSL	451138N 073910E		(blank)	40/250		250		39 MIL	
	TRAPANI/BIRG	2263	VOR/DME		116.750	114Y		CAS	451138N 073910E TRD 451311N 073903E 451130N 073903E		48/250	45/250		250	17	37	
		8314	ILS/DME	36	108.700	24X		ITOC	451130N 073904E Alt=33,285,285	182	25/62.5	25/100		100		28	
	TRENTO/MATTARELLO	4029	VOR/DME		116.000	107X		ARB	395500N 094100E		25/100	25/100		100	17	36	Planned
		2266	VOR/TAC		108.800	25X		TRP	375345N 123048E Alt=29 TRD 375916N 122820E		80/500	200/500		500	17	39 MIL	
	TREVISO/ISTRANA	5068	ILS/DME	31L	110.950	46Y		TRA	375428N 123048E	126	25/62.5	25/100		100		28	MIL
		4713	VOR/DME		115.350	100Y		TNT	460113N 110824E		40/250	40/250		250	17	38	
	TRENTO/MATTARELLO	4714	ILS/DME	36	111.550	52Y		ITN	460100N 110800E		25/62.5	25/100		100		28	Planned
		2270	TAC			80X		ISA	454115N 120701E Alt=40		(blank)	220/600		600		39 MIL	
	TRENTO/MATTARELLO	4699	ILS/DME	36	108.750	24Y		IVE	454400N 090800E		25/62.5	25/100		100		29	Planned
		2276	VOR/DME		115.300	100X		TES	453109N 122206E Alt=2 TRD 453107N 122209E		40/250	40/250		250	17	38	
	TRENTO/MATTARELLO	5509	ILS/DME	4	109.950	36Y		VTS	452943N 122230E 452942N 122031E 452942N 105422E	220	25/62.5	25/100		100		28	
		2280	VOR/TAC		115.800	105X		VIL	452430N 105424E		60/400	60/400		400	17	38	MIL

## COM3- List of national and international assignments in country order

CTY	Location	SAFIRE Ref	Service	Rwy Designator	VHF Channel	DME Channel	MLS Channel	Id	Co-ordinates	TRD	VHFDOC	DMEDOC	MLSDOC	MaxFL	VHF EIRP	DME EIRP	Remarks
									TRD 452428N 105421E 452326N 105242E 452325N 105242E								
	VERONA/VILLAFRANCA	41392	ILS/DME	4	111.750	54Y		IVRN	Alt=68,86 453814N 114039E	224	25/62.5	25/100		100		27	
	VICENZA	2281	VOR/DME		113.400	81X		VIC	Alt=58,96		80/500	80/500		500	23	38	
	CERVIA	2138	TAC			83X		CEV	441223N 122126E		(blank)	40/250		250		39 MIL	
	SIGONELLA	5069	ILS/DME	11	110.350	40Y		CER	TRD 441400N 121800E	294	25/62.5	25/100		100	20	27 MIL	
		2252	TAC			49X		NSY	372400N 145500E		(blank)	40/250		250		39 MIL USAF	
		2253	TAC			55X		SIS	372348N 145518E Alt=25		(blank)	200/600		600		39 MIL	
		6170	ILS/DME	10R	108.150	18Y		INSY	TRD 372400N 145700E	276	25/62.5	28/100		100		20 MIL USAF	
		6821	GBAS		113.950			SGN	372400N 145500E		100/600			600	19	MIL USAF	
	PALERMO/PUNTA RAIS	2205	VOR/DME		113.000	77X		PRS	381019N 130448E Alt=4		40/250	40/250		250	17	38	
									TRD 380954N 130508E 381053N 130533E								
		6421	ILS/DME	20	110.550	42Y		ITO	381053N 130532E	22	25/62.5	25/100		100		28	
									TRD 381025N 130505E 381100N 130701E 381050N 130701E								
	NOVARA	6629	ILS/DME	25	109.500	32X		RAI	Alt=8,18,20	65	25/62.5	25/100		100		28	
		6174	DME			53Y		NOV	452827N 084738E		(blank)	50/250		250		37	
									TRD 452809N 150445E 372753N 150330E								
	CATANIA/FONTANAROS	2135	ILS/DME	8	109.900	36X		CTN	372752N 150330E	262	25/62.5	25/100		100		28	
		5951	VOR/DME		116.250	109Y		CTF	372752N 150344E Alt=5		200/500	200/500		500	23	38	
	LAMEZIA/TERME	2172	VOR/DME		112.500	72X		LMT	385416N 161556E Alt=14		25/100	25/100		100	17	38	
									TRD 385426N 161534E 385411N 161503E								
	FOGGIA	5930	ILS/DME	28	110.300	40X		LAM	385410N 161503E	96	25/62.5	25/100		100		28	
		5926	VOR/DME		116.900	105X		FGG	412546N 153153E Alt=85		40/250	40/250		250	17	38	
	NAPOLI	2194	VOR/DME		116.950	129Y		PCH	405542N 142300E		40/250	40/250		250	17	38	
		5880	VOR/DME		116.950	116Y		PDM	405500N 142300E		40/250	40/250		250	17	38 planned 2021	
									TRD 454940N 132928E 454946N 132715E								
	RONCHI DE LEGIONARI	5508	ILS/DME	8	110.750	44Y		RNC	Alt=1,1,10 @443213N 111726E	268	25/62.5	25/100		100		28	
	BOLOGNA/BORGO PANI	2113	VOR/DME		117.100	118X		BOA	Alt=35		50/400	120/400		400	17	38	
	PERDASDEFUGU	5156	TAC			27X		PED	394009N 092638E		(blank)	40/250		250		40 MIL	
	RONCHI DEI LEGIONAR	5087	VOR/DME		114.200	89X		RCH	454847N 132849E Alt=12		40/250	40/250		250	17	38	
	ALBENGA	4918	VOR/DME		116.850	116Y		ALB	440253N 080738E Alt=41		40/250	40/250		250	17	38	
		4982	ILS	27	108.900			LBN	TRD 440257N 080712E	89	25/62.5			62			
	VOGHERA	36186	VOR/DME		110.450	41Y		VOG	445752N 085813E		40/250	40/250		250	17	37	
	VIESTE	2282	VOR/DME		112.600	73X		VIE	415446N 160257E		80/500	80/500		500	23	38	
	TREZZO	36185	VOR/DME		117.250	119Y		TZO	453338N 080326E		60/500	60/500		500	17	37	
	TREVISIO/S. ANGELO	2272	ILS	7	109.300			TRE	TRD 453911N 121241E 453849N 121103E	247	25/62.5			62		MIL	
		33565	ILS/DME	7	108.150	18Y		ITRE	TRD 453911N 121241E 453849N 121103E	247	25/62.5	60/150		150		37 planned 2022	
		41870	DME			22Y		ITEV	453851N 121101E		(blank)	60/150		150		37 planned 2020	
									@445531N 075142E								
	TORINO/POIRINO	2265	VOR/DME		114.500	92X		TOP	Alt=248		200/600	200/600		600	17	36	
	TEANO	2259	VOR/DME		112.900	76X		TEA	@411748N 135814E Alt=995		100/500	150/500		500	17	37	
									@403457N 142007E								
	SORRENTO	2256	VOR/DME		112.200	59X		SOR	Alt=497		120/500	120/500		500	17	38	
	SIENA	2250	VOR/DME		110.200	39X		SIE	431510N 111511E		25/100	25/100		100	17	38	
	SARONNO	2248	VOR/DME		113.700	84X		SRN	453845N 090118E		100/500	100/500		500	17	38	
	RIVOLTO	2230	TAC			37X		RIV	455945N 130518E Alt=71		(blank)	40/250		250		39 MIL	
	PONZA	2221	VOR/TAC		114.600	93X		PNZ	405443N 125727E		200/600	200/600		600	17	39 MIL	
	PALERMO	2204	VOR/DME		112.300	70X		PAL	380201N 131039E		200/500	200/500		500	17	36	
	ORTANOVA	2198	TAC			90X		ORT	412400N 154705E Alt=16		(blank)	130/350		350		39 MIL	
									TRD 443212N 073649E 443314N 073738E								
	CUNEO/LEVELDIGI	2160	ILS	21	110.950			LEV	Alt=388,373	32	25/62.5			62			
	GHEDI	2160	MLS/DME			20Y	546	GHE	452600N 101600E		(blank)	23/100		100		27 MIL OP	
		2161	TAC			46X		GHE	452623N 101551E		(blank)	150/600		600		39 MIL	
									452633N 101518E 452632N 101631E								
	GENOVA	38826	ILS/DME	31	110.150	38Y		IGD	452830N 101629E		25/62.5	25/100		100		27 MIL	
		2159	VOR/DME		112.800	75X		GEN	442528N 090456E		60/450	60/450		450	17	38	
	ELBA	2147	VOR/TAC		114.700	94X		ELB	424350N 102345E		200/600	200/600		600	17	39 MIL	
	DECIMOMANNU	2143	TAC			19X		IDEC	392282N 085756E Alt=34		(blank)	200/600		600		DEC MIL	
		73826	ILS/DME	35R	109.950	36Y		IDEC	TRD 392209N 085809E	347	25/62.5	25/64		64		27 MIL	
	CHIOGGIA	2139	VOR/DME		114.100	88X		CHI	450416N 121653E Alt=0		80/500	80/500		500	17	38	
	CARBONARA CARAFFA	2132	VOR/DME		115.100	98X		CAR	@390641N 093029E Alt=4		130/500	130/500		500	17	38	
		2131	VOR/TAC		117.300	120X		CDC	384521N 162208E		200/600	200/600		600	17	39 MIL	
									@420726N 122254E								
	CAMPAGNANO	2130	VOR/DME		111.400	51X		CMP	Alt=428		70/250	70/250		250	17	37	
	ANCONA	2096	VOR/DME		110.650	43Y		ANC	433511N 132815E		100/500	100/500		500	17	36	
	ALL ITALY	2087	ILS		108.500			ITA	ALL ITALY(LAND) (*)		25/62.5			62			
		2087	TAC			26Y			ALL ITALY(LAND)		(blank)	40/250		250		40 MIL	
		2088	TAC			34X			ALL ITALY(LAND)		(blank)	40/250		250		40 MIL	
		2089	TAC			38X			ALL ITALY(LAND)		(blank)	40/250		250		40 MIL	
		2090	TAC			54X			ALL ITALY(LAND)		(blank)	40/250		250		40 MIL	
		2091	VOR/DME		112.000	57X		ITA	ALL ITALY(LAND)		40/250	40/250		250	17	36	
		2094	TAC			112Y			ALL ITALY(LAND)		(blank)	40/250		250		40 MIL	
									@403742N 081436E								
	ALGHERO	2081	VOR/TAC		113.800	85X		ALG	Alt=443		200/500	200/500		500	17	38 MIL	

## COM3- List of national and international assignments in country order

CTY	Location	SAFIRE Ref	Service	Rwy Designator	VHF Channel	DME Channel	MLS Channel	Id	Co-ordinates	TRD	VHFDOC	DMEDOC	MLSDOC	MaxFL	VHF EIRP	DME EIRP	Remarks
I	BOLOGNA/BORGO PANIGALE	5323	ILS/DME	12	108.900	26X		IBLN	TRD 443145N 111821E 443224N 111659E								
	TREVISO/S.ANGELO	37532	VOR/DME		114.350	90Y		TVS	443224N 111651E Alt=35.34	295	25/62.5	25/100		100	20	37	planned 2021
									453900N 121124E		60/250	60/250		250			
IRL	CARRICKFINN CASEMENT	2285	ILS/DME	21	110.300	40X		IBLN	TRD 550216N 082043W		20	25/62.5	25/100	100			27 No GP?
		2286	VOR/DME		115.800	105X		BAL	550220N 082022W 531800N 062652W			80/350	80/350	350	17	42	
	CONNAUGHT	5267	ILS/DME	10	109.350	30Y		IB	TRD 531803N 062621W 531811N 062754W	282	25/62.5	25/250		250			27 MIL
		2289	VOR/DME		117.400	121X		CON	535429N 084912W TRD 535428N 085019W			100/500	100/500	500	20	39	
		6159	ILS/DME	26	110.700	44X		ICK	535439N 084820W 535434N 084902W	79	25/62.5	25/100		100			27
	CORK/CORK	2292	ILS/DME	16	109.900	36X		ICS	TRD 514950N 082905W 515050N 082948W	340	25/62.5	25/100		100			27
	DUBLIN	5409	ILS/DME	34	109.150	28Y		ICN	TRD 515105N 082949W 515006N 082921W	160	25/62.5	25/100		100			27
		2295	VOR/DME		114.900	96X		DUB	515006N 082921W @532958N 061826W			150/500	150/500	500	20	39	
	DUBLIN/DUBLIN	2297	ILS/DME	10	108.900	26X		IDE	TRD 532512N 061444W 532516N 061706W	275	25/62.5	25/100		100			27
		2303	ILS/DME	16	111.500	52X		IAC	TRD 532506N 061454W 532603N 061543W	337	25/62.5	25/100		100			27
		5407	ILS/DME	28	111.350	50Y		IDW	TRD 532522N 061744W 532510N 061518W	95	25/62.5	25/100		100			27
	GORMANSTON	5575	VOR/DME		111.200	49X		DAP	532525N 061810W 533848N 061406W		150/350	150/350		350	17	39	
		2306	DME			78X		GMN	(blank)			60/250		250			37
	SHANNON/SHANNON	2309	ILS/DME	6	109.500	32X		ISE	TRD 524147N 085623W 524316N 085307W	232	25/62.5	25/100		100			27
		2311	VOR/DME		113.300	80X		SHA	524316N 085307W TRD 524129N 085650W			100/500	100/500	500	17	39	
	SLIGO	5408	ILS/DME	24	110.950	46Y		ISW	524222N 083230W 541646N 083600W	52	25/62.5	25/100		100			27
		2313	DME			27X		SLG	(blank)			25/250		250			27
	WATERFORD	2314	ILS/DME	21	110.900	46X		IWD	TRD 521039N 070535W 521123N 070514W	21	25/62.5	25/100		100			27
	WESTON	5324	VOR/DME		114.700	94X		WST	521120N 070727W 532110N 062938W		30/100	30/100		100	17	27	
	MOHERCROM	5279	DME			91X		MCM	535437N 065405W 530545N 073529W		(blank)	200/550		550			39 ELEVATION SITE 115 FT
	WOLFTRAP	5277	DME			110X		WTP	530545N 073529W TRD 521039N 070535W		(blank)	200/550		550			39
									521102N 093053W								
	KERRY	5241	ILS/DME	26	108.700	24X		IKR	521056N 093128W 515026N 082939W	71	25/62.5	25/100		100			27
	CORK	2290	VOR/DME		114.600	93X		CRK	515026N 082939W 529111N 060644W		80/500	80/500		500	20	39	
ISR	GLENTHEIGE	5278	DME			88Y		GTG	529111N 060644W 295800N 345890E		(blank)	200/550		550			39 ELEVATION SITE 971 FT
	OVDA	2358	VOR/DME		114.100	88X		OTD	295800N 345890E TRD 295635N 345557E		25/100	25/100		100	17	30	TVOR
		30110	ILS/DME	21	109.700	34X		ZFR	295659N 345611E 303332N 350943E Alt=60	23	25/62.5	20/100		100			24
	ZOFAR	2366	VOR/DME		115.600	103X		VFA	303332N 350943E Alt=60 320000N 352309E		40/500	100/500		500	17	37	
	TEL AVIV/BEN GURIO	2365	VOR/DME		115.400	101X		RB	320000N 352309E 312000N 352309E		100/500	100/500		500	17	37	
	METZADA	2356	VOR/DME		115.000	97X		MZD	312000N 352309E 311710N 344318E		50/500	40/500		500	17	28	
	BEER SHEBA	2352	VOR/DME		114.300	90X		BSA	311710N 344318E ALL ISRAEL(LAND)*		40/500	40/500		500	17	37	
	ALL ISRAEL	2338	ILS		111.100				25/62.5		62			62			Planned
		2340	VOR/TAC		113.700	84X			40/250		40/250		250	17	40	TEST	
		2341	TAC			87X			(blank)		40/250		250				40 MOBILE
		2344	VOR/TAC		114.900	96X			40/250		40/250		250	17	40	MOBILE	
		2346	VOR/TAC		115.800	105X			40/250		40/250		250	17	40	MOBILE	
	TEL-AVIV/BEN-GURION AIRPORT	2347	TAC			106X			40/250		40/250		250			40 TEST	
		2360	ILS/DME	26	108.700	24X		BA	Alt=49 320038N 345307E		25/62.5	25/100		100			29
		2364	ILS/DME	30	111.900	56X		BD	320038N 345307E TRD 315954N 345349E		25/62.5	25/100		100			29
		28104	ILS/DME	21	109.700	34X		BN	Alt=40 TRD 320108N 345405E	34	25/62.5	25/100		100			29
		30403	ILS/DME	8	110.900	46X		BC	Alt=49 320042N 345208E Alt=42	256	25/62.5	25/100		100			29
		30401	ILS/DME	12	110.300	40X		BG	320042N 345208E Alt=42 325857N 353422E		25/62.5	25/100		100			29
	ROSH-PINA	2345	VOR/DME		115.300	100X		RDP	325857N 353422E 294418N 350102E		20/500	200/500		500	17	30	
	RAMON (TIMNA)	31010	VOR/DME		113.850	85Y		RAM	294418N 350102E RC TRD 294418N 350102E		200/500	200/500		500	17	37	
		31009	ILS/DME	1	108.700	24X		RC	TRD 294418N 350102E RB TRD 294232N 350032E	193	25/62.5	25/100		100			29
		38185	ILS/DME	19	110.500	42X		RB	TRD 294232N 350032E MZD 322012N 345890E Alt=30	13	25/62.5	25/100		100			29
	NATANIA/OLESH	2357	VOR/DME		112.400	71X		MZD	322012N 345890E Alt=30 LOT 293629N 345835E		200/500	200/500		500	17	37	
	EILOT	2355	VOR/DME		112.000	57X		LOT	293629N 345835E 454952N 620739E		30/500	30/500		500	17	28	
KAZ	NOVOKAZALINSK	66429	VOR/DME		113.600	83X		NKZ	454952N 620739E 441344N 795719E		100/500	100/500		500	20	30	
	JARKENT	66428	VOR/DME		114.800	95X		JRK	441344N 795719E 452023N 650971E		100/500	100/500		500	20	30	
	BEINEU	66427	VOR/DME		115.000	97X		BNJ	452023N 650971E 475552N 802659E		100/500	100/500		500	20	30	
	AYAGUZ	66426	VOR/DME		113.600	83X		AGZ	475552N 802659E 501905N 670119E		100/500	100/500		500	20	30	
	ARKALYK	66425	VOR/DME		113.000	77X		ARK	501905N 670119E TRZ 425214N 711654E		100/500	100/500		500	20	30	
	TARAZ	66385	VOR/DME		115.900	106X		TRZ	425214N 711654E TRD 425224N 711914E		100/500	100/500		500	20	30	
		63859	ILS/DME	13	109.700	34X		IMB	425148N 711720E 435220N 510352E	137	25/62.5	25/100		100			24
	AKTAU	66366	VOR/DME		113.300	80X		AKT	435220N 510352E 435131N 510662E		100/500	100/500		500	20	30	
		63672	VOR/DME		113.300	80X		AKT	435131N 510662E TRD 435219N 510354E		100/500	100/500		500	20	30	
		63670	ILS/DME	30	111.100	48X		ITA	435119N 510617E TRD 435202N 510445E	303	25/62.5	25/100		100			24
		63669	ILS/DME	12	109.500	32X		IAU	435053N 510700E TRD 500249N 823232E	123	25/62.5	25/100		100			24
	UST-KAMENOGORSK	64505	ILS/DME	30	109.700	34X		ISI	TRD 500122N 823107E 500236N 822907E	311	25/62.5	25/100		100			29
		63879	ILS/DME	12	111.700	54X		IUS	500236N 822907E 500158N 823030E	131	25/62.5	25/100		100			24
		63878	VOR/DME		115.000	97X		UKM	500158N 823030E TRD 531811N 062754E		100/490	100/490		490	20	30	
	KOKSHETAU	64266	ILS/DME	20	109.500	32X		IKW	532017N 693623E 532103N 693701E	212	25/62.5	25/100		100			24
		63758	VOR/DME		115.500	102X		KTU	532103N 693701E 532103N 693701E		100/500	100/500		500	20	30	



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CTY	Location	SAFIRE Ref	Service	Rwy Designator	VHF Channel	DME Channel	MLS Channel	Id	Co-ordinates	TRD	VHFDOC	DMEDOC	MSLDOC	MaxFL	VHF EIRP	DME EIRP	Remarks
	KOKSHETAU	63755	ILS/DME	2	110.300	40X		IOT	TRD 532052N 693650E 531918N 693522E	32	25/62.5	25/100		100		24	
	NUR-SULTAN	64265	ILS/DME	4	109.500	32X		IMO	TRD 510220N 712937E 510046N 712712E	45	25/62.5	25/100		100		24	
		63716	ILS/DME	22	111.700	54X		IAK	TRD 510019N 712621E 510151N 712854E	225	25/62.5	25/100		100		24	
	ZHEZKAZGAN	63714	VOR/DME		114.400	91X		AST	510006N 712609E		100/500	100/500		500	20	30	
		63886	VOR/DME		113.300	80X		DZG	474311N 674530E		100/500	100/500		500	20	30	
	URALSK	63883	ILS/DME	22	110.700	44X		IGN	TRD 474150N 674259E 474249N 674502E	232	25/62.5	25/100		100		30	
		63868	VOR/DME		114.200	89X		URL	510858N 513238E		100/500	100/500		500	20	30	
		63866	ILS/DME	4	111.300	50X		ISK	TRD 510849N 513403E 510843N 513158E	52	25/62.5	25/100		100		24	
	TALDYKORGAN	63865	ILS/DME	22	109.700	34X		IUR	TRD 510826N 513111E 510926N 513326E	232	25/62.5	25/100		100		30	
	SHYMKENT	63851	VOR/DME		116.100	108X		TDK	450828N 702548E		100/500	100/500		500	20	30	
		63849	VOR/DME		113.000	77X		SMK	422220N 692631E		100/500	100/500		500	20	30	
		63847	ILS/DME	28	110.300	40X		IIM	TRD 422213N 692702E 422137N 692923E	286	25/62.5	25/100		100		24	
		63846	ILS/DME	10	111.700	54X		IEN	TRD 422202N 692731E 422202N 692731E	106	25/62.5	25/100		100		24	
	SEMEY PETROPAVLOVSK	63826	ILS/DME	26	110.300	40X		ISP	TRD 502059N 801214E 502104N 801445E	264	25/62.5	#####		62		24	
		63805	VOR/DME		112.800	72X		PSK	544738N 691809E		100/500	100/500		500	20	30	
		63803	ILS/DME	23	108.300	20X		IPT	TRD 544660N 690911E 544641N 691209E	246	25/62.5	25/100		100		30	
	PAVLODAR	63800	ILS/DME	21	110.700	44X		IPW	TRD 521654N 770310E 521549N 770310E	223	25/62.5	25/100		100		30	
	KYZYLORDA	63799	VOR/DME		114.000	87X		PVL	521235N 770542E		100/500	100/500		500	20	30	
		63797	VOR/DME		112.700	74X		KZO	444145N 653349E		100/500	100/500		500	20	30	
		63795	ILS/DME	5	111.100	48X		IKZ	TRD 444259N 653658E 444259N 653658E	61	25/62.5	25/100		100		24	
	KOSTANAY	63790	VOR/DME		114.800	95X		KST	531113N 633346E		100/500	100/500		500	20	30	
		63789	ILS/DME	33	110.700	44X		INA	TRD 531329N 633212E 531157N 633311E	337	25/62.5	25/100		100		24	
	KARAGANDA	63788	ILS/DME	15	111.700	54X		IKT	TRD 531211N 633343E 531253N 633230E	157	25/62.5	25/100		100		24	
		63753	VOR/DME		113.400	81X		KRG	494112N 732145E		100/500	100/500		500	20	30	
		63751	ILS/DME	23	111.700	54X		IKA	TRD 493937N 731823E 494040N 732118E	238	25/62.5	25/100		100		24	
	BALKHASH ATYRAU	63750	ILS/DME	5	109.900	36X		IRG	TRD 494103N 732158E 493949N 731909E	58	25/62.5	25/100		100		24	
		63728	VOR/DME		113.700	84X		BLH	465259N 745902E		100/500	100/500		500	20	30	
		63725	VOR/DME		112.300	70X		ATR	470638N 514846E		100/500	100/500		500	20	30	
		63723	ILS/DME	32	108.300	20X		IAY	TRD 470620N 515003E 470620N 515003E	330	25/62.5	25/100		100		24	
		63722	ILS/DME	14	109.900	36X		ITY	470751N 514839E	150	25/62.5	25/100		100		24	
	AKTOBE	63706	ILS/DME	31	110.500	42X		ITU	TRD 501548N 571049E 501413N 571258E	315	25/62.5	25/100		100		24	
		63705	ILS/DME	13	111.700	54X		IAT	TRD 501349N 571348E 501513N 571126E	135	25/62.5	25/100		100		24	
		63673	VOR/DME		113.400	81X		AKB	501548N 571049E		100/500	100/500		500	20	30	
	ALMATY	63667	ILS/DME	23R	111.300	50X		IAA	TRD 432211N 770402E 432224N 770439E	236	25/62.5	25/100		100		24	
		63666	ILS/DME	05L	108.100	28X		IMA	TRD 432059N 770439E 432207N 770422E	56	25/62.5	25/100		100		24	
		63665	ILS/DME	23L	108.100	18X		IAL	TRD 432019N 770439E 432139N 770335E	236	25/62.5	25/100		100		24	
		63646	ILS/DME	05R	110.300	40X		ILM	TRD 432031N 770118E 432236N 770503E	56	25/62.5	25/100		100	14	20	
		63645	VOR/DME		116.400	111X		ATA	432236N 770503E		100/500	100/500		500	20	30	
LTU	KAUNAS	3505	VOR/DME		114.400	91X		KNA	TRD 545737N 240359E 545750N 240649E		100/500	100/500		500	20	37	
		5233	ILS/DME	8	109.500	32X		IKM	545743N 240408E	265	25/62.5	25/100		100		33	RAFT Action 12/16 - modification DME EIRP
		6730	ILS/DME	26	109.900	36X		ISE	TRD 545745N 240322E 545749N 240609E	85	25/62.5	25/100		100		27	
	PALANGA	5306	ILS/DME	19	110.100	38X		IAN	TRD 555736N 210519E 555844N 210554E	13	25/62.5	25/100		100		27	
		5440	DME			95X		PLG	555724N 210513E Alt=22		(blank)	100/500		500		37	
	SIAULIAI	4035	VOR/DME		115.200	99X		SAU	TRD 565249N 232459E 565249N 232459E		100/500	80/500		500	23	37	DVOR. Modification - increase of VHFpwr
		4036	ILS/DME	14L	108.300	20X		ISZ	TRD 555418N 232302E 555434N 232235E	326	25/62.5	25/100		100		27	DME added
		4037	ILS/DME	32R	108.700	24X		IDL	TRD 555301N 232434E 555400N 232404E	146	25/62.5	25/100		100		27	DME added
		5336	TAC			104X		SLA	555400N 232404E		(blank)	100/500		600		30	MIL
		5337	TAC			110X		SQO	555326N 232409E		(blank)	100/500		500		30	MIL
		5338	TAC			116X		SLI	555400N 232400E		(blank)	100/600		600		30	MIL
	VILNIUS	3377	VOR/DME		113.800	85X		VNO	TRD 543910N 251737E 543959N 251635E		100/500	100/500		500	17	37	
		5396	ILS/DME	19	108.100	28X		IBK	TRD 543829N 251734E 543855N 251745E	22	25/62.5	25/100		100		27	
	KLAIPEDA	5397	ILS/DME	1	110.500	42X		IAV	TRD 543734N 251656E	202	25/62.5	25/100		100		27	
		4373	VOR/DME		113.300	86X		IBK	543734N 251656E					100		27	
		27114	VOR/DME		115.000	97X		KLP	554256N 211437E		80/500	100/500		500	20	37	
	ALL LITHUANIA	5174	TAC			26Y			ALL LITHUANIA(LAND)		(blank)	40/250		250		40	MIL
		5175	TAC			34X			ALL LITHUANIA(LAND)		(blank)	40/250		250		40	MIL
		5176	TAC			54X			ALL LITHUANIA(LAND)		(blank)	40/250		250		40	MIL
		5177	TAC			112Y			ALL LITHUANIA(LAND)		(blank)	40/250		250		40	MIL
		5178	TAC			40Y			ALL LITHUANIA(LAND)		(blank)	40/250		250		40	MIL

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CTY	Location	SAFIRE Ref	Service	Rwy Designator	VHF Channel	DME Channel	MLS Channel	Id	Co-ordinates	TRD	VHFDOC	DMEDOC	MLSDOC	MaxFL	VHF EIRP	DME EIRP	Remarks	
LTU	ALL LITHUANIA	5179	TAC			44Y			ALL LITHUANIA(LAND)		(blank)	40/250			250		40 MIL	
		5180	TAC			50X			ALL LITHUANIA(LAND)		(blank)	40/250			250		40 MIL	
		33747	DME			114X			542103N 244813E		(blank)	100/500			500		37	
		33746	DME			72X			544031N 244132E		(blank)	100/500			500		37	
		37628	DME			119Y			545538N 251423E		(blank)	100/500			500		37	
LUX	LUXEMBOURG/LUXEMBO	2428	ILS/DME	6	109.900	36X		ILE	TRD 493919N 061438E						100		29 L	
		4964	ILS/DME	24	110.700	44X		ILW	493759N 061359E	240	25/62.5	25/100			100		27	
		5610	VOR/DME		112.250	59Y		LUX	493922N 061450E		60/250	60/250			250	17	37	
		2427	VOR/DME		114.400	91X		DIK	@495141N 060747E		100/500	100/500			500	17	39	
		6026	ILS/DME	24	108.550	22Y		LPJ	563114N 210624E	70	25/62.5	25/100			100		27	
LVA	LIEPAJA	6128	VOR/DME		116.950	116Y		LEP	563046N 210505E		150/600	150/600			600	13	37 DVOR	
		5731	VOR/DME		112.050	57Y		RIA	565519N 235755E		195/500	150/500			500	13	37 RiGA airport[Will be deleted after installation frequency change to 3LVA6418	
		6115	ILS/DME	36	108.100	18X		IRP	TRD 565626N 235929E	185	25/62.5	25/100			100		27	
		6131	ILS/DME	18	111.100	48X		IRV	TRD 565404N 235803E	5	25/62.5	25/100			100		27	
		30207	TAC				34X	MIL	565556N 235814E		(blank)	40/250			250		40 MIL Mobile TAC	
		30853	TAC				112Y	MIL	ALL LATVIA 2014 TAC(Latvia FIR),ALL		(blank)	40/250			250		40 MIL Mobile TAC	
		30852	TAC				26Y	MIL	ALL LATVIA 2014 TAC(Latvia FIR),ALL		(blank)	40/250			250		40 MIL Mobile TAC	
		30851	TAC				54X	MIL	ALL LATVIA 2014 TAC(Latvia FIR),ALL		(blank)	40/250			250		40 MIL Mobile TAC	
		64185	VOR/DME		114.000	87X		RIA	TRD 565518N 235755E	319	160/500	160/500			500	13	37 RiGA airport	
		64185	VOR/DME		114.000	87X		RIA	TRD 565522N 231430E	139	160/500	160/500			500	13	37 RiGA airport	
TUKUMS	TUKUMS	6602	ILS/DME	13	110.300	40X		TKS	565658N 231254E		25/62.5	25/100			100		27 Airport under development	
		6603	ILS/DME	31	110.300	40X		TMS	TRD 565600N 231300E	139	25/62.5	25/100			100		27 Airport under development	
		6602	VOR/DME		112.300	70X		TLK	565550N 231424E		100/500	100/500			500	13	37	
		5873	VOR/DME		117.850	125Y		VEN	572042N 213138E		170/500	150/500			500	13	37	
		5451	VOR/DME		112.900	76X		LBN	564624N 262108E		170/460	150/460			460	13	37	
		5448	VOR/DME		114.100	88X		DGP	555650N 264032E		170/460	150/460			460	13	37	
		32706	VOR/DME		108.600	23X		LLR	564532N 245057E		60/100	60/100			100	20	40 MIL	
		32705	ILS/DME	18	111.500	52X		LDE	TRD 564644N 245114E	180	25/62.5	25/100			100		27 MIL	
		64210	DME			33Y		RSK	571839N 260915E		(blank)	160/500			500		37 For PBN implementation	
		64209	DME			45X		RDB	563821N 215334E		(blank)	160/500			500		37 For PBN implementation	
MDA	CHISINAU	5787	ILS/DME	26	109.900	36X		ILD	TRD 465538N 285414E	88	25/62.5	25/100			100		27	
		6896	ILS/DME	8	110.300	40X		IRG	TRD 465542N 285728E	268	25/62.5	25/100			100		27	
		7157	VOR/DME		113.700	84X		KIV	465534N 285414E		200/400	200/400			400	20	37 DVOR	
		3287	ILS	1	108.900			MOH	TRD 411136N 204453E	198	25/62.5	25/100			62			
		3288	VOR/DME		112.500	72X		OHR	411021N 204411E		60/250	60/250			250	17	37 DVOR	
		3302	VOR/DME		112.800	75X		SKJ	415606N 213730E		50/150	50/150			150	17	37 TVOR	
		4443	ILS/DME	34	108.700	24X		MSK	TRD 415630N 213700E	165	25/62.5	25/100			100		27 DIRECTIVE DME	
		7108	DME			17X		IZD	415711N 213723E		(blank)	30/150			150		30	
		4335	DME			84Y		PEP	412035N 204914E		(blank)	80/500			500		39	
		4334	VOR/DME		111.450	51Y		SIN	415851N 222158E		80/500	80/500			500	26	39	
MLT	MALTA	5388	VOR/DME		115.700	104X		GZO	360214N 141219E		250/500	250/500			500	17	38	
		355101N 143028E																
		355114N 142849E																
		355113N 142849E																
		2439	ILS/DME	13	109.700	34X		LQ	Alt=110,120	315	25/62.5	25/40			62		29	
		355134N 142831E																
		355010N 143008E																
		355010N 143005E																
		3290	VOR/DME	31	110.500	42X		LM	Alt=114,110	135	25/62.5	25/40			62		37	
		3290	VOR/DME		113.000	77X		POD	422310N 191517E		60/500	60/500			500	11	37	
MNE	PODGORICA	3291	ILS	36	109.900			YUI	TRD 422203N 191512E								62	
		3305	ILS/DME	32	111.300	50X		TIV	TRD 422345N 184429E	139	25/62.5	25/100			100		29 No GP	
		2443	ILS/DME	27	110.300	40X		ADA	TRD 301923N 092552W								63	
		2445	VOR/DME		117.200	119X		ADM	301916N 092355W	92	25/62.5	25/63			500	17	37	
		2448	VOR/DME		115.000	97X		ALM	301919N 092300W		200/500	200/500			500	17	37	
MRC	AGADIRAL MASSIRA	5777	VOR/DME		117.000	117X		BRF	323051N 020150W		200/500	200/500			500	20	37	
		2454	VOR/DME		115.800	105X		DKH	234441N 155511W		100/500	100/500			500	17	37	
		73206	ILS/DME	3	109.100	28X		DKL	TRD 234400N 155510W	203	25/62.5	25/100			100		29	
		2457	ILS/DME	27	109.700	34X		LFA	TRD 335538N 049954W	90	25/62.5	25/100			100		27	
		2459	VOR/DME		115.700	104X		FES	335539N 049954W		60/500	60/500			500	17	37 DME NATIONAL	
		2461	ILS/DME	2	110.700	44X		AUN	TRD 270922N 131336W	197	25/62.5	25/100			100		27 50W L	
		2462	VOR/DME		112.100	58X		LAY	270834N 131305W		40/250	40/250			250	20	37	
		73145	VOR/DME		113.500	82X		LAN	270707N 131416W		200/460	200/460			460	25	20	
		2464	ILS/DME	10	109.700	34X		MAR	TRD 313619N 080101W	276	25/62.5	25/100			100		20	
		2465	VOR/DME		113.300	80X		MAK	313646N 080611W		150/500	150/500			500	20	37	
OUARZAZATE	OUARZAZATE	2466	VOR/DME		113.700	114X		OZT	305624N 065416W		200/500	200/500			500	17	30	
		4438	ILS/DME	30	110.300	40X		IRZ	TRD 305647N 065434W	117	25/62.5	25/100			100		27	

COM3- List of national and international assignments in country order

CTY	Location	SAFIRE Ref	Service	Rwy Designator	VHF Channel	DME Channel	MLS Channel	Id	Co-ordinates	TRD	VHFDOC	DMEDOC	MLSDOC	MaxFL	VHF EIRP	DME EIRP	Remarks
	OUJDA/ANGADS	2467	ILS/DME	6	110.100	38X		ODA	TRD 344748N 015427W 344650N 015602W	238	25/62.5	25/100		100		27	
		2469	VOR/DME		117.500	122X		QJD	344624N 015701W		150/500	150/500		500	17	37	
		34342	VOR/DME		115.650	103Y		VDO	344857N 015738W		150/500	150/500		500	20	30	
		34341	ILS/DME	13	108.100	18X		ANG	344726N 015533W 344631N 015659W TRD 340208N 064547W		25/62.5	25/100		100		27	
	RABAT/SALE	2472	ILS/DME	21	110.900	46X		RS	340345N 064431W	31	25/62.5	25/100		100		27	
		2473	VOR/DME		116.500	112X		RBT	340300N 064447W		60/250	60/250		250	17	37	
	BEN SLIMANE	5716	VOR/DME		117.450	121Y		BNS	333831N 071222W		200/500	200/500		500	20	37	
	TANGER/IBN-BATTOUTA	2476	ILS/DME	28	109.300	30X		TAG	354300N 055700W		25/62.5	25/100		100		20	
	TANGER/IBN BATOUTA	31807	VOR/DME		108.050	17Y		TNR	354403N 055509W		150/500	200/500		500	20	37	
	CASABLANCA/MOHAMMED V	2451	DME			116X		CBA	333117N 074038W		(blank)	150/500		500		38	
		4437	ILS/DME	35R	109.900	36X		INR	332116N 073508W	164	25/62.5	25/50		62		27	
		31806	VOR/DME		115.100	98X		CBL	332514N 073622W		150/500	200/500		500	20	37	
		34339	ILS/DME	17R	108.300	20X		INL	332100N 073500W		25/62.5	25/50		62		20	
		34338	ILS/DME	35L	110.700	44X		INL	TRD 332310N 073554W 332111N 073520W	164	25/62.5	25/50		62		27	
	ZAGORA	31706	VOR/DME		114.600	93X		ZAG	301534N 055008W		150/500	200/500		500	20	39	
	NADOR/ELAROU	4720	ILS/DME	8	108.700	24X		TZN	TRD 345933N 030035W 345909N 030224W	258	25/62.5	25/100		100		27	
		4721	VOR/DME		116.000	107X		ARI	345912N 030145W		100/500	100/500		500	20	30	
	TANTAN	34343	VOR/DME		112.300	70X		TNN	282542N 111023W		200/500	200/500		500	17	37	
	GUELIMM	34340	VOR/DME		114.300	90X		GLM	290038N 100409W		200/500	200/500		500	17	37	
	ERRACHIDIA/M. ALI CHERIF	2455	ILS/DME	31	109.300	30X		ERR	TRD 315732N 042506W 315624N 042324W	125	25/62.5	25/100		100		27	
		2456	VOR/DME		117.100	118X		ERA	315527N 042138W		200/500	200/500		500	17	37	
	MAHBAS	51588	ILS/DME	36	108.500	22X		MBS	TRD 274438N 091427W 274259N 091403W	180	25/62.5	25/63		63		27	
		51587	VOR/DME		112.000	57X		MBS	274242N 091403W		200/500	200/500		100		25	36
	SMARA	52290	VOR/DME		108.200	19X		SMR	264351N 114113W		200/500	150/500		500	25	36	
	ESSAOUIRA/MOGADOR	52288	VOR/DME		109.000	27X		MGR	312348N 094105W		200/500	200/500		500	20	37	
		52286	VOR/DME		112.700	74X		ESS	312404N 094113W		200/500	200/500		500	17	37	
	SIDI SLIMANE	64026	VOR/DME		114.750	94Y		SMN	341447N 063003W		200/500	200/500		500	17	37	
	BENGUERIR	34337	VOR/DME		115.400	101X		BGR	320928N 075251W		200/500	200/500		500	17	37	
	TETOUAN/SANIAT RIEL	24479	VOR/DME		117.300	120X		TTN	353542N 051929W		60/500	60/500		500	17	37	
		73205	ILS/DME	24	110.100	38X		ITN	TRD 353512N 051959W 35353N 051841W TRD 623317N 060503E 623348N 060715E	54	25/62.5	25/100		100		29	
NOR	AALLESUND/VIGRA	6860	ILS/DME	24	111.950	56Y		VGR	623349N 060715E	65	25/62.5	25/100		100		27	
		9004	VOR/DME		115.800	105X		VIG	623307N 060204E		25/62	25/100		100	17	37	
	ALTA	2497	VOR/DME		117.400	121X		ATA	695859N 232218E 695839N 232219E		60/500	60/500		500	17	37	
	ANDOYA	6191	ILS/DME	11	108.900	26X		AT	TRD 695819N 232330E 695852N 232109E	301	25/62.5	25/100		100		27	
		2498	TAC			28X		OYA	691171N 160808E		(blank)	200/500		600		40	
		2501	VOR/DME		112.200	59X		AND	691716N 160829E		200/500	200/500		500	17	37	
		6972	ILS/DME	14	109.350	30Y		AN	TRD 691701N 160931E 691700N 160909E	330	25/62.5	25/100		100		27	
	BAATSFJORD	4724	ILS/DME	21	111.100	48X		BT	TRD 703547N 294052E 703500N 294000E	44	25/62.5	25/100		100		27	No GP
		6084	GBAS		115.000			ENB	703559N 294112E		23/100			100		13	
	BANAK	2502	TAC			47X		BNK	700356N 245812E		(blank)	100/250		250		40	
		2503	ILS/DME	34	108.300	20X		BA	TRD 700458N 245813E 700338N 245845E	175	25/62.5	25/100		100		27	
		2506	VOR/DME		114.400	91X		BNA	701035N 245654E		60/250	60/250		250	17	27	
		3356	ILS/DME	16	109.350	30Y		BK	TRD 700316N 245837E 700300N 245800E	355	25/62.5	25/100		100		27	
	BARDUFLOSS	2508	ILS/DME	28	108.700	24X		BF	TRD 690327N 183058E 690308N 183342E Alt=9	109	25/62.5	25/100		100		27	
		2509	ILS/DME	10	110.300	40X		DU	TRD 690305N 183346E 690300N 183309E	289	25/62.5	25/100		100		27	
		2511	TAC			81X		BAR	690303N 183435E		(blank)	200/600		600		40	
		2512	VOR/DME		114.200	89X		BDF	690354N 182758E		40/500	40/500		500	20	36	
	BERGEN/FLESLAND	3424	VOR/DME		115.550	102Y		FLS	@601840N 051244E 601841N 051244E		150/500	150/500		500	17	37	
		27183	ILS/DME	17	109.900	36X		BR	TRD 601644N 051323E 601802N 051249E	350	25/62.5	25/100		100		27	
		27865	ILS/DME	35	110.500	42X		BG	TRD 601827N 051248E 601708N 051310E	170	25/62.5	25/100		100		27	
	BODO	2519	TAC			45X		BOO	601708N 051309E		(blank)	200/500		500		40	
		3425	VOR/DME		117.550	122Y		BDO	671600N 142154E		200/500	200/500		500	17	37	
	BODO/BODO	2522	ILS/DME	7	110.300	40X		BO	TRD 671621N 142141E 671559N 142029E	258	25/62.5	25/100		100		27	
		6971	ILS/DME	25	108.700	24X		BD	TRD 671622N 142416E 671621N 142339E	78	25/62.5	25/100		100		27	
	BROENNOEYSUND	4472	ILS/DME	4	111.150	48Y		BY	TRD 652754N 121330E 652720N 121231E	219	25/62.5	25/100		100		27	
		5868	GBAS		114.050			ENBN	652739N 121312E		23/100			100		13	
	EVENES	2532	TAC			67X		EVS	682929N 164030E		(blank)	100/400		400		40	
		4276	VOR/DME		117.350	120Y		EVD	682726N 164054E		100/500	100/500		500	17	36	

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CTY	Location	SAFIRE Ref	Service	Rwy Designator	VHF Channel	DME Channel	MLS Channel	Id	Co-ordinates	TRD	VHFDOC	DMEDOC	MLSDOC	MaxFL	VHF EIRP	DME EIRP	Remarks	
	EVENES	6764	ILS/DME	17	108.900	26X		EV	TRD 682834N 164047E 683003N 164028E 683003N 164029E	358	25/62.5	25/100		100		27		
	FLORO	2537 2539	ILS VOR/DME	7	108.900	70X		FL FLO	TRD 613506N 050157E 613500N 050200E 613454N 050113E	251	25/62.5			62	500	17	37	
	FORDE/BRINGELAND	2541	ILS/DME	25	109.350	30Y		FD	TRD 612318N 054438E 612300N 054580E 612318N 054437E	74	25/62.5	25/100		100		26		
		2542 5871	ILS/DME GBAS	7	110.700	44X		BL ENBL	TRD 612326N 054537E 612326N 054537E 612342N 054537E	254	25/62.5	25/100		100		27		
	HAMMERFEST	2547 2548	ILS/DME ILS/DME	23	110.700	44X		HF HA	TRD 704036N 233918E 704036N 233918E 704036N 233913E	56	25/62.5	25/100		100		27		
		4053 5869	VOR/DME GBAS	5	112.400	71X		HMF ENHF	TRD 704215N 234127E 704215N 234127E 704036N 233935E	100/500	100/500			500	17	36		
	HASVIK	4745 6100	ILS/DME GBAS	29	111.500	52X		VK ENHK	TRD 702912N 220810E 702909N 220832E 702923N 220757E	119	25/62.5	25/100		100		27		
	HAUGESUND/KARMOY	2550	ILS/DME	13	109.100	28X		HD	TRD 592100N 051209E 592100N 051209E	314	25/62.5	25/100		100		27		
	KIRKENES/HOYBUKTMOEN	5924	ILS/DME	24	110.300	40X		KR	TRD 694318N 255141E 694328N 255046E	69	25/62.5	25/100		100		27		
	KRISTIANSAND/KJEVIK	6297 6835	ILS/DME ILS/DME	3 21	110.350 110.900	40Y 46X		CN KJ	TRD 581245N 080547E 581155N 080448E 581145N 080439E	215 35	25/62.5 25/62.5	25/100 25/100		100 100		27 27		
	LEKNES	2568 5870	ILS/DME GBAS	2	108.500	22X		LK ENLK	TRD 680857N 133610E 680900N 133600E 680858N 133610E	208	25/62.5	25/100		100		29		
	LISTA	2571	TAC		112.600	30X		LST	TRD 680922N 133639E 580605N 063733E			23/100	200/250	250	13		40	
	MEHAMN	2574 6095	ILS/DME GBAS	17	109.500	32X		MH ENMH	TRD 710135N 274928E 710200N 275000E 710135N 274927E	2	25/62.5	25/100		100		27		
	MOSJOEN/KJAERSTAD	2582 6089	ILS/DME GBAS	34	110.700	44X		MS ENMS	TRD 654646N 131314E 654600N 131200E 654646N 131316E	160	25/62.5	25/100		100		27		
	NAMSOS	2584 6086	DME GBAS		115.500	22X		NA ENNA	TRD 642916N 113358E 642917N 113353E		(blank)	25/100		100		34		
	NORTH SEA	2586 2587 2588 2589	DME DME DME DME	7	116.600	83Y 97Y 108X 102X		GFC HEI TRL SPA	TRD 611253N 021629E 611932N 071857E 603843N 034326E 582200N 015425E	100 100 100 250	100 60/100 40/100 60/250			250	13		40 32 PLATF. HEIDRUN 30 PLATF. TROLL 30 PLATF. SLEIPNER A	
	NOTODDEN	2590	ILS/DME	12	110.700	44X		NT	TRD 593410N 091218E 593400N 091300E	307	25/62.5	25/100		100		27		
	NY AALESUND	6839	DME		115.500	72X		NAL	TRD 785559N 115114E 634104N 093712E		(blank)	100/100		100		27		
	ORLAND	2593 2594	ILS/DME TAC	15	109.300	30X		OL ORL	TRD 634233N 093525E 634052N 093725E	334	25/62.5	25/100		100		27		
		71565	ILS/DME	33	108.300	20X		ORD	TRD 634253N 093512E 634124N 093641E 634124N 093640E	154	25/62.5	25/100		100		29		
	OSLO/GARDERMOEN	4056 4060 4062 4063 4064 32525	VOR/DME ILS/DME ILS/DME ILS/DME ILS/DME GBAS		115.950	106Y 56Y 01L 19R 19L		GRM ONE OBW GSW GME ENGM	TRD 601130N 110427E 601130N 110428E 601041N 110641E 601311N 110538E 601116N 110423E TRD 601056N 110418E 601250N 110517E TRD 601019N 110620E 601153N 110723E 601149N 107222E	60/250 196 196 16 16	60/250 25/62.5 25/62.5 25/62.5 25/62.5	60/250 25/100 25/100 25/100 25/100		250 100 100 100 100	17 27 27 27 19		36 27 27 27 27	In use for test purposes - SLOTS A-H TRD=19E
	ROROS	2608	ILS/DME	31	108.700	24X		RO	TRD 623429N 112055E 645015N 110648E	136	25/62.5	25/100		100		27		
	RORVIK	2610 6096	VOR/DME GBAS		112.700	74X		RVK ENRM	TRD 645014N 110630E 645014N 110630E		40/250	40/250		250		17 13		
	ROST	6983	GBAS		116.100			ENRS	TRD 673133N 120617E		23/100			100		13		
	RYGGE	2614	TAC			82X		RYG	TRD @592211N 104840E 592208N 104854E		(blank)	200/600		600		40		
		5923	ILS/DME	30	109.100	28X		RY	TRD 592277N 104755E TRD 614947N 060643E	117	25/62.5	25/100		100		27		
	SANDANE/ANDA	2615	ILS/DME	26	108.300	20X		AD	TRD 615000N 060700E 614946N 060642E	84	25/62.5	25/100		100		27		
	SANDNESSJOEN	2620 6091	ILS GBAS	20	109.900			ST ENST	TRD 655900N 122900E 655722N 122813E	25	25/62.5			62		13		
	SKAGEN	2622	VOR/DME		112.800	75X		SKG	TRD 683442N 150208E		60/250	60/250		250	17	37		

COM3- List of national and international assignments in country order

CTY	Location	SAFIRE Ref	Service	Rwy Designator	VHF Channel	DME Channel	MLS Channel	Id	Co-ordinates	TRD	VHFDOC	DMEDOC	MLSDOC	MaxFL	VHF EIRP	DME EIRP	Remarks
	SOGNDAL	2627	ILS/DME	24	108.100	18X		SG	TRD 610924N 070835E 610927N 070822E 610919N 070751E	59	25/62.5	25/100		100		27	
		5573	ILS/DME	6	108.500	22X		SGD	610920N 070751E	239	25/62.5	25/100		100		27	
		9003	VOR/DME		114.200	89X		SOG	610911N 070935E	100/500	100/500			500	17	37	
	SORKJOSEN	2631	ILS/DME	15	109.300	30X		SR	TRD 694727N 205734E 694700N 205700E	334	25/62.5	25/100		100		27	
	STAVANGER/SOLA	2633	ILS/DME	11	109.500	32X		ZL	TRD 585231N 053822E 585248N 053639E	286	25/62.5	25/100		100		27	
		4055	VOR/DME		116.850	115Y		ZOL	@585230N 053824E 585230N 053825E	150/500	150/500			500	17	36	
		5782	ILS/DME	18	110.300	40X		ZV	TRD 585201N 053817E 585226N 053821E 584714N 052039E	359	25/62.5	25/100		100		27	
	STORD	2640	VOR/DME		113.400	81X		STD	584714N 052040E	40/150	40/150			150	17	37	
		5730	ILS/DME	14	110.100	38X		SRD	TRD 594722N 052034E 594700N 052009E	325	25/62.5	25/100		100		27	
	TORP	3423	VOR/DME		113.850	85Y		TOR	591009N 101533E	100/500	100/500			500	17	37	
		6024	ILS/DME	36	110.950	46Y		SFJ	TRD 591201N 101530E 591043N 101538E 591042N 101538E	179	25/62.5	25/100		100		29	
		6879	ILS/DME	18	108.300	20X		TRP	TRD 591021N 101532E 591142N 101521E	359	25/62.5	25/100		100		29	
	TROMSO/LANGNES	2654	ILS/DME	19	109.900	36X		TR	TRD 694016N 185438E 694118N 185425E	13	25/62.5	25/100		100		27	
		5920	ILS/DME	1	110.900	46X		TC	TRD 694146N 185539E 694028N 185455E	193	25/62.5	25/100		100		27	
	TRONDHEIM/VAERNES	2661	ILS/DME	27	109.900	36X		TD	TRD 632728N 105303E 632731N 105663E	90	25/62.5	23/100		100		27	
		2662	ILS/DME	9	110.300	40X		TO	TRD 632727N 105652E 632731N 105351E	270	25/62.5	25/100		100		27	
	VADSO	2663	ILS/DME	7	108.700	24X		VD	TRD 700356N 295144E 700400N 295200E	267	25/62.5	25/100		100		27	
	OFFSHORE	6085	GBAS		115.600			ENVV	700359N 294959E	23/100				100		13	
	INSTALL(NORTH SEA)	7150	DME			111Y		UL	570640N 025051E		(blank)	100/500		500		37	
		31786	DME			100X		EKO	563232N 031325E AIR=0		(blank)	100/85		85		37	ConocoPhillips platform. EkoL_dme OPERATED BY AVINOR
	STOKMARKNES/SKAGEN	5921	ILS/DME	9	110.150	38Y		STK	TRD 683448N 150040E 683400N 150009E	271	25/62.5	25/100		100		27	
		6090	GBAS		115.700			ENSK	683448N 150040E 683455N 150128E	23/100				100		13	
		7149	ILS/DME	27	109.550	32Y		SK	TRD 683448N 150238E 683500N 150309E	91	25/62.5	25/100		100		29	
	JAN MAYEN	6936	DME			24X		JAN	693448N 189237E		(blank)	200/500		500		37	MIL
	SKOLTEN	6503	DME			96X		SKO	705600N 083900W		(blank)	160/500		500		37	
	TORFJELLET	6502	DME			103X		TOF	780858N 163930E		(blank)	160/500		500		37	
	GUNNARBERGET	6501	DME			116X		GUN	793952N 155822E		(blank)	160/500		500		37	
	BLAAENGA	6336	DME			99X		BLA	773837N 158446E		(blank)	160/500		500		37	
	ERTSRUBBERGET	6335	DME			109Y		ERB	603916N 114344E		(blank)	50/150		150		27	
	NORDLISKAMPEN	6334	DME			103X		NLK	601657N 113251E		(blank)	50/150		150		27	
		6138	ILS/DME	25	109.100	28X		ME	TRD 622445N 071718E 624438N 071543E	71	25/62.5	25/100		100		27	
		6140	ILS/DME	7	109.750	34Y		ML	TRD 624456N 071718E 624434N 071520E	251	25/62.5	25/100		100		27	
	BERLEVAG	2517	ILS/DME	24	110.900	46X		BV	TRD 705210N 290044E 705200N 290100E	75	25/62.5	25/100		100		27	
		6099	GBAS		114.300			ENBV	705224N 290322E	23/100				100		13	
	VARDO	2666	VOR/DME		114.100	88X		VRD	705222N 290211E	40/150	40/150			150	17	37	
		6097	GBAS		116.200			ENSS	702128N 310206E 702111N 310239E	23/100				100		13	
	HONNINGVAAG	2551	ILS/DME	26	108.100	18X		HV	TRD 710033N 255831E 710100N 255809E	90	25/62.5	25/100		100		27	
		2577	ILS/DME	31	111.300	50X		RA	710033N 255839E 661939N 141740E	140	25/62.5	25/100		100		27	
	MO IRANA/ROSSVOLL	2577	ILS/DME	31	111.300	50X		RA	682000N 141800E 681939N 141741E	140	25/62.5	25/100		100		27	
	ORSTA-VOLDA	2595	ILS/DME	6	111.500	52X		HN	TRD 621000N 060100E 681445N 144019E	240	25/62.5	25/100		100		27	Circling approach
	SVOLVAER	2648	ILS/DME	1	110.500	42X		SV	TRD 681500N 144000E 681419N 143930E	192	25/62.5	25/100		100		27	
		6087	GBAS		114.800			ENSH	681428N 143949E	23/100				100		13	
	KRISTIANSUND/KVERN	5783	ILS/DME	7	110.100	38X		KB	TRD 630659N 075115E 630633N 074857E	251	25/62.5	25/100		100		27	
	SVALBARD/VEA	4863	DME			122X		VEA	775135N 163900E		(blank)	100/500		500		36	
	SOLA	2629	TAC			59Y		SOA	585233N 053807E		(blank)	200/600		600		40	
		4280	ILS/DME	36	111.350	50Y		SL	TRD 685342N 053814E 585226N 053824E	179	25/62.5	25/100		100		27	
	MESNALI	4278	VOR/DME		114.400	91X		MES	610559N 103834E	100/500	100/500			500	17	36	
	SIGDAL	4277	VOR/DME		117.700	124X		SIG	600054N 093748E	100/500	100/500			500	17	36	
	VOLLO	2668	VOR/DME		114.850	85Y		VOO	603256N 090743E	50/400	50/400			400	17	39	
	VAERNES	2665	TAC			33X		VAE	632719N 105402E		(blank)	40/250		250		37	
	TROMSO	2653	VOR/DME		113.800	85X		TRO	684210N 185948E	100/500	100/500			500	17	39	

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	TOLGA	2649	VOR/DME		117.400	121X		TGA	622742N 105244E		60/250	60/250		250	17	37	
	SVENSHEIA	2646	VOR/DME		112.100	58X		SVA	@880504N 075430E		250/500	250/500		500	20	37	
	SVALBARD/LONGYEAR	2641	ILS/DME	28	109.500	32X		LA	TRD 781450N 153035E 781500N 153100E 781451N 153037E	105	25/62.5	25/100		100		27	
	STOKKA	2637	VOR/DME		112.000	57X		STO	781449N 152540E	285	25/62.5	25/100		100	27	27	
	SEIDA	2621	VOR/DME		113.600	83X		SDA	655738N 122819E		60/250	60/250		250	17	37	
	VARDEFJELL	2581	VOR/DME		113.300	80X		VFL	7014038N 280413E		60/500	60/500		500	17	37	
	MOSJOEN	2580	TAC			86X			655246N 131829E								
	KVERNBERGET	2567	VOR/DME		113.800	85X		KVB	630705N 074839E		100/500	100/500		500	20	37	
	KIRKENES	2557	VOR/DME		112.000	57X		KIK	694326N 295209E		60/500	60/500		500	17	37	
	KARMOEY	2555	VOR/DME		115.150	98Y		KRM	592048N 051206E		50/400	50/400		400	17	39	
	HUMMELFJELL	2553	TAC			83X		HJM	622537N 111609E		(blank)	200/500		600		40	
	FLESLAND	2536	TAC			92X		FLE	@601800N 051249E		(blank)	200/500		500		40	
	BRONNOY	2526	VOR/DME		115.300	100X		BNN	652725N 121252E		60/250	60/250		250	14	27	
	ALL NORWAY	2482	TAC			28Y			ALL NORWAY(LAND)		(blank)	40/250		250		40	
		2483	TAC			34X			ALL NORWAY(LAND)		(blank)	40/250		250		40	
		2485	TAC			54X			ALL NORWAY(LAND)		(blank)	40/250		250		40	
		2491	TAC			112Y			ALL NORWAY(LAND)		(blank)	40/250		250		40	
	POL BYDGOSZCZ/SZWEDEROWO	4790	ILS/DME	26	109.100	28X		BYD	530549N 175932E	85	25/62.5	25/100		100		29	modification EIRP - RAFT11WP18
		28248	VOR/DME		112.700	74X		BYZ	530554N 175818E Alt=0		80/250	80/250		250	20	37	
	DEBLIN	5420	ILS/DME	30	109.100	28X		IDN	513248N 215410E	121	25/62.5	25/100		100		29	modification EIRP - RAFT11WP18
		6157	TAC			25X		TDN	513314N 215340E		(blank)	80/100		100		26	
	GDANSK/REBIECHOWO	4369	ILS/DME	29	110.300	40X		IGDA	TRD 542256N 182649E 542218N 182909E	113	25/62.5	25/100		100		29	
	KATOWICE	6218	ILS/DME	27	109.900	36X		IKTO	TRD 502834N 190330E 502837N 190543E	90	25/62.5	25/250		250		29	
		6863	VOR/DME		114.800	95X		KAX	502840N 190508E		100/400	100/400		400	20	37	
		57425	ILS/DME	9	108.100	18X		IKAR	TRD 502833N 191637E	265	25/62.5	25/100		100		29	planned 2019
	KRAKOW/BALICE	2687	ILS/DME	25	110.300	40X		KRW	500450N 194743E	78	25/62.5	25/100		100		29	
		6862	VOR/DME		112.800	75X		KAK	@500436N 194717E		100/500	100/500		500	20	37	
		38665	ILS/DME	25	108.300	20X		IKRK	TRD 500443N 194731E	75	25/62.5	25/250		250	14	29	planned 2021
		57406	GBAS		110.000			EPKK	500434N 194704E		23/100			100		19	planned 2020
	KRZESINY	5203	ILS/DME	29	111.900	56X		IKS	TRD 522022N 165638E 521945N 165844E	118	25/62.5	25/100		100		29	modification EIRP - RAFT11WP18
		5568	TAC			52X		TKS	522000N 165804E		(blank)	40/100		100		29	
	LASK	5419	ILS/DME	28	110.900	46X		IAS	TRD 513322N 190922E 513300N 191134E	103	25/62.5	25/100		100		20	
		5715	TAC			22Y		TAS	513300N 191042E		(blank)	40/100		100		29	
	LODZ	2689	VOR/DME		112.400	71X		LOZ	514634N 193739E		150/500	150/500		500	20	37	
		5075	ILS/DME	25R	110.500	42X		LOD	TRD 514265N 192208E 514325N 192402E 540126N 190644E	71	25/62.5	25/100		100		29	modification EIRP - RAFT11WP18
	MALBORK	5421	ILS/DME	25	110.500	42X		IMB	540137N 190900E	79	25/62.5	25/100		100		29	modification EIRP - RAFT11WP18
		8568	TAC			118X		TMB	540138N 190859E		(blank)	40/250		250		40	
	MINSK MAZOWIECK	4746	TAC			69X		TMM	521100N 213900E		(blank)	40/250		250		26	MIL
		4921	TAC			117Y		TMM	521140N 213958E		(blank)	200/600		600		26	
	MODLIN	4923	ILS/DME	26	111.300	50X		IMM	TRD 521144N 213748E 521140N 214009E	90	25/62.5	25/100		100		29	modification EIRP - RAFT11WP18
		6880	VOR/DME		116.600	113X		MOL	522709N 204040E		100/400	100/400		400	20	37	
	NOWY TARG	9005	ILS/DME	8	108.300	20X		IMDX	TRD 522656N 203820E 492033N 195803E	261	25/62.5	25/100		100		29	
		27423	DME			106Y		NTA	TRD 543522N 183003E		(blank)	100/500		500		37	
	OKSZYWIE	5422	ILS/DME	31	109.500	32X		IOW	543422N 183132E	136	25/62.5	25/100		100		29	modification EIRP - RAFT11WP18
		6156	TAC			82X		TOW	543456N 183023E		(blank)	80/100		100		26	
	POWIDZ	4922	TAC			102Y		TPW	522237N 175101E		(blank)	200/600		600		26	MIL
		4924	ILS/DME	28L	111.100	48X		IPW	TRD 522308N 174909E 522235N 175221E	107	25/62.5	25/100		100		29	modification EIRP - RAFT11WP18
		64725	ILS/DME	10R	108.150	18Y		IPDZ	TRD 522245N 175108E Alt=100	287	25/62.5	25/100		103		20	MIL
	POZNAN/LAWICA	2692	ILS/DME	28	110.300	40X		POZ	TRD 522533N 164805E 522512N 165015E	108	25/62.5	25/100		100		29	
		4069	VOR/DME		115.800	105X		LAZ	522520N 164849E		100/500	100/500		500	20	37	
	RZESZOW/JASIONKA	2694	ILS/DME	27	110.300	40X		RZW	TRD 500637N 215944E 500631N 220229E	91	25/62.5	25/100		100		29	
		2695	VOR/DME		116.200	109X		RZE	500629N 220108E		80/500	80/500		500	20	37	
		43026	VOR/DME		110.600	43X		RSW	500700N 220700E		100/500	100/500		500	17	37	planned 2019
	SWIDWIN	4949	ILS/DME	29	111.550	52Y		ISN	TRD 534719N 155023E 534720N 155023E	111	25/62.5	25/100		100		29	modification EIRP - RAFT11WP18
		4992	TAC			107X		TSN	534658N 155107E		(blank)	60/500		500		26	
	SZCZECIN	4066	ILS/DME	31	110.500	42X		SZC	TRD 533542N 145340E 533442N 145442E	131	25/62.5	25/100		100		29	
		27259	VOR/DME		114.750	94Y		SCZ	533543N 145253E		100/500	100/500		500	17	37	
	WARSZAWA/OKECIE	3547	ILS/DME	11	109.900	36X		WAS	TRD 520938N 205907E 521016N 205709E	294	25/62.5	25/100		100		29	
		3602	ILS/DME	33	110.300	40X		WA	520924N 205823E	152	25/62.5	25/630		630		29	
		6918	VOR/DME		113.450	81Y		OKC	521011N 205736E		80/250	80/250		250	20	37	
		43025	VOR/DME		111.450	51Y		WAA	515738N 210718E		100/500	100/500		500	17	37	planned 2021

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WROCLAW		2711	ILS/DME	29	110.300	40X		TRD 510637N 165138E		116	25/62.5	25/100		100	20	29		
		6919	VOR/DME		111.650	53Y	WRO 510556N 165533E		80/400									80/400
ZIELONA GORA		6786	VOR/DME		110.650	43Y		ZLG 520827N 154802E			80/500	80/500		500	20	37		
SWIDNIK		7164	ILS/DME	24	111.300	50X		TRD 520757N 154642E		65	25/62.5	25/100		100	20	29		
		4805	VOR/DME		112.200	59X	IZGA 520928N 154842E		100/500									100/500
WICKO		7163	ILS/DME	25	111.950	56Y		TRD 511410N 221038E		77	25/62.5	25/100		100	20	37		
		7142	DME		117X	ISWI 511435N 224334E		(blank)	100/400									400
PLOCK		6993	DME		123Y		WIC 544046N 174033E				(blank)	100/400	400					
DARLOWO		2670	VOR/DME		114.200	89X		DAR 542437N 162317E			100/500	100/500		500	20	37	modification EIRP - RAFT11WP8	
CZAPLINEK		6958	TAC		115Y		TDA 542417N 162129E				(blank)	80/100	100				29 MIL	
		6957	DME		117X		CZA 533028N 161904E				(blank)	80/400	400				37	
IZBICA		6956	DME		121X		CZA 505238N 230859E				(blank)	100/400	400				37	
								TRD 542449N 174428E										
CEWICE		5423	ILS/DME	25	111.300	50X		ICE 542510N 174638E		76	25/62.5	25/100		100		29	modification EIRP - RAFT11WP8	
GDANSK		6917	TAC		116.100	86Y		TCW 542453N 174549E			(blank)	40/100	100				40 MIL	
		6864	VOR/DME		108X		GZD 542316N 162531E				100/400	100/400		400	20	37		
MIROSLAWIEC		5105	ILS/DME	30	110.900	46X		TRD 532415N 160339E		125	25/62.5	25/200		200	26			
		6820	TAC		17X	IMI 532322N 160533E		(blank)	40/100									100
TRZEBIELINO		6830	TAC		100Y		TMI 532406N 160418E				(blank)	40/100	100				29 MIL	
		6570	DME		85X		TZE 541238N 170424E				(blank)	80/500	500				37	
OLESN		6567	DME		101X		OLX 501242N 205608E				(blank)	80/500	500				37	
RUDKA		4806	VOR/DME		115.100	98X		RUD 524950N 234228E			100/450	100/450		450	20	37		
MRAOGOW		4804	VOR/DME		117.300	128X		MRA @524708N 162037E			150/450	150/450		450	20	37		
ALL POLAND		4741	TAC		26Y		ALL POLLAND(LAND)				(blank)	40/250	250				38 LAND MOBILE	
		4742	TAC		34X		ALL POLLAND(LAND)				(blank)	40/250	250				38 LAND MOBILE	
		4743	TAC		54X		ALL POLLAND(LAND)				(blank)	40/250	250				38 LAND MOBILE	
		4744	TAC		112X		ALL POLLAND(LAND)					(blank)	40/250	250				38 LAND MOBILE
		3548	VOR/DME		78X		LIN 515558N 210931E					100/500	100/500		500	20	37	
RADOM		27943	VOR/DME		113.850	85Y		RAD 512322N 211213E			100/450	100/450		450	17	37		
		66605	ILS/DME	25C	110.350	40Y		IRDM TRD 512319N 211241E		70	25/62.5	25/100		100		29		
ZABOROWEK		2712	VOR/DME		114.300	96X		WAR @521533N 202925E			100/500	100/500		500	20	37		
TREBNI/TRZEBNICA		2703	VOR/DME		113.600	83X		TBN @511628N 170803E			150/500	150/500		500	20	37		
SUWALKI		2698	VOR/DME		117.700	124X		SUW 540411N 225401E			100/500	100/500		500	20	37		
SIEDLCE		2696	VOR/DME		114.700	94X		SIE @520919N 221203E			150/500	150/500		500	20	37		
KMIECIN		2685	VOR/DME		116.800	115X		KMI 541200N 190906E			100/500	100/500		500	20	37	Planned upgrade to DVOR DME	
KARNICE		2677	VOR/DME		117.800	125X		KRN 515647N 202414E			100/500	100/500		500	20	37		
JEDOW/JEDRZEJOW		2676	VOR/DME		115.600	103X		JED @503850N 201504E			150/500	150/500		500	20	37		
GRUDA/GRUDZIADZ		2674	VOR/DME		114.600	93X		GRU 533116N 184653E			150/500	150/500		500	20	37		
DENKO/DRZEDENKO		2671	VOR/DME		115.300	100X		DRE @524901N 156357E			150/500	150/500		500	20	37	Planned upgrade to VOR/DME	
CZEMPIN		2669	VOR/DME		114.500	92X		CMP 520800N 164399E			100/500	100/500		500	20	37		
SZCZYTNO/SZYMANY		28351	ILS/DME	1	108.100	18X		TRD 532842N 205642E		199	25/62.5	25/100		100	20	29		
		30118	VOR/DME		111.050	47Y	SZY 532828N 205554E		100/500									100/500
		30116	DME		114.300	80X	SYN 533626N 210033E		(blank)									100/500
		30105	DME		109Y	DIA 530468N 211032E		(blank)	100/500									
		30104	DME		109Y	OSY 534449N 201551E		(blank)	100/500									
		30104	DME		33Y	WIE 505259N 182943E		(blank)	100/500									
		40167	TAC		44X	TTM 513915N 200537E		(blank)	40/250									
		40166	TAC		38X	TLY 520048N 190339E		(blank)	40/250									
		40165	TAC		29Y	TIR 524943N 181949E		(blank)	40/250									
		40445	DME		120Y	BIA 511735N 155519E		(blank)	100/500									
		57265	DME		116X	PSZ 495932N 185104E		(blank)	100/500									
		70785	DME		90X	OST 525529N 230516E		(blank)	80/500									
		2726	TAC		105X	BEJ 380742N 075535W		(blank)	150/300									
		6998	ILS/DME		19R	40X		TRD 380334N 075606W										
CASCAIS		7000	VOR/DME		114.300	80X		BJ 380530N 075558W		6	25/62.5	25/100		100	17	27		
FARO		2729	VOR/DME		112.800	75X		CAS 384454N 092143W			200/500	200/500		500	17	39		
		6289	DME		49X		VFA 370049N 075830W				(blank)	50/300	300				39	
FARO/FARO		7001	ILS/DME	28	109.500	32X		TRD 370103N 075916W		100	25/62.5	25/100		100	27			
		7002	ILS/DME		10	110.500	42X	HIF 370047N 075745W										(blank)
LISBOA/LISBOA		7003	ILS/DME	3	109.100	28X		TRD 370947N 075722W		280	25/62.5	25/100		100	27			
		7004	ILS/DME		21	109.500	32X	ILB 384721N 090749W										23
MONTIJO		2747	TAC		37X		MOJ 384232N 090201W				(blank)	150/300	300				41	
		5313	ILS/DME	26	109.700	34X		TRD 384215N 090222W		72	25/62.5	25/100		100	17	39		
2758	VOR/DME	96X	114.900	96X	MT 384242N 090531E		200/500	200/500										
PORTO SANTO		2759	TAC		110X		SNT @330525N 162102W				(blank)	200/500	500				40 MIL	
		2757	ILS/DME	17	109.900	36X		TRD 411348N 084036W		349	25/62.5	25/100		100	27			
2764	VOR/TAC		112.100	58X	PRO 411529N 084057W		200/500	200/500										
VISEU		2769	VOR/DME		113.100	78X		SRA 384945N 092024W			200/500	200/500		500	17	39		
LISBOA		2736	VOR/DME		114.800	95X		VIS 404324N 075310W			200/500	200/500		500	17	39		
OVAR		2753	TAC		43X		LIS 385316N 090946W				80/500	80/500		500			41 MIL	
		7011	ILS/DME	36	109.300	30X		OVR 405316N 083559W			(blank)	200/500	500				39	
MONTE REAL		2744	TAC		33X		TRD 405545N 083850W			176	25/62.5	25/100		100	27	MIL		
		5997	ILS/DME	1	109.150	28Y	OV 405427N 083837W		(blank)									150/300
MONTARGIL		7005	DME	19	110.300	40X		TRD 384920N 085311W		2	25/62.5	25/100		100	27	MIL		
		5459	DME	20X		MR 395024N 085308W		(blank)	115/200									
		2755	VOR/DME	88X	114.100		DMT 380458N 081115W		(blank)									150/200
		2755	VOR/DME	88X	114.100		ARR @332934N 085744W		(blank)									200
PORTO		2755	VOR/DME		114.100	88X		PRT @411623N 084116W			200/500	200/500		500	17	39		

COM3- List of national and international assignments in country order

CTY	Location	SAFIRE Ref	Service	Rwy Designator	VHF Channel	DME Channel	MLS Channel	Id	Co-ordinates	TRD	VHFDOC	DMEDEC	MLSDOC	MaxFL	VHF EIRP	DME EIRP	Remarks
	NISA	2749	VOR/TAC		115.500	102X		ISA	@393353N 075453W		200/500	200/500		500	17	42	
	SAGRÉS	2735	VOR/DME		113.900	86X											
	FUNCHAL	2734	VOR/DME		112.200	59X		FLN	324450N 164220W		200/500	200/500		500	17	39	
	FATIMA	2732	VOR/DME		113.500	82X		FTM	383956N 082934W		60/500	60/500		500	17	39	
	ESPIQUEL	2728	VOR/TAC		112.500	72X		ESP	@335257N 091108W @371827N 075744W		200/500	200/500		500	17	42	
	SALIR	27986	DME			30X		DSL	Alt=580 @370945N 083652W		(blank)	80/250		250		34	
	MEXILHOEIRA	27985	DME			22X		DMX	Alt=575 @374203N 074549W		(blank)	100/250		250		34	
	MERTOLA	27984	DME			92X		DML	Alt=350 @372649N 073825W		(blank)	150/250		250		37	
	PEREIRO	27983	DME			52X		DPR	Alt=250 TRD @391212N		(blank)	100/250		250		34	
	PONTE DE SOR	29506	ILS/DME	21	111.900	56X		PSD	080345W 391258N	24	25/62.5	25/100		100	24	31	
	ARGA	44168	DME			99X		DSA	414759N 084120W		(blank)	75/400		400		37	
	MURO	44167	DME			85X		DMU	414846N 081143W		(blank)	92/400		400		37	
	AROUCA	44166	DME			96X		DAR	405559N 081331W		(blank)	73/400		400		37	
	MARAC	44165	DME			93X		DMR	411454N 075313W		(blank)	77/400		400		37	
	ARAD	3361	VOR/DME		109.000	27X		ARD	461100N 211100E		175/500	175/500		500	20	37	
		4854	ILS/DME	27	110.700	44X		IRD	461100N 211400E	90	25/62.5	25/100		100		29	
		68386	DME			93X		SIR	461556N 213952E		(blank)	100/250		250		37	
	BACAU	2774	VOR/DME		109.400	31X		BCU	463100N 265000E		175/500	175/500		500	20	37	
		5717	ILS/DME	34	110.700	44X		IBC	TRD 463200N 265400E	160	25/62.5	25/100		100		37	
		7317	DME			121X		BAC	463300N 265500E		(blank)	100/500		500		37	
		67713	DME			36Y		ARN	462246N 270924E		(blank)	100/250		250		37	
		67711	DME			30Y		ODB	464152N 270959E		(blank)	100/250		250		37	
	BAIA MARE	6951	ILS/DME	9	109.300	30X		IBM	TRD 473925N 232847E	270	25/62.5	25/100		100		37	
	BOBOC	5471	ILS	4	111.700			IBO	TRD 451300N 265900E	220	25/62.5			62			MIL
	BRASOV	2779	VOR/DME		117.600	123X		BRV	453400N 263400E		175/500	175/500		500	20	37	
	BUCURESTI/BANEASA	4557	ILS/DME	25	110.500	42X		IBN	TRD 443400N 260400E	70	25/62.5	25/100		100		29	
		5935	ILS/DME	7	109.500	32X		IBS	TRD 443000N 260800E	250	25/62.5	25/100		100		37	
	BUCURESTI/OTOPENI	3553	ILS/DME	08R	110.300	40X		IBP	TRD 443400N 260900E	260	25/62.5	25/100		100		29	
		3554	ILS/DME	26R	110.700	44X		IBR	TRD 443500N 261000E	80	25/62.5	25/100		100		29	
		4354	ILS/DME	08L	110.900	46X		ILL	TRD 443500N 260800E	260	25/62.5	25/100		100		29	
		4378	VOR/DME		117.100	118X		OPT	443500N 263300E		100/500	100/500		500	17	37	
		9006	ILS/DME	26L	109.100	28X		IOE	TRD 443400N 260400E	80	25/62.5	25/100		100		29	
	CLUJ	2791	VOR/DME		111.200	49X		CLJ	464800N 235100E		175/500	175/500		500	20	37	
		5931	ILS/DME	26	110.300	40X		ICL	TRD 464700N 234000E	80	25/62.5	25/100		100		37	
		5934	ILS/DME	8	109.100	28X		ICJ	TRD 464700N 234000E	260	25/62.5	25/100		100		37	
		7134	ILS/DME	25	111.900	56X		ICX	TRD 464700N 234000E	70	25/62.5	25/100		100		29	
	CRAIOVA	4377	VOR/DME		110.200	39X		CRV	441900N 235500E		100/500	100/500		500	17	37	
		5996	ILS/DME	27	108.700	24X		ICV	TRD 441900N 235100E	90	25/62.5	25/100		100		37	
	DEVA	4375	VOR/DME		109.800	35X		DVA	455000N 225800E		100/500	100/500		500	17	37	
	FETESTI	9012	ILS	36	108.950			IFS	TRD 442400N 274300E	180	25/62.5			62			MIL
		9013	ILS	18	111.350			IFN	TRD 442200N 274300E	0	25/62.5			62			MIL
		30686	TAC			37Y		FTS	442332N 274336E		(blank)	200/450		450		37	
		30685	TAC			115Y		FTS	442332N 274336E		(blank)	200/450		450		37	
	IASI	9007	ILS/DME	15	109.100	28X		IIS	TRD 471200N 273600E	330	25/62.5	25/100		100		29	
		28438	DME			82X		ISI	471463N 273747E TRD 471200N 273600E		(blank)	100/250		250			ID change from IAS to ISI.
		28787	ILS/DME	32	110.500	42X		IAS	471130N 273638E	140	25/62.5	25/100		100		29	
		28785	ILS/DME	14	109.100	28X		IIS	TRD 471200N 273600E		175/500	175/500		500		29	
		67710	DME			25X		STR	470941N 265698E	320	25/62.5			250		37	
		67709	DME			22X		HDB	470953N 272528E		(blank)	100/250		250		37	
	ORADEA	6232	ILS/DME	19	109.500	32X		IOD	TRD 470100N 215400E	10	25/62.5	25/100		100		37	
	SATU MARE	3362	VOR/DME		108.400	21X		SAT	474400N 225400E		150/500	150/500		500	20	37	
		6843	ILS/DME	19	110.950	49Y		ISM	TRD 474100N 225300E	10	25/62.5	25/100		100		29	
	SIBIU	4966	DME			26X		SIB	454700N 240500E		(blank)	50/500		500		29	
		6275	ILS/DME	27	110.700	44X		ISB	TRD 454700N 240500E	90	25/62.5	50/100		100		28	
		28224	VOR/DME		114.000	87X		SBI	454651N 240516E		100/500	100/500		500	23	37	Until equipment replacement (est. 2y).
		68387	DME			78X		FLT	453832N 233637E		(blank)	100/250		250		37	
	STREJNIC	3358	VOR/DME		113.200	79X		STJ	445500N 255900E		100/500	100/500		500	17	37	
	SUCEAVA	3359	VOR/DME		112.300	70X		SCV	474000N 262200E		175/500	175/500		500	20	37	
		6233	ILS/DME	34	110.100	38X		ISV	TRD 473900N 262300E	160	25/62.5	25/100		100		37	
									TRD 454900N 211900E		(blank)	100/250		250		37	
	TIMISOARA/GIARMATA	9008	ILS/DME	29	109.300	30X		ITR	474000N 232600E	110	25/62.5	25/100		100		29	
		9009	ILS/DME	11	110.900	46X		ITS	TRD 454800N 212400E	290	25/62.5	25/100		100		29	
		9010	ILS/DME	7	109.900	36X		ITM	TRD 462700N 242500E	250	25/62.5	25/100		100		29	
	TIRGU MURES	4432	VOR/DME		114.800	95X		TIS	450400N 242300E		175/500	175/500		500	20	37	
	TULCEA	9011	ILS/DME	34	110.700	44X		ITC	TRD 450400N 284200E	160	25/62.5	25/100		100		29	
		67732	DME			51Y		TPG	445124N 282511E		(blank)	100/250		250		37	
	CINCU	9018	TAC			64Y		CIN	455500N 244800E		(blank)	35/200		200		40 MIL	
		9019	TAC			71Y		CIN	455500N 244800E		(blank)	35/200		200		40 MIL	
	MALINA	9016	TAC			72Y		MAL	453100N 275400E		(blank)	35/200		200		40 MIL	
		9017	TAC			74Y		MAL	453100N 275400E		(blank)	35/200		200		40 MIL	
	BABADAG	9015	TAC			73Y		BAB	445300N 284400E		(blank)	35/200		200		40 MIL	
	ALL ROMANIA	6259	TAC			26Y		TAC	ALL ROMANIA(LAND)		(blank)	35/250		250		40 MIL	
		6260	TAC			112Y		TCD	ALL ROMANIA(LAND)		(blank)	35/250		250		40 MIL	
		6261	TAC			34X		TCB	ALL ROMANIA(LAND)		(blank)	35/250		250		40 MIL	
		9014	TAC			54X		TCC	ALL ROMANIA(LAND)		(blank)	35/250		250		40 MIL	
	BAISOARA	6953	DME			126Y		BAI	462900N 231400E		(blank)	100/250		250		37	
	CIUHEI	6952	DME			29X		CHI	461000N 249400E		(blank)	100/250		250		37	
	ZALAU	6949	DME			17X		ZLU	470900N 230600E		(blank)	100/250		250		37	
	HENIU	6948	DME			63X		HNU	471600N 244400E		(blank)	100/250		250		37	
	CAMPIA TURZI	5470	ILS	33	108.100			ICP	TRD 463000N 235200E	150	25/62.5			62			MIL
		6165	TAC			90X		CTZ	463000N 235400E		(blank)	35/200		200		34 MIL	
		6565	TAC			112X		TCE	463000N 235300E		(blank)	35/250		250		40 MIL	
	CENEI	6551	DME			103X		CNI	454300N 205400E		(blank)	100/250		250		28	
	LUGOJ	6550	DME			67X		LGJ	454300N 220000E		(blank)	100/250		250		37	



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	CONSTANTA/KOGALNICEAN U	2794	VOR/DME		112.700	74X		CND	441800N 282900E								
		4436	ILS/DME	36	110.300	40X		ICK	441707N 282841E		175/500	175/500		500	23	37	
	GALATI	3360	VOR/DME		108.200	59X		GLT	442300N 282900E	180	25/62.5	25/100		100			29
	TIRGU JIU	2813	VOR/DME		115.300	100X		TSJ	452500N 275600E		175/500	175/500		500	20	37	
	FLORESTI	2797	VOR/DME		112.200	59X		FLR	450400N 250000E		150/500	150/500		500	23	37	
	BUZAU	70906	DME			105Y		ISA	443000N 283235E		(blank)	100/250		250			37
	CONSTANTA	69145	DME			75X		TZL	435933N 283648E		(blank)	100/250		250			37
		68388	DME			116X		TZL	435933N 283648E		(blank)	100/250		250			37
		68385	DME			101X		TZL	440213N 283725E		(blank)	100/250		250			37
		67733	DME			53X		ADM	440524N 275745E		(blank)	100/250		250			37
	DAMBOVITA	68389	DME			94X		PMT	444631N 252314E		(blank)	100/250		250			37
	ALBA	67736	DME			59Y		CIC	461941N 233211E		(blank)	100/250		250			37
	BOTOSANI	67735	DME			76X		STL	473409N 271521E		(blank)	100/250		250			37
	TIMIS	67731	DME			48X		SAC	453346N 214325E		(blank)	100/250		250			37
	GIURGIU	67729	DME			45X		COM	441033N 260859E		(blank)	100/250		250			37
		3220	ILS						553600N 491700E								
		3221	ILS		111.700				553600N 491700E								
	MINERALNYE VODY	3223	VOR/DME		000.000		0	@441500N 430000E	250/500	250/500			500	17	37		
		3224	ILS		109.300			441500N 430000E	25/62.5								
		3225	ILS		111.700			441500N 430000E	25/62.5								
	MOSKVA/VNUKOVO	3235	MLS/DME			20X	502	553600N 371700E	(blank)	23/100	23/100		100				27
		3236	ILS		108.900			553600N 371700E	25/62.5								
		3237	ILS		109.700			553600N 371700E	25/62.5								
		3238	MLS/DME			42X	524	553600N 371700E	(blank)	23/100	23/100		100				27
		3239	ILS		111.100			553600N 371700E	25/62.5								
		3240	MLS/DME			50X	532	553600N 371700E	(blank)	23/100	23/100		100				27
		3241	ILS		111.700			553600N 371700E	25/62.5								
		3242	MLS/DME			56X	538	553600N 371700E	(blank)	23/100	23/100		100				27
	MURMANSK	3243	ILS		108.500			690000N 330000E	25/62.5								
		3244	ILS		110.300			690000N 330000E	25/62.5								
	TVER/MIGALOVO	3264	MLS/DME			32X	514	564900N 354500E	(blank)	23/100	23/100		100				27
		3265	ILS		109.900			564900N 354500E	25/62.5								
	VELIKIYE LUKI	3266	VOR		108.200			562200N 302600E	150/500								17
	NOVOSIBIRSK	3651	ILS		000.000			IKT	50400N 830500E		25/62.5						
		3652	ILS		000.000			LLZ	50100N 824000E		25/62.5						
	KHABAROVSK	3648	ILS		000.000			IUF	483100N 135110E		25/62.5						
		3649	ILS		000.000			IBD	483100N 135110E		25/62.5						
		3650	ILS		000.000			IHI	483100N 135110E		25/62.5						
	IRKUTSK	3646	ILS		000.000			CN	521600N 1042400E		25/62.5						
		3647	ILS		000.000			IIR	521600N 1042400E		25/62.5						
	EDINKA	3645	VOR		000.000			DE	471000N 1353900E		300/450						17
	CHITA	3642	ILS		000.000			DE	520200N 1131800E		25/62.5						
		3643	ILS		000.000			IDG	520200N 1131800E		25/62.5						
		3644	ILS		000.000			IZM	520200N 1131800E		25/62.5						
	SUKHOTINO	3263	VOR		000.000				543600N 372000E		200/500						
	SANKT-PETERBURG/PULK	3255	MLS/DME			24X	506	594900N 301700E	(blank)	23/100	23/100		100				17
		3256	ILS		108.900			594900N 301700E	25/62.5								
		3257	MLS/DME			34X	516	594900N 301700E	(blank)	23/100	23/100		100				27
		3258	MLS/DME			38X	520	594900N 301700E	(blank)	23/100	23/100		100				27
		3259	ILS		110.500			594900N 301700E	25/62.5								
		3260	MLS/DME			50X	532	594900N 301700E	(blank)	23/100	23/100		100				27
		3261	ILS		111.300			594900N 301700E	25/62.5								
		3262	ILS		111.900			594900N 301700E	25/62.5								
	SANKT-PETERBURG	3254	VOR/DME		113.400		81X	SPB	594900N 301600E		150/500			500	17	37	IDOC=80N/150
	SAMARA/KURUMOCH	3248	MLS/DME			20X	502	532000N 501000E	(blank)	23/100	23/100		100				27
		3249	ILS		109.700			532000N 501000E	25/62.5								
		3250	ILS		111.100			532000N 501000E	25/62.5								
		3251	MLS/DME			50X	532	532000N 501000E	(blank)	23/100	23/100		100				27
		3252	MLS/DME			56X	538	532000N 501000E	(blank)	23/100	23/100		100				27
		3253	ILS		111.900			532000N 501000E	25/62.5								
	ROSTOV-NA-DONU	3246	ILS		110.300			471300N 392400E	25/62.5								
		3247	ILS		110.500			471300N 392400E	25/62.5								
	PETROVSKOYE	3245	VOR		000.000			514300N 401100E	200/500								17
	MOSKVA/SHEREMETEV	3227	ILS		108.100			555800N 372500E	25/62.5								
		3228	MLS/DME			24X	506	555800N 372500E	(blank)	23/100	23/100		100				27
		3229	ILS		109.100			555800N 372500E	25/62.5								
		3230	MLS/DME			30X	512	555800N 372500E	(blank)	23/100	23/100		100				27
		3231	MLS/DME			34X	516	555800N 372500E	(blank)	23/100	23/100		100				27
		3232	MLS/DME			38X	520	555800N 372500E	(blank)	23/100	23/100		100				27
		3233	ILS		110.500			555800N 372500E	25/62.5								
		3234	ILS		111.300			555800N 372500E	25/62.5								
	MOSKVA	3226	VOR/DME		114.600		93X	555800N 372100E	150/500	150/500			500	17	23		
	KOTLAS	3222	VOR/DME		117.800		125X	611400N 464200E	250/500	250/500			500	17	37	IDOC=250E/150SW-W/80	
	BRYANSK	3219	VOR		000.000			532000N 341600E	200/500								17
	BELYOZYORSK	3218	VOR		000.000			600200N 374500E	150/500								17
	BELY	3217	VOR		000.000			@855100N 325600E	150/500								17
								TRD 561658N 125212E									
	ANGELHOLM	2824	ILS/DME		111.300	50X		DB	561748N 125697E		316	25/62.5	25/100		100		27
								TRD 653600N 191507E									
	ARVIDSJAUR	2828	ILS/DME		111.500	52X		NX	653514N 191743E	128	25/62.5	25/100		100			27
								TRD 653453N 191832E									
		5458	ILS/DME		109.350	30Y		ARV	65352N 191846E	308	25/62.5	100/500		500			39
								TRD 60253N 153942E									
	BORLANGE	2831	ILS/DME														

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CTY	Location	SAFIRE Ref	Service	Rwy Designator	VHF Channel	DME Channel	MLS Channel	Id	Co-ordinates	TRD	VHFDOC	DMEDOC	MLSDOC	MaxFL	VHF EIRP	DME EIRP	Remarks	
S	GOTEBORG/LANDVETTER	5971	ILS	21	108.500			NGG	TRD 573850N 121556E 574027N 121716E	26	25/62.5				62			
		5972	ILS	3	110.300			SGG	TRD 574043N 121739E 573908N 121609E	206	25/62.5				62			
		5973	DME				80Y	PGG	574357N 121140E		(blank)	25/250			250		27	
		5974	DME				88Y	HGG	573446N 121844E		(blank)	25/250			250		27	
	HAGFORS	2850	ILS/DME	18	110.100	38X		IHF	TRD 600643N 133448E 600126N 133434E	357	25/62.5	25/100		100		27		
	HALMSTAD	2853	ILS	19	110.100			MT	TRD 564038N 124903E 564156N 124924E	6	25/62.5			62				
	HEMAVAN	5004	ILS/DME	33	110.100	38X		IUT	TRD 654851N 150420E 654805N 150509E	153	25/62.5	25/100		100		27		
	JONKOPING	34246	ILS	15	111.500			WUT	TRD 654750N 150538E 654745N 150527E	332	25/62.5			62	13		There is no glide path, only a localizer.	
	JONKOPING	4701	VOR/DME		115.800	105X		JON	TRD 574538N 140366E 574607N 140432E		100/500	100/500		500	17	39		
	KALMAR	2867	ILS	16	108.700			SGJ	TRD 574504N 140347E 574504N 140346E	198	25/62.5	25/100		100		27		
	KARLSBORG	2868	VOR/DME		111.600	53X		KAL	TRD 564034N 161747E 564141N 161651E	332	25/62.5			62				
	KARLSBORG	6963	ILS/DME	6	110.750	44Y		SIA	@564107N 161703E		160/500	160/500		500	17	37		
	KARLSTAD	4116	VOR/DME		117.800	125X		KSD	TRD 583000N 143000E 582633N 131954E		25/62.5	25/100		100	17	37	27 MIL	
	KIRUNA	4117	ILS	3	109.350			SOK	TRD 692726N 133997E 592615N 131942E	206	25/62.5			62				
	KIRUNA	4118	ILS	21	110.700			NOK	TRD 592599N 131935E 592710N 132033E	26	25/62.5			62				
	KIRUNA	2875	ILS/DME	21	110.300	40X		NO	TRD 674834N 181832E 674942N 202105E	34	25/62.5	25/100		100		29	DME will be in operation spring 2019.	
	KIRUNA	4991	VOR/DME		115.200	99X		KRA	674909N 202015E		100/500	100/500		500	17	39		
	KRAMFORS	2878	ILS	17	109.300			FK	TRD 630214N 174621E 630200N 174609E	352	25/62.5			62				
	LINKOPING/MALMEN	4895	ILS/DME	19	110.100	38X		CFB	TRD 630232N 174623E 630232N 174624E	172	25/62.5	25/100		100		27		
	LINKOPING/MALMEN	29671	ILS/DME	1	108.350	20Y		CFE	TRD 632244N 183392E 582411N 153128E	198	25/62.5	25/100		100		29	DME: Ongoing installation and soon to be in operation.	
	LINKOPING/SAAB	2889	ILS	29	108.100			SL	TRD 582417N 154134E 582406N 154206E	112	25/62.5			62				
	LINKOPING/SAAB	5192	ILS	11	108.700			LSL	TRD 582436N 154005E 582441N 153922E	292	25/62.5			62				
	LINKOPING/SAAB	74287	ILS/DME	29	108.100	18X		SL	TRD 582410N 154206E 582358N 154242E	112	25/62.5	25/100		100		27	Will replace 3S2899	
	LINKOPING/SAAB	74286	ILS/DME	11	108.900	26X		LSL	TRD 582421N 154036E 580519N 131022E	292	25/62.5	25/100		100		27	Will replace 3S5192	
	LJUNGBYHED	2891	ILS	29L	111.700			DA	TRD 650438N 131224E 560459N 131204E	114	25/62.5			62				
	LJUNGBYHED	2892	VOR/DME		113.400	81X		LJU	TRD 560519N 131022E 560453N 131224E	317	40/250	40/250		250	17	37		
	LJUNGBYHED	71705	ILS/DME	29L	108.550	22Y		DA	TRD 653128N 220903E 653128N 220616E	114	25/62.5	25/100		100		27	Will replace 3S2891 during 2020-2021	
	LULEA/KALLAX	2896	ILS/DME	14	110.300	40X		PA	TRD 653324N 220535E 653207N 220841E	317	25/62.5	25/100		100		29	DME will be operational in 2023.	
	LULEA/KALLAX	4891	ILS/DME	32	109.900	36X		SPA	TRD 643200N 184300E 643248N 184258E	137	25/62.5	25/100		100		27		
	LYCKSELE	2897	ILS/DME	32	110.500	42X		NL	TRD 643228N 184343E 643315N 184233E	143	25/62.5	25/100		100		27		
	LYCKSELE	3486	ILS/DME	14	108.700	24X		WL	TRD 553114N 132246E 553244N 132236E	323	25/62.5	25/100		100		28	DME: Ongoing installation and soon to be in operation.	
	MALMO	2901	ILS/DME	17	111.900	56X		NMS	TRD 553302N 132224E 553134N 132250E	353	25/62.5	25/100		100		29		
	MALMO/STURUP	2898	ILS/DME	35	108.100	18X		SMS	TRD 553134N 132251E 632422N 185937E	173	25/62.5	25/100		100		27		
	MALMO/STURUP	2914	VOR/DME		115.000	97X		OSK	TRD 632414N 190029E 632449N 185837E		60/500	60/500		500	20	37		
	MALMO/STURUP	5319	ILS/DME	12	110.100	38X		NO	TRD 632454N 185803E 632418N 185957E Alt=3	302	25/62.5	25/100		100		27		
	MALMO/STURUP	73707	ILS/DME	30	110.350	40Y		ENO	TRD 671419N 230615E 671457N 230331E	122	25/62.5	25/100		100		30		
	PAJALA	4906	ILS/DME	11	111.500	52X		IJP	TRD 671456N 230444E 561516N 151543E	298	25/62.5	25/100		100		27		
	PAJALA	5570	DME			100Y		PJL	(blank)		(blank)	120/500		500		37		
	RONNEBY	2921	ILS/DME	19	110.700	44X		DF	TRD 561627N 151555E 561515N 151549E	9	25/62.5	25/100		100		29	DME: Ongoing installation and soon to be in operation.	
	RONNEBY	3487	DME			29X		RON	TRD 561649N 151608E 561535N 151541E		(blank)	100/500		500		37		
	RONNEBY	29009	ILS/DME	1	108.300	20X		NDF	TRD 582454N 124233E 582609N 124242E	189	25/62.5	25/100		100		27		
	SATENAS	4894	ILS/DME	19	109.500	32X		IBC	TRD 582628N 124242E 643741N 210305E	5	25/62.5	25/100		100		27		
	SATENAS	29672	ILS/DME	1	111.150	48Y		IBT	TRD 643726N 210609E 643736N 210446E	185	25/62.5	25/100		100		29	DME: Ongoing installation and soon to be in operation.	
	SKELLEFTEA	2026	ILS/DME	28	109.500	32X		NS	TRD 582647N 135802E 582741N 135839E	106	25/62.5	25/05		95		28	DME will be in operation summer 2019.	
	SKELLEFTEA	4849	VOR/DME		113.400	81X		SKA	TRD 582726N 135810E 582741N 135839E		100/500	100/500		500	20	37		
	SKOVDE	2928	ILS/DME	19	108.300	20X		SY	TRD 594000N 175900E	16	25/62.5	25/100		100		27		
	STOCKHOLM/ARLANDA	2933	ILS	8	109.550			WSA	594000N 175900E	256	25/62.5			62				

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STOCKHOLM/ARLANDA		2934	ILS/DME	01L	109.900	36X		SSA	TRD 594006N 175528E	190	25/62.5	25/100		100		29			
									593526N 175442E										
		2936	ILS/DME	26	110.100	38X			ESA	TRD 593929N 175556E	76	25/62.5	25/100		100		29		
										593951N 175521E									
		2937	ILS/DME	19R	110.700	44X			NSA	TRD 593806N 175445E	10	25/62.5	25/100		100		27		
										593949N 175512E									
		4642	DME						ARW	594248N 175199E									
		4643	DME						ANE	594138N 160338E									
		4644	DME						ASW	593516N 174911E									
		4645	DME						ASE	593814N 175732E									
4735	ILS/DME	01R	109.350	30Y			TSA	TRD 593745N 175714E	190	25/62.5	25/100		100		27				
								593745N 175715E											
4736	ILS/DME	19L	111.350	50Y			USA	TRD 593726N 175659E	10	25/62.5	25/100		100		27				
								593844N 175738E											
2940	ILS/DME	30	109.700	34X			SBA	TRD 592143N 175913E	125	25/62.5	25/100		100		29				
								592102N 175659E											
2941	ILS/DME	12	110.300	40X			SB	TRD 592057N 175722E	305	25/62.5	25/100		100		31				
								592123N 175559E											
2944	ILS/DME	8	111.300	50X			WEK	TRD 584724N 165558E	263	25/62.5	25/100		100		29				
								584716N 165314E											
2945	ILS/DME	26	111.900	56X			EKN	TRD 584711N 165239E	83	25/62.5	25/100		100		22	Added DME			
								584726N 165528E											
3398	VOR/DME		116.300	110X			SLM	TRD 6045720N 142439E	100/500	100/500			500	17	37				
								TRD 620254N 142629E											
4275	ILS/DME	9	109.100	28X			IND	TRD 620255N 142438E	267	25/62.5	25/100		100		27				
								620247N 142443E											
5967	DME						SVE	TRD 601902N 125959E	158	25/62.5			500		37				
								601000N 125900E											
2955	ILS	34	110.900				ST	TRD 600855N 125955E	158	25/62.5			62						
								600900N 130000E											
5502	ILS/DME	16	108.700	24X			NST	TRD 600928N 125933E	338	25/62.5	25/100		100		27				
								TRD 581935N 122002E											
2957	ILS/DME	33	111.900	56X			TRH	TRD 581852N 122049E	146	25/62.5	25/100		100		27				
								TRD 634654N 201811E											
2960	ILS/DME	14	109.900	36X			SNU	TRD 634744N 201818E	318	25/62.5	25/100		100		27				
								TRD 634759N 201601E											
4476	ILS/DME	32	110.700	44X			SNU	TRD 634705N 201737E	138	25/62.5	25/100		100		27				
								634705N 201736E Alt=7											
2963	ILS/DME	21	109.100	28X			CM	TRD 595416N 173602E	33	25/62.5	25/100		100		27	MIL			
								TRD 565459N 144321E											
2967	ILS/DME	19	109.700	34X			MX	TRD 565607N 144338E	13	25/62.5	25/100		100		27				
								TRD 565627N 144339E											
4296	ILS	1	109.100				SMX	TRD 655200N 144400E	193	25/62.5			62						
								655200N 201000E											
5515	ILS/DME	29	110.100	38X			VID	TRD 643451N 164855E	103	25/62.5	25/100		100		27	MIL			
								643448N 165019E											
2971	ILS/DME	28	109.900	36X			INV	TRD 643451N 164855E	103	25/62.5	25/100		100		27				
								643451N 164855E											
2972	VOR/DME		115.100	98X			VSB	@673934N 182049E	150/500	150/500			500	20	37				
								575107N 190147E Alt=41											
9020	DME			113X			BGE	575107N 190147E Alt=41	100/500	100/500			500		37				
								680531N 214126E											
6877	DME			106X			SPO	680531N 214126E	100/500	100/500			500		37				
								581623N 162432E											
6876	DME			103X			MBL	581623N 162432E	100/500	100/500			500		37				
								633554N 162448E											
6320	DME			114X			RAE	633554N 162448E	100/500	100/500			500		37				
								641403N 165600E											
6319	DME			104X			HOT	641403N 165600E	100/500	100/500			500		37				
								574539N 125031E											
5968	DME			103Y			SDH	574539N 125031E	100/500	100/500			500		37				
								TRD 583505N 161549E											
2908	ILS/DME	27	109.500	32X			SP	TRD 583505N 161549E	91	25/62.5	25/100		100		28				
								TRD 583509N 161628E											
5193	ILS/DME	9	111.100	48X			KSP	TRD 583514N 161412E	271	25/62.5	25/100		100		27				
								583514N 161412E											
5159	DME			120Y			SWE	ALL SWEDEN(LAND)	100				100		27	TEST STATION			
								585501N 121749E											
5155	DME			100Y			FEN	585501N 121749E	100/500	100/500			500		38				
								593510N 163901E											
4646	VOR/DME		112.800	75X			ARS	TRD 593510N 163901E	80/500	80/500			500	17	37				
								TRD 591219N 150150E											
2911	ILS/DME	19	108.500	22X			NOE	TRD 591419N 150232E	12	25/62.5	25/100		100		27				
								591238N 150150E											
4610	ILS	1	109.100				SOE	TRD 631116N 143155E	192	25/62.5			62						
								631154N 142944E											
2916	ILS/DME	12	109.500	32X			PC	TRD 631154N 142944E	295	25/62.5	25/100		100		27				
								150/500 150/500											
4119	VOR/DME		114.650	93Y			OSS	TRD 593158N 142915E	150/500	150/500			500	17	37				
								593154N 181212E											
3605	VOR/DME		117.100	118X			TEB	TRD 593158N 142915E	100/250	100/250			250	17	37				
								573850N 182008E											
2974	ILS/DME	21	109.150	28Y			SV	TRD 574008N 182107E	100	25/62.5	25/100		100		29				
								TRD 593538N 163747E											
2965	ILS/DME	19	108.300	20X			SCD	TRD 593555N 163807E	12	25/62.5	25/100		100		27				
								581811N 154235E											
2964	VOR/DME		115.250	99Y			VSN	TRD 581811N 154235E	100/500	100/500			500	17	37				
								634719N 201707E											
2959	VOR/DME		114.100	88X			UME	634719N 201707E	150/500	150/500			500	20	37				
								@685666N 120050E											
2958	VOR/DME		114.300	90X			TBS	TRD 685666N 120050E	120/500	120/500			500	17	37				
								561008N 123426E											
2953	DME			109X			SVD	TRD 561008N 123426E	100/500	100/500			500		37				
								80/500 80/500											
2947	VOR/DME		113.000	77X			SUP	@853204N 132248E	80/500	80/500			500	17	37				
								664447N 211921E											
2905	VOR/DME		113.000	77X			NAT	TRD 605851N 143107E	80/500	80/500			500	20	37				
								TRD 605851N 143107E											
2904	ILS	16	109.700				NKM	TRD 605749N 143035E	341	25/62.5			62						
								632225N 220803E											
2893	VOR/DME		115.100	98X			SLU	TRD 632225N 220803E	60/500	60/500			500	20	37				
								579922N 121724E											
2883	VOR/DME		114.600	93X			LAV	TRD 579922N											

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CTY	Location	SAFIRE Ref	Service	Rwy Designator	VHF Channel	DME Channel	MLS Channel	Id	Co-ordinates	TRD	VHFDOC	DMEDEC	MLSDOC	MaxFL	VHF EIRP	DME EIRP	Remarks	
S	BACKA	2830	DME				74X	BAK	@573319N 115837E		(blank)	100/500		500		37		
	ARLANDA	2826	VOR/DME		116.000	107X		ARL	593912N 175452E		100/500	100/500		500	17	37		
	SUNDSVALL/TIMRA	2948	VOR/DME		113.100	78X		SUN	623142N 172658E		100/500	150/500		500	20	37		
									TRD 623101N 172710E									
		2950	ILS/DME	16	108.700	24X		NNN	623204N 172632E	340	25/62.5	25/100		100		28		
		2951	ILS/DME	34	110.300	40X		SNN	TRD 623237N 172554E		160	25/62.5	25/100		100		28	
	SALEN	59646	ILS/DME	33	111.350	50Y		SAL	610929N 125045E	147	25/62.5	25/100		100	23	28		
		59645	ILS/DME	15	109.550	32Y		SAE	TRD 610909N 125103E		327	25/62.5	25/100		100	23	28	
SRB	BEOGRAD	9022	VOR/DME		112.050	57Y		BGD	611020N 124936E		150/500	150/500		500	20	37		
	BEOGRAD/SURCIN	3275	ILS	30	109.900			YBE	TRD 444942N 201714E		122	25/62.5			62			
		3276	ILS/DME	12	110.300	40X		YUB	TRD 444852N 201915E		302	25/62.5	50/500		500		37	
	KRALJEVO	3610	VOR/DME		116.300	110X		KRV	TRD 444830N 201955E		60/500	60/500		500	17	29		
	NIS	3281	VOR/DME		113.900	86X			444934N 201744E									
		41265	ILS/DME	29	109.300	30X		YNI	TRD 432010N 215108E		114	25/62.5	25/450		450		29	
		68505	VOR/DME		113.900	86X			432001N 215144E									
	PRISTINA	3294	ILS	18	110.100			PRS	423400N 210200E			25/62.5			62			
	VALJEVO	3308	VOR/DME		116.600	113X		VAL	441926N 195229E		100/500	100/500		500	17	37		
	VRSAČ	7170	VOR/DME		115.000	97X		VAC	450016N 211624E		150/500	150/500		500	20	37		
	BEOGRAD/BATAJNICA	9021	ILS/DME	12L	108.900	26X		BTJ	TRD 445555N 201607E		305	25/62.5	25/450		450		29	
	TOPOLA	4759	VOR/DME		116.800	115X		TPL	445642N 201424E		80/500	80/500		500	17	37		
	BLACE	3397	VOR/DME		116.100	108X		BLC	440837N 204440E		100/500	60/500		500	17	37		
	MITROVICA	3282	VOR/DME		117.000	117X		SMI	431458N 212142E		100/500	100/500		500	11	37		
	BUDISAVCI	3278	VOR/DME		115.200	99X		BUI	424200N 203100E		80/500	80/500		500	17	37	ICAO suspended publications for Kosovo/Prishtin;	
									TRD 485423N 073024E									
SUI	BERN-BELP	5845	ILS/DME	14	110.100	38X		IBE	465501N 072948E		320	25/62.5	25/100		100		27	
	DUBENDORF	6102	ILS/DME	29	111.150	48Y		IDU	TRD 472409N 083749E		109	25/62.5	25/100		100		27	MIL airport with future CIV use
	EMMEN	6104	ILS/DME	22	110.350	40Y		EMM	472343N 083934E		38	25/62.5	25/100		100		27	MIL airport with future CIV use
	GRENCHEN	4896	VOR/DME		115.450	101Y		GRE	TRD 470522N 081845E		25/100	25/100		100	20	27		
	LES EPLATURES	4811	ILS/DME	24	108.150	18Y		ICF	471059N 072505E		54	25/62.5	25/100		100		27	
	LUGANO-AGNO	7113	ILS/DME	1	108.900	26X		ILU	TRD 470451N 064712E		199	25/62.5	#####		62		14	
									470309N 064744E									
	PAYERNE	4827	ILS/DME	23	109.300	30X		IPY	TRD 460041N 085451E		49	25/62.5	25/100		100		27	MIL airport with future CIV use
									460001N 085434E									
		5998	ILS/DME	5	109.950	36Y		IPN	TRD 465000N 085355E		229	25/62.5	25/100		100		27	MIL airport with future CIV use
									464958N 085356E									
									465117N 085602E									
	SION	5524	ILS/DME	25	110.700	44X		ISI	TRD 465108N 085417E		73	25/62.5	30/200		200		27	
		5841	VOR/DME		112.150	58Y		SIO	461356N 071720E			40/250	40/250		250	20	37	
	ST.GALLEN-ALTENRHEIN	4819	ILS/DME	10	108.750	24Y		IAL	TRD 472901N 093415E		279	25/62.5	25/100		100		27	
	HOCHWALD	39545	DME			79X		HOC	472906N 093316E			(blank)	85/500		500		39	Replaces VOR/DME 3SU16125. Same DME channe
WILLISAU	6122	VOR/DME		116.900	116X		WIL	@471942N 071542E			50/250	80/250		250	20	37		
ZURICH	5800	ILS/DME	34	110.750	44Y		IZS	TRD 472845N 083201E		155	25/62.5	25/100		100		27		
								472705N 083307E										
	5850	ILS/DME	28	109.750	34Y		IZW	TRD 472704N 083307E		96	25/62.5	25/100		100		27		
	5852	GBAS		114.050			LSZH	472704N 083307E			23/100			100	17			
	6061	ILS/DME	16	110.500	42X		IZH	TRD 472636N 083330E		335	25/62.5	25/100		100		27		
								472823N 083223E										
	27123	ILS/DME	14	111.750	54Y		IKL	TRD 472736N 083359E		317	25/62.5	25/100		100		27		
GENEVA	6033	VOR/DME		115.750	104Y		GVA	472950N 083226E			50/250	50/250		500	23	37		
CORVATSCH	6031	DME			57Y		CVA	461514N 083756E			(blank)	80/500		500		37		
ZURICH/EAST	5763	VOR/DME		110.050	37Y		ZUE	462505N 094918E			80/500	80/500		500	23	39		
	5881	VOR/DME		114.550	92Y		ZET	473523N 084904E			60/500	60/500		500	23	37		
WEISSFLUH/GIPFEL	5886	DME			84Y		WFJ	473600N 084909E			80/500	80/500		500		37		
PASSEIRY	5799	VOR/DME		116.600	113X		PAS	465004N 085422E			80/500	80/500		500	20	37		
FRIBOURG	5798	VOR/DME		110.850	45Y		FRI	460949N 060000E			100/500	100/500		500	20	37		
LA PRAZ	5347	DME			43Y		LAP	@464639N 071325E			(blank)	80/500		500		37		
ST PREK	5297	VOR/DME		113.900	86X		KLO	472726N 083244E			50/250	50/250		250	20	37		
KLOTEN	4478	VOR/DME		114.850	99Y		TRA	474122N 082613E			100/500	100/500		500	17	39		
TRASADINGEN	3031	VOR/DME		114.300	90X			TRD 461513N 060754E										
								461350N 060544E		226	25/62.5	25/100		100		27		
GENEVE/COINTRIN	5843	ILS/DME	4	110.900	46X		NE	461500N 060605E			23/100			100	17			
	6027	GBAS		113.050			LSGG	TRD 461329N 060522E										
	54166	ILS/DME	22	108.700	24X		ISW	461456N 060722E		46	25/62.5	25/100		100		27	RPL GVA ILS 22, 109.9, 3SU15797, planned to become operational 12/2019	
								TRD 480831N 171147E										
SVK	BRATISLAVA/IVANKA	3041	ILS/DME	22	108.300	20X		OKR	481036N 171329E	44	25/62.5	25/100		100		27		
		3043	ILS/DME	31	110.700	44X		OB	TRD 481042N 171200E	134	25/62.5	50/100		100		27		

COM3- List of national and international assignments in country order

CTY	Location	SAFIRE Ref	Service	Rwy Designator	VHF Channel	DME Channel	MLS Channel	Id	Co-ordinates	TRD	VHFDOC	DMEDOC	MLSDOC	MaxFL	VHF EIRP	DME EIRP	Remarks
SVK	KOSICE	3048	ILS/DME	1	109.500	32X		KE	TRD 484052N 211451E 483908N 211409E	193	25/62.5	25/100		100		27	
		4959	VOR/DME		109.200	19X		KSC	484059N 211463E		80/100	80/100		100	17	37	
	MALACKY	4912	ILS/DME	2	111.550	52Y		RP	TRD 482400N 171060E	17	25/62.5	25/250		250		27	MIL
		5266	TAC			107X		MLC	482200N 171200E		(blank)	40/250		250		40	MIL
	NITRA	3049	VOR/DME		116.500	112X		NIT	@481726N 180302E		80/500	80/500		500	17	37	
	PIESTANY	4817	ILS/DME	1	109.300	30X		CT	TRD 483511N 174988E	194	25/62.5	25/63		63		27	
		3054	ILS/DME	27	110.100	38X		TT	TRD 490429N 201305E	94	25/62.5	25/63		63		27	
	POPRAD/TATRY SLIAC	3057	VOR/DME		114.000	87X		SLC	482712N 190657E		60/500	60/500		500	17	37	
		4787	ILS/DME	36	108.700	24X		FS	TRD 483908N 190609E	182	25/62.5	25/100		100		27	
	ZILINA	5976	ILS/DME	6	108.150	18Y		ZNA	TRD 491412N 183728E 491352N 183636E	245	25/62.5	25/250		250		27	
ALL SLOVAKIA		5384	TAC			126X	SVZ	REPUBLIC(LAND)		(blank)	40/250		250		36	MIL	
PRESOV HALAGOS		5380	TAC			80X	PRH	490600N 212200E		(blank)	40/250		250		36	MIL	
POPRAD		3052	VOR/DME		112.100	58X		PPD	490353N 202100E		60/500	60/500		500	17	37	
JANOVICE		3045	VOR/DME		110.800	45X		JAN	481043N 173241E		60/500	60/500		500	17	37	
KOSICE MAROVKA		71526	DME			88X		KTN	491557N 203634E		(blank)	80/450		450		37	
		71525	DME			99X		KSM	483548N 212548E		(blank)	80/450		450		37	
DUBNIK		71585	DME			23Y	DUB	485525N 212744E		(blank)	80/450		450		37		
CERTOVICE		71532	DME			24Y	CRT	485400N 184545E		(blank)	80/450		450		37		
GRAJNAR		71531	DME			21Y	GRJ	485117N 203059E		(blank)	80/450		450		37		
PRESOV ZABORSKE	71530	DME			19Y	PSV	485642N 211707E		(blank)	80/450		450		37			
SVN	MOLDAVA NAD BODVOL	71529	DME			34Y	MDA	482043N 171635E		(blank)	80/450		450		37		
		71528	DME			110X	MLD	483657N 205903E		(blank)	80/450		450		37		
	CERKLJE	7158	VOR/DME	9	108.250	19Y	CKK	455400N 153100E		50/250	50/250		250	20	37	MIL DVOR	
	LJUBLJANA	30265	ILS/DME	9	111.100	48X	CKL	TRD @455400N 153300E	270	25/62.5	25/100		100		27	MIL , operational 2015	
	LJUBLJANA/BRNIK	6844	VOR/DME		117.200	119X	LBL	461441N 182343E		50/250	50/250		250	20	37		
	MARIBOR/MARIBOR	4477	ILS/DME	30	110.500	42X	LJB	TRD 461256N 142814E	126	25/62.5	25/100		100		27		
	PORTOROZ	2979	ILS/DME	32	110.100	38X	MAR	TRD 462930N 154029E	146	25/62.5	25/100		100		27		
	DOLSKO	6924	VOR/DME		115.150	98Y	POR	452829N 133644E		50/250	50/250		250	17	30	TVOR	
	BISTRICA	3280	VOR/DME		112.700	74X	DOL	460503N 144643E		100/500	100/500		500	11	37		
	ALL SLOVENIA	2975	VOR/DME		114.800	95X	ILB	453356N 141019E		60/500	60/500		500	17	37		
TJK	DUSHANBE	30144	TAC			112Y	ALL SLOVENIA(LAND)		(blank)	40/250		250		40	MIL		
		30143	TAC			54X	ALL SLOVENIA(LAND)		(blank)	40/250		250		40	MIL		
	30142	TAC			34X	ALL SLOVENIA(LAND)		(blank)	40/250		250		40	MIL			
	30141	TAC			26Y	ALL SLOVENIA(LAND)		(blank)	40/250		250		40	MIL			
	DJERBA/ZARZIS	3654	ILS		000.000		IFN	382900N 684900E		25/62.5			62				
	GABES	3067	ILS/DME	9	109.500	32X		JAZ	TRD 335233N 104748E	269	25/62.5	25/100		100		29	
		3069	VOR/DME		112.200	59X		JBA	335238N 104618E		150/500	150/500		500	17	37	
	SFAX/THYNA	5472	VOR/DME		115.400	101X		GAB	334358N 085125E		25/100	100/450		450	17	30	
	TABARKA	5473	VOR/DME		114.000	87X		SFX	344258N 104120E		100/450	100/450		450	17	30	
	TOZEUR/NEFTA	3521	ILS/DME	27	110.700	44X		TAB	TRD 365851N 085125E	93	25/62.5	25/100		100		29	
3522		VOR/DME		113.300	80X		TBK	365842N 085315E		200/500	200/500		500	20	37		
TUNIS/CARTHAGE	3075	ILS/DME	9	110.500	42X		TOZ	TRD 335628N 090718E	270	25/62.5	25/100		100		29		
	4361	VOR/DME		117.000	117X		TON	335628N 090601E		135/300	135/300		300	17	37		
AEROPORT INTERNATIONAL ENFIDHA	3077	ILS/DME	19	110.300	40X		TSI	TRD 365012N 101323E	12	25/62.5	25/100		100		29		
	4359	ILS/DME	29	108.500	22X		TKE	TRD 365119N 101254E	113	25/62.5	25/100		100		20	100W	
TUNIS	4360	VOR/DME		116.500	112X		TUC	365106N 101349E		100/500	100/500		500	17	30		
	71666	ILS/DME	1	111.100	48X		TBL	365031N 101323E	193	25/62.5	25/100		100		20		
MONASTIR/SKANES	6205	ILS/DME	9	109.300	30X		NZI	TRD 360432N 102736E	270	25/62.5	40/100		100		29		
	6564	VOR/DME		114.350	90Y		NBA	360429N 102525E		200/500	170/500		500	20	39	DVOR VOR/DME (dce 170/500 in the 0/70 sector & 200 in 70/360 sector/500)	
BEN AOUN	6204	ILS/DME	27	108.100	18X		EBI	TRD 360433N 102501E	90	25/62.5	40/100		100		24		
	4362	VOR		113.800			EBA	360428N 102712E		40/250			250	17	37		
GAFSA	3072	VOR/DME		113.100	78X		MKN	TRD 314221N 091517E		100/500	100/500		500	17	30		
	3065	VOR		115.300			BAN	345147N 091003E		200/500			500	17	30		
BIZERTE	71665	VOR/DME		109.000	27X		GAF	342514N 084927E		100/500	100/500		500	17	30		
	6274	VOR/DME		114.200	89X		BIZ	371413N 094559E		100/500	100/500		500	17	30	DVOR	
ADANA	3070	ILS/DME	7	109.900	36X		MIS	TRD 354544N 101355E	254	25/62.5	25/100		100		29		
	3066	VOR		112.700			CBN	354521N 104429E		150/500			500	17	37		
ADANA/INCIRLIK	3079	VOR/DME		112.700	74X		ADA	TRD 365344N 110518E		100/500	100/500		500	17	37		
	7021	ILS/DME	5	108.700	24X		IADA	TRD 365626N 351237E	234	25/62.5	25/100		100		27		
ADANIYAMAN-KAHTA	3082	TAC			21X		DAN	TRD 365939N 352455E		(blank)	200/600		600		40		
	3083	ILS	5	109.300			IDAN	TRD 365939N 352455E	233	25/62.5			62				
AFYON	74029	ILS	23	111.700			IDNA	TRD 365929N 352430E	53	25/62.5			62				
	4418	VOR/DME		113.600	83X		KHD	TRD 370034N 352609E		100/400	100/400		400	17	37		
AGRI	3084	TAC			99X		KFK	TRD 374329N 382724E		(blank)	100/400		400		40		
	3085	VOR/DME		112.200	59X		KFK	384316N 303648E		150/500	150/500		500	17	37		
AGRI	27754	ILS/DME	31R	109.350	30Y		IKFK	TRD 384424N 303502E	134	25/62.5	25/100		100		27		
	4234	VOR/DME		116.700	114X		ARI	TRD 384302N 303700E		50/250	50/250		250	15	37		

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CTY	Location	SAFIRE Ref	Service	Rwy Designator	VHF Channel	DME Channel	MLS Channel	Id	Co-ordinates	TRD	VHFDC	DMEDOC	MLSDOC	MaxFL	VHF EIRP	DME EIRP	Remarks
	AGRI	5991	ILS/DME	16	108.150	18Y		IAGR	TRD 393836N 430149E 394009N 430121E	345	25/62.5	40/250		250	40	27	
	AKHISAR	3086	TAC			39X		AKI	384900N 275100E		(blank)	200/600		600		40	
	AKINCI	3168	TAC			92X		ZIR	400510N 323434E		(blank)	200/600		600		40	
	ALL TURKEY	3087	VOR		112.600				ALL TURKEY(LAND)		100/500			500	17		MOBILE
		3088	TAC			108X			ALL TURKEY(LAND)		(blank)	100/300		300		40	EAST ONLY
		3089	TAC			115X			ALL TURKEY(LAND)		(blank)	100/400		400		40	WEST ONLY
		3090	TAC			118X			ALL TURKEY(LAND)		(blank)	100/300		300		40	WEST ONLY
		3091	TAC			125X			ALL TURKEY(LAND)		(blank)	100/400		400		40	EAST ONLY
		3092	TAC			34X		MSB	ALL TURKEY(LAND)		(blank)	40/250		250		40	
		3093	TAC			54X		MSC	ALL TURKEY(LAND)		(blank)	40/250		250		40	
		3094	TAC			26Y		MSA	ALL TURKEY(LAND)		(blank)	40/250		250		40	
		3095	TAC			112Y		MSD	ALL TURKEY(LAND)		(blank)	40/250		250		40	
	AMASYA/MERZIFON	3166	TAC			30X		MNI	404931N 353035E		(blank)	200/600		600		40	
		3167	TAC			76X		MNI	405000N 353200E		(blank)	100/400		400		40	
		4319	VOR/DME		109.800	33X		MNI	404917N 353047E	100/400	100/400			400	17	37	
		6177	ILS/DME	5	109.150	28Y		IMNI	405000N 353100E		25/62.5	50/250		250		27	
									TRD 400640N 325850E 400623N 330022E					100		27	
	ANKARA/ESENBOGA	3097	ILS/DME	21L	108.100	18X		IESB	400651N 325840E	36	25/62.5	25/100		100		27	
		3099	ILS/DME	21R	108.300	20X		IEBG	400826N 330014E	36	25/62.5	25/100		100		27	
		3100	ILS/DME	03L	108.900	26X		IAGR	400714N 325904E	216	25/62.5	25/100		100		27	
		6973	VOR/DME		112.100	58X		ESB	400848N 330045E		25/100	25/100		100	17	27	
		7027	ILS/DME	03R	110.300	40X		IANK	400700N 325903E	216	25/62.5	25/100		100		27	
		56585	VOR/DME		114.850	95Y		NEG	400904N 330114E		25/100	25/100		100	17	27	DHMI
									TRD 400837N 330041E								
	ANTALYA	3104	ILS/DME	36C	110.300	40X		IAYT	365318N 304723E	186	25/62.5	25/100		100		27	
		3106	VOR/DME		114.000	87X		AYT	365500N 304800E		150/500	150/500		500	17	37	
		3107	TAC			102X		AYT	365433N 304723E		(blank)	200/600		600		40	
									TRD 365450N 304842E								
		5095	ILS/DME	36R	108.100	18X		IALY	365300N 304832E	186	25/62.5	25/100		100		27	
		5532	VOR/DME		111.650	53Y		LRA	365238N 304820E		40/250	40/250		250	17	37	
		6613	ILS/DME	18L	109.750	34Y		ILRA	TRD 365241N 304825E 365200N 304800E	6	25/62.5	40/100		100		37	
		7032	ILS/DME	18C	108.700	24X		IATY	TRD 365256N 304725E 365446N 304735E	6	25/62.5	25/100		100		27	
		7033	DME			28X		ANT	365233N 304722E		(blank)	25/600		500		27	
	ANTALYA/GAZIPASA	7115	ILS/DME	8	108.500	22X		IGZF	TRD 361602N 321844E	261	25/62.5	25/100		100		27	
	AYDINCILDIR	27059	VOR/DME		113.650	89Y		CLD	374653N 374647E		25/100	25/100		100	17	27	
	BALIKESIR	3108	TAC			43X		BRI	393704N 275540E		(blank)	200/600		600		40	
		3109	TAC			96X		BRI	393600N 275600E		(blank)	100/300		300		40	
									TRD 393809N 275556E 393831N 275595E					100		27	
	BANDIRMA	27253	ILS/DME	36	111.750	54Y		IBRI	401900N 275856E	182	25/62.5	85/100		100		27	
		3110	TAC			47X		BDM	401900N 275856E		(blank)	200/600		600		40	
		3111	TAC			104X		BDM	402000N 275800E		(blank)	100/400		400		40	
									TRD 402010N 275842E 401926N 275845E					100		27	
	BATMAN	7119	ILS/DME	36	108.300	20X		IBDM	375455N 410620E	181	25/62.5	25/100		100		27	
		3112	TAC			53X		BAT	375455N 410620E		(blank)	200/600		600		40	
		3113	TAC			102X		BAT	375500N 410000E		(blank)	100/300		300		40	
		4222	VOR/DME		116.200	109X		BAT	375615N 410712E		100/500	100/500		500	17	37	
		6175	ILS/DME	2	108.100	18X		IBAT	TRD 375643N 410736E 375509N 410634E	206	25/62.5	50/250		250		27	
		6900	VOR/DME		112.100	58X		BNG	385120N 403603E		25/100	25/100		100	17	27	
	BINGOL	7321	ILS/DME	12	108.350	20Y		IBIN	TRD 385158N 403626E 385158N 403511E	301	25/62.5	25/100		100		27	
		3609	VOR/DME		115.300	100X		BRY	401545N 293539E		50/250	50/250		250	17	37	
	BURSA/YENISEHIR	4483	ILS/DME	25R	108.500	22X		IYEN	TRD 401505N 293229E 401536N 293431E	74	25/62.5	25/100		100		27	DHMI
		4374	VOR/DME		111.200	49X		CNK	400807N 262539E		50/250	50/250		250	17	37	
									TRD 400840N 262608E								
	CARDAK	6182	ILS/DME	4	108.150	18Y		ICNK	400749N 262501E	222	25/62.5	50/250		250		27	
	CORLU	3119	TAC			60X		CRD	374643N 294131E		(blank)	100/400		400		40	
		3121	TAC			106X		CLU	410800N 275500E		(blank)	100/300		300		40	
									TRD 410858N 275610E								
		4323	ILS/DME	4	110.500	42X		ICRL	410750N 275433E	229	25/62.5	25/100		100		27	
		4415	VOR/DME		114.800	95X		CRL	410903N 275606E		50/250	50/250		250	17	37	
	DALAMAN	3123	VOR/DME		114.700	94X		DAL	364122N 284456E		80/250	80/250		250	17	37	
		3124	TAC			100X		DAL	364348N 284200E		(blank)	100/400		400		40	
									TRD 364346N 284763E 364210N 284726E					100		27	
		7045	ILS/DME	1	110.100	38X		IDLM	364148N 284713E 364348N 284726E	195	25/62.5	25/100		100		27	
									TRD 364147N 284715E 364147N 284715E					100		24	
	DENIZLIL/CARDAK	28144	ILS/DME	19	110.900	46X		IDMN	374724N 294215E	15	25/62.5	25/100		100		27	
		7041	VOR/DME		112.000	57X		CRD	374724N 294215E		80/400	80/400		40	17	27	
									TRD 374635N 294067E 374724N 294200E					100		27	
	DIYARBAKIR	7049	ILS/DME	23	110.700	44X		ICRD	375500N 401200E	59	25/62.5	25/100		100		27	
		3127	TAC			121X		DIY	375500N 401200E		(blank)	100/300		300		40	
		5005	VOR/DME		109.400	31X		DYB	375224N 401230E		80/400	80/400		400	17	37	
		5310	TAC			37X		DIY	375455N 401144E		(blank)	100/400		400		40	
									TRD 375446N 401137E								
	EDREMIT	7051	ILS/DME	34	108.500	22X		IDBN	375251N 401217E	163	25/62.5	25/100		100		27	
		6717	ILS/DME	5	108.900	26X		IKFZ	393200N 270000E		25/62.5	25/100		100		27	
	ELAZIG	5989	VOR/DME		112.150	58Y		ELG	383548N 391702E		50/250	50/250		250	17	27	
									TRD 383538N 391544E								
		6133	ILS/DME	25	110.300	40X		IELG	383557N 391743E	76	25/62.5	100/250		250		27	
		3162	VOR/DME		116.300	110X		KSR	384632N 353119E		100/250	25/100		250	17	27	
									TRD 384600N 352832E 384619N 353033E					100		27	</

COM3- List of national and international assignments in country order

CTY	Location	SAFIRE Ref	Service	Rwy Designator	VHF Channel	DME Channel	MLS Channel	Id	Co-ordinates	TRD	VHFDOC	DMEDOC	MLSDOC	MaxFL	VHF EIRP	DME EIRP	Remarks
ERZINCAN		5308	TAC				86X										
		5988	VOR/DME		112.050	57Y		EZN	395614N 385313E		50/250	50/250		250	17	27	
		6787	ILS/DME		108.900	26X		IEZC	TRD 394300N 393029E 394302N 393030E	111	25/62.5	25/100		100		27	
ERZURUM		3132	ILS/DME	26R	110.500	42X		IERZ	395725N 411121E	88	25/62.5	25/100		100	27	27	
		3133	TAC			51X		ERZ	395732N 410911E		(blank)	200/600		600	40	40	
		3135	TAC				84X	ERZ	395900N 411209E		(blank)	100/400		400	40	40	
		5273	VOR/DME		115.500	102X		ERZ	395724N 411226E		80/400	80/400		400	17	37	
ESKISEHIR		6332	ILS/DME	08L	110.700	44X		IEZR	395721N 410906E	268	25/62.5	25/100		100	29	29	
		3138	TAC			91X		ESK	394701N 303423E		(blank)	134/300		300	40	40	
		4482	ILS		110.300			IESR	394833N 303017E	273	25/62.5			62			
		4723	VOR/DME		108.200	19X		ESR	394848N 303045E		20/150	20/150		150	17	27	
GAZIANTEP/OGUZELI		27753	ILS/DME	26	108.750	24Y		IESK	394703N 303333E	90	25/62.5	25/100		100	27	27	
		5274	VOR/DME		116.700	114X		GAZ	365706N 372823E		60/400	60/400		400	17	37	
		7061	ILS/DME	28	109.100	28X		IGNP	365640N 372929E	105	25/62.5	25/100		100	27	27	
HATAY		5992	VOR/DME		112.050	57Y		HTY	362147N 361735E		50/250	50/250		250	17	27	
		5993	ILS/DME	22	108.150	18Y		IHTY	362210N 361750E	43	25/62.5	25/100		100	27	27	
		35945	ILS/DME	4	108.900	26X		IHAT	362228N 361809E	223	25/62.5	25/100		100	27	27	
IGDIR		7165	VOR/DME		117.700	124X		GDR	395821N 435311E		25/100	100/500		500	13	37	
		7320	ILS/DME	12	108.350	20Y		IIGD	395800N 435100E	310	25/62.5	25/100		100	27	27	
ISPARTA		4228	VOR/DME		117.500	122X		IPT	375632N 302041E		50/400	50/400		400	20	37	
		7315	ILS/DME	5	109.150	28Y		ISPT	375103N 302130E	230	25/62.5	25/100		100	27	27	
ISTANBUL		3143	VOR/TAC		112.500	72X		IST	405741N 284839E		120/500	120/500		500	17	40	
		7067	ILS/DME	17	109.100	28X		ISSY	TRD 405900N 284809E TRD 405848N 285017E	355	25/62.5	25/100		100	27	27	
ISTANBUL/ATATURK		7068	ILS/DME	5	110.300	40X		IIST	405801N 284856E	239	25/62.5	25/100		100	27	27	
		7069	ILS/DME	17L	111.100	48X		IISB	TRD 405805N 284834E 405938N 284826E	358	25/62.5	25/100		100	27	27	
		7070	ILS/DME	35R	111.300	50X		IYES	TRD 405854N 284839E 405819N 284829E	178	25/62.5	25/100		100	27	27	
		7071	ILS/DME	35L	111.500	52X		ISEF	TRD 405954N 284822E 405919N 284823E	178	25/62.5	25/100		100	27	27	
		7072	ILS/DME	23	111.900	56X		IATA	TRD 405754N 284831E 405832N 285002E	59	25/62.5	25/100		100	27	27	
		3152	VOR/DME		113.700	84X		IMR	381903N 270026E		100/500	100/500		500	17	37	
		3157	TAC			83X		CIG	382942N 270033E		(blank)	200/600		600	40	40	
KAHRAMANMARAS		7117	ILS/DME	17	108.150	18Y		ICIG	TRD 382944N 270042E 383125N 270027E	356	25/62.5	25/100		100	27	27	
		4238	VOR/DME		113.900	86X		KAR	403324N 430614E		100/500	100/500		500	17	37	
KARS		3160	VOR/DME		113.800	85X		KAR	403300N 411209E		(blank)	100/400		400	40	40	
		5309	TAC			80X		KAR	TRD 403413N 430812E 403321N 430601E	244	25/62.5	25/100		100	27	27	
KASTAMONU		7174	ILS/DME	18	108.500	22X		IKAS	TRD 411810N 334739E 411918N 334754E	6	25/62.5	25/100		100	27	27	
		28956	VOR/DME		115.200	99X		KST	412101N 334600E		25/100	25/100		100	15	27	DHMI
KONYA		3164	TAC			88X		KON	375950N 323345E		(blank)	100/500		500	40	40	
		4996	VOR/DME		111.200	49X		KNY	375949N 323333E		60/250	60/250		250	17	37	
KUTAHYA		7084	ILS/DME	01L	108.900	26X		IKNY	TRD 375952N 323409E 375906N 323314E	197	25/62.5	25/100		100	27	27	
		5612	TAC			81X		KUT	392547N 300046E		(blank)	88/250		250	26	26	
		6903	VOR/DME		112.300	70X		KTH	390624N 300805E		25/100	25/100		100	17	27	
		7167	ILS/DME	13	108.100	18X		IZFR	TRD 390605N 300843E 390704N 300709E	311	25/62.5	25/100		100	27	27	
MALATYA		7168	ILS/DME	31	111.300	50X		IZFE	TRD 390718N 300655E 390613N 300823E	131	25/62.5	25/100		100	27	27	
		7087	ILS/DME	21L	109.900	36X		IMLY	TRD 382511N 380444E 382648N 380553E	32	25/62.5	25/100		100	27	27	
		3608	TAC			82X		ERH	382630N 380510E		(blank)	200/600		600	40	40	
		4900	VOR/DME		112.000	57X		ERH	382745N 380644E		80/400	80/400		400	17	37	
MARDIN		4593	VOR/DME		116.900	116X		MRD	TRD 371340N 403819E 371404N 403833E		100/400	100/400		400	17	37	
		28145	ILS/DME	3	108.900	26X		IMRD	TRD 371257N 403734E 405028N 383236E	217	25/62.5	25/100		100	37	DHMI	
MERZIFON		27251	ILS/DME	05R	110.500	42X		IMRI	TRD 404928N 383037E 371520N 273847E	235	25/62.5	65/100		100	27	27	
		4232	ILS/DME	28R	108.700	24X		IGML	TRD 371457N 274045E 371508N 274006E	107	25/62.5	25/100		100	25	25	
MILAS/BODURUM		4244	VOR/DME		116.700	114X		BDR	TRD 371507N 274005E 371507N 273902E		100/500	100/500		500	17	37	
		5611	TAC			69X		BOD	TRD 371447N 274106E 371520N 273910E		(blank)	40/250		250		37	
		9023	ILS/DME	10L	109.300	30X		IBDR	371520N 273910E	287	25/62.5	50/250		250	27	27	
MUS		3170	VOR/DME		111.200	49X		MUS	384458N 413939E		100/400	100/400		400	17	37	
		3171	TAC			111X		MUS	384508N 413922E		(blank)	100/400		400	40	40	
NEVSEHIR/KAPADOKYA		7089	ILS/DME	29R	108.500	22X		IMUS	TRD 384435N 414037E 384601N 413916E	116	25/62.5	25/100		100	27	27	
		4326	VOR/DME		115.300	100X		TZK	TRD 384601N 413916E 384601N 413916E		50/250	50/250		250	17	37	
		7080	ILS/DME	11	110.700	44X		ITZK	TRD 384553N 413939E 384648N 413922E	297	25/62.5	25/100		100	27	27	
ORDU		7325	ILS/DME	28	108.350	20Y		IOGR	TRD 405812N 380388E 405756N 380601E	102	25/62.5	25/100		100	27	27	
		4801	VOR/DME		108.800	25X		SBH	405359N 291913E		40/250	40/250		250	17	28	

COM3- List of national and international assignments in country order

CTY	Location	SAFIRE Ref	Service	Rwy Designator	VHF Channel	DME Channel	MLS Channel	Id	Co-ordinates	TRD	VHFDC	DMEDOC	MLSDOC	MaxFL	VHF EIRP	DME EIRP	Remarks
	SABIHA GOKCEN	7091	ILS/DME	24	110.900	46X		ISB	TRD 405330N 291725E 405407N 291921E	64	25/62.5	25/100		100		27	
	SAMSUN/CARSAMBA	3350	VOR/DME		112.800	75X		CRM	411556N 363328E TRD 411437N 363456E			100/500	100/500	500	17	37	
	SIIRT	4337	ILS/DME	13	110.100	38X		CRM	411546N 363328E	314	25/62.5	25/100		100		27	
		3176	VOR/DME		114.300	90X		SRT	375438N 415255E			150/500	150/500	500	17	37	
		7166	DME			59X		SIR	375836N 415012E TRD 375858N 415108E			(blank)	25/100	100		27	
	SINOP	7329	ILS/DME	6	108.550	22Y		ISTR	375829N 414951E	248	25/62.5	25/100		100		27	
		3178	VOR/DME		114.000	87X		SIN	420120N 360437E TRD 420644N 360339E			100/400	100/400	400	17	37	
	SIRNAK	6183	ILS/DME	23	108.900	26X		ISDP	420117N 360448E	54	25/62.5	25/100		100		37	
		6901	VOR/DME		112.300	70X		RNA	372154N 420341E TRD 372129N 420432E			25/100	25/100	100	17	27	
	SIVAS	7322	ILS/DME	11	108.350	20Y		ISNK	372213N 420247E	296	25/62.5	25/100		100		27	
		3179	VOR/DME		114.200	89X		SIV	394128N 365336E TRD 394958N 365441E			100/400	100/400	400	17	40	
	SIVRIHISAR	7096	ILS/DME	1	109.100	28X		ISVS	394801N 365357E	198	25/62.5	25/100		100		27	
	TOKAT	3181	TAC			29X		SYT	392645N 312227E			(blank)	200/600	600		40	
		4416	VOR/DME		115.000	87X		TKT	401854N 362239E			100/500	100/500	500	17	37	
	TOPEL	7328	ILS/DME	22	108.550	22Y		ITKA	401800N 362100E			25/62.5	25/100	100		27	
		3185	TAC			86X											
	TRABZON	3348	ILS/DME	11	109.100	28X		ITBZ	TRD 405923N 394834E 405978N 394645E	292	25/62.5	25/100		100		27	
	USAK	4320	VOR/DME		108.000	17X		USK	384101N 292831E			80/250	80/250	250	17	37	
		6178	ILS/DME	27	111.150	48Y		IUSK	384100N 292700E			25/62.5	50/250	250		27	
	VAN	3188	VOR/DME		115.200	99X		VAN	@382758N 431931E TRD 382800N 431900E			80/500	80/500	500	17	37	TVOR
	YALOVA	7169	ILS/DME	3	108.300	20X		IVAN	382800N 431900E	218	25/62.5	25/100		100		27	
		3189	VOR/DME		117.700	124X		YAA	402830N 291227E			100/500	100/500	500	17	37	
		5523	TAC			87X		YLV	404100N 292200E			(blank)	40/250	250		37	
	YENISEHIR	3190	TAC			79X		YEN	401600N 393306E TRD 400540N 323443E			(blank)	200/600	600		40	
	ANKARA/AKINCI	7118	ILS/DME	3	109.550	32Y		IZIR	400408N 323320E	213	25/62.5	25/100		100		27	
	CUBUK	3122	VOR/DME		114.300	90X		BLK	401431N 330618E			120/500	120/500	500	17	37	
	SANLIURFA/GAP	4580	VOR/DME		115.200	70X		OKT	372728N 385047E			100/400	100/400	400	17	37	
		5271	VOR/DME		117.700	124X		URF	370538N 385041E TRD 372748N 385456E			80/400	80/400	400	17	37	
	CUKUROVA	7095	ILS/DME	4	111.900	56X		ISUR	372614N 385304E	222	25/62.5	25/100		100		27	
		7326	ILS/DME		108.350	20Y		ICKR	365200N 360300E			25/62.5	25/100	100		27	Planned
		7327	VOR/DME		108.600	22Y		ICKR	365200N 360300E			25/62.5	25/100	100		27	Planned
		27096	VOR/DME		113.700	84X		CKR	365200N 360300E			25/100	25/100	100	17	27	
	CENGIZ-TOPEL	4598	VOR/DME		117.400	121X		CTP	404415N 300417E TRD 404412N 300348E			80/250	80/250	250	17	37	
		7324	ILS/DME	27	108.350	20Y		ICNG	404405N 300548E	96	25/62.5	25/100		100		27	
	HAKKARLI/YUKSEKOVA	6902	VOR/DME		112.100	58X		YKV	373257N 441433E			25/100	25/100	100	17	27	
		7323	ILS/DME		108.350	20Y		IIAG	373300N 441300E			25/62.5	25/100	100		27	Planned
	KAKLICIZMIR	7122	ILS/DME	17	110.150	38Y		IKLC	TRD 383001N 265844E 383142N 265839E	356	25/62.5	25/100		100		27	
	IZMIR/A.MENDERES	3154	ILS/DME	34R	110.300	40X		IMEN	TRD 381834N 270907E 381650N 270933E	167	25/62.5	25/100		100		27	
		3155	TAC			98X		MEN	381753N 270927E			(blank)	200/600	600		40	
		3156	VOR/DME		117.900	126X		MEN	381742N 270931E			160/400	160/400	400	17	37	
		4417	ILS/DME	16L	108.500	22X		IIMR	TRD 381812N 270909E 381812N 270909E	346	25/62.5	25/100		100		27	
	ETIMESGUT	3139	TAC			113X		ETI	@395727N 324029E TRD 395648N 324204E			(blank)	150/500	500		40	
		4233	ILS	11	110.500			ETI	395716N 324033E	294	25/62.5			62			
	BALIKESIR/KORFEZ	6974	ILS/DME	5	108.900	26X		IKFZ	TRD 393341N 270134E 393249N 265954E	234	25/62.5	25/100		100		27	
	SELCUK	6904	VOR/DME		115.200	79X		SEL	375656N 272001E			25/100	25/100	100	17	27	
	MANISA/KULA	5987	VOR/DME		112.050	57Y		DEN	383441N 283610E 392600N 323000E			50/250	50/250	250	17	27	
	HAYMANA	4791	VOR/DME		111.800	55X		HAY	392612N 323034E			40/250	40/250	250	17	37	
	ISTANBUL/BEYKOZ	4716	VOR/DME		117.300	120X		BKZ	@410737N 290634E			120/500	120/500	500	17	37	
	CAYCIJMA	4707	VOR/DME		109.600	33X		CAY	413000N 302040E			100/400	100/400	400	17	37	
	GAZIPASA	4604	VOR/DME		114.200	89X		GZP	361816N 321751E			60/400	60/400	400	17	37	
		73405	VOR/DME		116.250	109Y		GZV	361756N 321957E			60/400	60/400	400	17	37	DHMI
	BALIKESIR	4571	VOR/DME		112.250	59Y		BRI	393754N 275644E			100/250	60/250	250	17	37	
	ISTANBUL/B.CEKMECE	4314	VOR/DME		114.600	93X		CEK	410248N 285143E			30/250	30/250	250	17	37	
	BALIKESIR/EDREMIT	4246	VOR/DME		109.400	31X		EDR	393303N 270018E			30/250	30/250	250	15	27	
	TEKIRDAG	3183	VOR/DME		116.300	110X		EKI	405704N 272534E			80/500	80/500	500	17	37	
	MUT	3173	VOR/DME		112.300	70X		MUT	365147N 331731E			150/500	150/500	500	17	37	
	INEBOLU	3142	VOR/DME		115.300	80X		INB	415708N 324232E			150/500	150/500	500	17	37	
	GEMEREK	3141	VOR/DME		115.100	98X		GEM	@390914N 360143E			150/500	150/500	500	17	37	
	ELAZIG/HARPUT	3129	VOR/DME		114.700	94X		EZS	384230N 391327E			100/500	100/500	500	17	37	
	BIGA	3115	VOR/DME		116.900	116X		BIG	401704N 272156E			80/500	25/100	500	17	17	
	ANKARA/BAGLILU	3096	VOR/DME		113.100	78X		BAG	400412N 324838E			150/500	150/500	500	17	37	
	ORDU/GIRESUN	27097	VOR/DME		114.400	91X		ORI	405752N 380510E TRD 374422N 382852E			25/100	25/100	100	17	27	
	ADIYAMAN	28146	ILS/DME	4	110.500	42X		IADY	374351N 382808E TRD 410002N 394819E	229	25/62.5	25/100		100		37	
	TRABZON/TRABZON	30175	ILS/DME	29	108.900	26X		ITRB	405926N 394815E	112	25/62.5	25/100		100		27	DHMI
	CANAKKALE/CANAKKALE	31985	TAC			76X		CNK	400828N 262600E			(blank)	40/180	180		26	
	GAZIANTEP	35485	TAC			15X		GKB	370700N 373800E TRD 413364N 380511E			(blank)	80/350	350		40	
	ZONGULDAK/CAYCIJMA	42045	ILS/DME	36	109.750	34Y		IZCA	413000N 320510E	186	25/62.5	25/100		100	27	27	DHMI
	ORDU/GIRESUN	42008	ILS/DME	10	110.350	40Y		IOGN	TRD 405749N 380623E	282	25/62.5	25/100		100	27	27	DHMI
		50713	DME			36Y		GRS	405752N 380540E			(blank)	25/100	100	27	27	DHMI
	ISTANBUL/SABIHA GOKCEN	42007	VOR/DME		115.850	105Y		ISGN	405648N 292040E			40/250	40/250	250	17	28	DHMI
		42006	ILS/DME	24	109.350	30Y		ISGB	TRD 405302N 291757E	60	25/62.5	25/100		100	27	27	DHMI
		42005	ILS/DME	6	110.150</												



COM3- List of national and international assignments in country order

CTY	Location	SAFIRE Ref	Service	Rwy Designator	VHF Channel	DME Channel	MLS Channel	Id	Co-ordinates	TRD	VHFDOC	DMEDEC	MLSDOC	MaxFL	VHF EIRP	DME EIRP	Remarks		
ISTANBUL/YENI HAVALIMAN		39417	VOR/DME		114.050	87Y		UHR	411526N 285134E		60/500	60/500		500	23	37			
		39416	VOR/DME		113.350	80Y		UHP	411758N 284747E		60/500	60/500		500	23	37	DHMI		
		39415	VOR/DME		111.650	53Y		UHO	411813N 284640E		60/500	60/500		500	23	37	DHMI		
		39414	VOR/DME		109.850	35Y		UHN	411813N 284523E		60/500	60/500		500	23	37	DHMI		
		39413	VOR/DME		109.250	19Y		UHM	411834N 284332E		60/500	60/500		500	23	37	DHMI		
		39412	VOR/DME		110.000	37X		UHL	411844N 284227E		60/500	60/500		500	23	37	DHMI		
		56587	VOR/DME		115.650	103Y		CSM	381443N 282532E		25/100	25/100		100	17	27	DHMI		
		56586	VOR/DME		110.450	41Y		ART	411040N 405118E		25/100	25/100		100	17	27	DHMI		
		70985	ILS/DME	7	110.900	46X		ART	TRD 411038N 404936E	250	25/62.5	25/100		100	17	27	DHMI		
		64645	TAC				88Y		KLC	383117N 265845E Alt=0		(blank)	200/250		250		35		
		ANTALYA/ANTALYA HAVALIMANI	69025	VOR/DME		116.150	108Y		LRA	365504N 304840E		40/250	40/250		250	17	37	DHMI	
		ANKARA/ANKOPRL TRABZON/TRABZON HAVALIMANI	67345	VOR/DME		114.900	96X		ANK	395711N 324941E		25/100	25/100		100	17	27	DHMI	
		ISTANBUL/ISTANBUL HAVALIMANI	67305	VOR/DME		114.900	96X		TBN	410000N 394800E		100/500	100/500		500	17	37	DHMI	
		UKR	CHERNIVTSI	4488	ILS	15	109.500			ICN	TRD 481451N 255921E								
				4489	ILS	33	110.300			ICR	481509N 255900E								
				4248	VOR/DME		112.500	72X		DNP	482135N 300611E		200/500	200/500		500	20	37	
				4490	ILS	8	109.500			IDP	TRD 482126N 300738E								
				4491	ILS	26	110.300			IDR	482122N 300659E								
4493	ILS			26	111.700			IDO	TRD 480359N 374101E										
4494	ILS			10	108.700			IVV	TRD 485249N 244235E										
4495	ILS			28	109.300			IVF	TRD 485313N 244021E										
5685	VOR/DME				114.200	89X		IVF	TRD 485315N 243943E	104	25/62.5								
4974	DME					110X		KRH	485259N 244150E										
KERCH KHARKIV		5684	VOR/DME		116.500	112X		KHR	451836N 362635E		(blank)	200/50		50		37			
		29954	ILS/DME	25	111.700	54X		IHA	495544N 361726E		150/500	160/500		500	20	37			
		29953	ILS/DME	7	111.100	48X		IHR	TRD 495537N 361640E Alt=0	83	25/62.5	25/100		100		29			
		4498	ILS	3	110.100			IHE	TRD 495543N 361842E										
		56985	VOR/DME		116.250	109Y		KHE	TRD 464128N 323114E										
		7267	VOR/DME		114.900	96X		KVH	464011N 322925E										
		4502	ILS	36	108.300			IRO	464033N 323007E	213	25/62.5	160/500	200/500		500	20	37	DVOR	
		4503	ILS	18	110.100			IRG	483240N 321731E										
		4973	DME			107X		KVR	TRD 480350N 331239E										
		KYIV/ANTONOV		5681	ILS	33	108.700			IGO	TRD 480359N 331201E	185	25/62.5						
5682	ILS			15	111.900			ILC	TRD 480130N 331219E										
5687	VOR/DME				115.500	102X		LIV	TRD 480304N 331244E										
7265	ILS/DME			13	109.500	32X		ILO	TRD 503714N 301043E										
7266	ILS/DME			31	110.300	40X		ILV	TRD 503529N 301207E	154	25/62.5								
4509	ILS			4	110.700			INI	TRD 503508N 301218E										
70285	VOR/DME				116.400	111X		MKL	TRD 503657N 301104E	334	25/62.5								
68947	VOR/DME				116.400	111X		MLK	494843N 235705E										
67847	ILS/DME			4	109.300	30X		INI	TRD 494750N 235838E										
RIVNE				28931	DME			93Y		RVN	TRD 494854N 235653E	316	25/62.5	25/100		100		29	
		4243	VOR/DME		116.600	113X		SMF	TRD 494921N 235621E										
		4521	ILS	31	110.300			IVN	TRD 494805N 235806E	136	25/62.5	25/100		100		29			
		4522	ILS	13	111.100			IWI	TRD 470414N 315630E										
		3666	DME			86X		VNN	TRD 470313N 315430E	231	25/62.5								
		66707	VOR/DME		115.700	104X		VNN	TRD 470409N 315621E										
		66706	ILS/DME	31	110.300	40X		IVN	TRD 470409N 315621E										
		66705	ILS/DME	13	111.100	48X		IWI	TRD 470409N 315612E	51	25/62.5	160/500	200/500		500	17	37	DVOR	
		4523	ILS	02R	110.300			IZA	TRD 470253N 315406E	231	25/62.5	25/100		100		29			
		4524	ILS/DME	20L	111.500	52X		IZP	TRD 475308N 351936E										
YAHOTYN		69247	ILS/DME	02R	109.300	30X		IZA	TRD 491416N 283725E	138	25/62.5								
		6935	DME			117X		YHT	TRD 491350N 283749E	318	25/62.5								
		6934	DME			77X		STB	TRD 491458N 283627E	138	25/62.5	25/100		100		29			
		6932	DME			22X		KSN	TRD 491525N 283538E	138	25/62.5	25/100		100		29			
		6931	VOR/DME		113.300	80X		SLV	TRD 491458N 283627E	318	25/62.5	25/100		100		29			
		6845	ILS/DME	26	108.300	20X		IKV	TRD 475308N 351936E										
		69247	ILS/DME	02R	109.300	30X		IZA	TRD 475111N 361823E										
		6935	DME			117X		YHT	TRD 475231N 351903E	23	25/62.5	25/100		100		29			
		6934	DME			77X		STB	TRD 475302N 351932E										
		6932	DME			22X		KSN	TRD 475231N 351903E	202	25/62.5	25/100		100		29			
SLOVIVKA		6931	VOR/DME		113.300	80X		SLV	TRD 501554N 314740E		(blank)	160/500		500		37			
		6931	VOR/DME		113.300	80X		SLV	501554N 314740E		(blank)	160/500		500		37			
KYIV/ZHULYANY		6845	ILS/DME	26	108.300	20X		IKV	TRD 502403N 302547E		(blank)	160/500		500		37			
		6845	ILS/DME	26	108.300	20X		IKV	502404N 302744E Alt=0	86	25/62.5	25/100		100		29			

COM3- List of national and international assignments in country order

CTY	Location	SAFIRE Ref	Service	Rwy Designator	VHF Channel	DME Channel	MLS Channel	Id	Co-ordinates	TRD	VHFDOC	DMEDOC	MLSDOC	MaxFL	VHF EIRP	DME EIRP	Remarks
	KYIV/ZHULYANY	6846	ILS/DME	8	111.700	54X		IKI	TRD 502409N 302811E 502400N 302827E Alt=0	266	25/62.5	25/100		100		29	
	BAKHMACH	67865	VOR/DME		113.950	80Y		KVZ	502413N 302659E		160/500	200/500		500	17	37	
		33667	DME			114X		BAH	510354N 325312E		(blank)	160/500		500		37	
	KYIV/BORISPOL'	3195	ILS	18R	108.900			IKB	TRD 501844N 305243E 502058N 305244E	3	25/62.5			62			
		3197	ILS	36R	109.700			INO	TRD 502033N 305435E 501939N 305408E	183	25/62.5			62			
		3199	ILS	36L	110.500			IKE	TRD 502144N 305258E 501925N 305237E	183	25/62.5			62			
		3200	ILS	18L	111.300			IBI	TRD 501859N 305412E 502128N 305416E	3	25/62.5			62			
		4986	VOR/DME		115.900	106X		BRP	501708N 305404E		150/500	160/500		500	20	37	
	ODESSA	73927	ILS/DME	18L	111.300	50X		IBI	TRD 501858N 305411E	3	25/62.5	25/100		100	20		
		4247	VOR/DME		113.950	86Y		ODS	462549N 304015E		200/500	200/500		500	20	37	
		59825	VOR/DME		114.350	90Y		ODA	462534N 304011E		160/500	200/500		500	20	37	DVOR
	ODESSA/TSENTRALNY	3212	ILS	16	108.300			IOD	TRD 462423N 304107E 462609N 304012E	343	25/62.5			62			
		3214	ILS	34	110.300			IOE	TRD 462648N 304004E 462800N 304042E	183	25/62.5			62			
		69985	ILS/DME	34	111.100	48X		IOE	Alt=55	339	25/62.5	25/100		100		29	
		68966	ILS/DME	16	109.100	28X		IOD	TRD 462435N 304052E	159	25/62.5	25/100		100		29	
		68965	ILS/DME	34	111.100	48X		ODA	Alt=55	339	25/62.5	25/100		100		29	
	SIMFEROPOL'	4514	ILS	1	109.300			ISN	TRD 450500N 335900E	194	25/62.5			62			
		4516	ILS	19	111.100			ISF	TRD 450200N 335800E	14	25/62.5			62			
	KHARKIV/SOKOL'NYKY	29652	ILS	2	109.100			IVZ	TRD 500100N 361501E	208	25/62.5			62			
	LYKHACHEVE	28935	DME			35X		LIH	492206N 361229E		(blank)	160/500		500		37	
	TERNOPIL'	28930	DME			99Y		TER	493122N 254154E		(blank)	160/500		500		37	
	UZHHOROD	59905	DME			103Y		UZH	483758N 221538E		(blank)	160/500		500		37	
	KYIV/ANTONOV-2	73026	ILS/DME	33	108.150	18Y		IGA	TRD 503713N 301042E	328	25/62.5	25/100		100		29	
	USPENIVKA	72950	DME			98X		SPE	460931N 295209E		(blank)	160/500		500		37	
	RUDKIVTYSI	72949	DME			87Y		RDK	492650N 241224E		(blank)	100/500		500		30	
	CHERLYANY	72948	DME			47X		CHR	494353N 234101E		(blank)	160/500		500		37	
	MALYNIVKA	72907	DME			103X		MLY	465530N 302339E		(blank)	160/500		500		37	
	PECHENIGY	72906	DME			85X		PCH	495416N 365715E		(blank)	160/500		500		37	
UNK	PRISTINA	28316	VOR/DME		111.050	47Y		BKPR	423331N 210214E		110/400	110/400		400	17	37	
	FERGANA	68605	ILS/DME	35	108.500	22X		IRI	TRD 423331N 210214E	35	25/62.5	40/180		180		20	
UZB	URGENCH	5597	ILS	31	109.700			IZU	402000N 714400E		25/62.5			62			
	TAMDYBULAK	5596	VOR/DME		114.200	89X		URG	413500N 603700E		200/400	200/400		400	17	50	
	TASHKENT	5595	VOR/DME		114.000	87X		TMD	414500N 643600E		200/400	200/400		400	17	50	
		3614	ILS/DME	26R	108.800	22X		IFD	411500N 691600E		25/62.5	25/100		100		29	
		5592	ILS/DME	08L	110.500	42X		ING	411500N 691800E		25/62.5	25/100		100		29	
		5593	ILS	08R	111.700			IZV	411500N 691800E		25/62.5			62			
		5594	VOR/DME		113.200	79X		TKT	411500N 691700E		200/400	200/400		400	17	50	
	ANDIZHAN	5591	ILS	4	110.600			IAN	404400N 721800E		25/62.5			62			
	TERMEZ	3620	VOR/DME		113.400	81X		TRZ	371700N 671800E		200/400	200/400		400	17	50	
		5590	ILS	25	110.300			INO	371600N 671700E		25/62.5			62			
	NUKUS	5589	ILS	33	110.300			IZR	423000N 593600E		25/62.5			62			
	NAMANGAN	5588	ILS	29	110.100			ISA	405900N 713200E		25/62.5			62			
	SAMARKAND	5586	ILS	9	109.500			IMZ	394100N 670000E		25/62.5			62			
	KARSHI	5585	ILS	16	109.100			IJP	384700N 654600E		25/62.5			62			
	BUKHARA	4394	ILS	1	110.300			IUH	394700N 642900E		25/62.5			62			
(blank)	(blank)	(blank)	(blank)	(blank)	(blank)	(blank)	(blank)	(blank)	(blank)	(blank)	(blank)	(blank)	(blank)	(blank)	(blank)	(blank)	(blank)

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