



*International Civil Aviation Organization*

**NINTH MEETING OF THE ASIA/PACIFIC OPMET MANAGEMENT  
TASK FORCE (OPMET/M TF/9)**

Bangkok, Thailand, 21 – 23 March 2011

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**Agenda Item 4: OPMET Monitoring and Quality control procedures**

**RODB TOKYO PERFORMANCE INDICES FOR METAR AND TAF**

(Presented by Japan)

**SUMMARY**

This paper shows the Performance Indices (PIs) of METAR (SA) and TAF (FT) reports received by RODB Tokyo in January 2011.

This paper relates to

**Strategic Objectives:**

A: Safety – Enhance global civil aviation safety

D: Efficiency – Enhance the efficiency of aviation operations

**Global Plan Initiatives:**

GPI-19 Meteorological Systems

**1. INTRODUCTION**

1.1 RODB Tokyo carried out the OPMET monitoring of incoming METARs (SA) and TAFs (FT) for the periods of 1-31 January 2011. The performance indices (PIs) are presented in the form agreed by the third RODB coordination meeting.

**2. RESULT OF MONITORING**

2.1 RODB Tokyo carried out the OPMET monitoring of incoming METARs (SA) and TAFs (FT) for the periods of 1-31 January 2011. The performance indices (PIs) are presented in the form agreed by the third RODB coordination meeting.

**3. ACTION BY THE MEETING**

3.1 The meeting is invited to discuss the PIs presented.

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**Monitoring Results of PIs Measurements**

	1-31 January 2011		
	METAR (SA)		
Bulletin/Aerodrome	Availability	Compliance	Regularity
<b>AE31 VTBB</b>			
VDPP	1.000	0.726	0.839
VDSR	1.000	0.683	0.774
VLVT	1.000	0.504	0.968
VTBD	1.000	1.001	0.935
VTBS	1.000	0.997	0.645
VTBU	1.000	0.942	0.613
VTCC	1.000	1.000	0.806
VTSP	1.000	0.988	0.806
VTSS	1.000	1.030	0.774
VVDN	1.000	0.992	0.710
VVNB	1.000	1.000	0.581
VVPB	1.000	1.035	0.935
VVTS	1.000	1.009	0.903
VYMD	0.935	0.290	0.903
VYYY	0.903	0.253	0.839
<b>AU31 YBBN</b>			
YBAS	1.000	0.988	0.903
YBBN	1.000	0.969	0.774
YBCG	1.000	0.972	0.903
YBCS	1.000	1.001	0.806
YBTL	1.000	1.000	1.000
YCFS	1.000	0.919	0.968
YHID	1.000	0.977	0.839
YMML	1.000	0.977	0.968
YPAD	1.000	1.007	1.000

YPCC	1.000	0.968	0.968
YPDN	1.000	0.973	0.806
YPJT	1.000	0.987	0.839
YPKU	0.968	0.859	0.774
YPLM	0.968	0.921	0.903
YPPH	1.000	0.965	0.968
YPTN	1.000	0.972	0.968
YPXM	1.000	0.718	0.581
YSCB	1.000	0.977	0.903
YSSY	1.000	0.960	0.903
YSTW	1.000	0.995	1.000
AU32 YBBN			
YAMB	0.903	0.825	0.710
YBHM	1.000	0.984	0.871
YBMA	1.000	0.984	1.000
YBRK	1.000	0.957	0.903
YBRM	1.000	0.964	0.710
YCIN	1.000	0.996	0.903
YFRT	1.000	0.985	0.742
YGEL	1.000	0.964	0.806
YMAV	1.000	0.969	0.806
YMHB	1.000	0.960	1.000
YMLT	1.000	0.984	0.935
YPEA	1.000	0.965	0.839
YPGV	1.000	0.972	0.839
YPKG	1.000	0.974	0.871
YPPD	1.000	0.980	0.903
YPWR	1.000	0.980	0.903
YSDU	1.000	0.991	1.000
YSNF	1.000	0.897	0.742
YSRI	1.000	0.948	0.806
YWLM	1.000	0.981	0.903

BN31 OBBI			
OBBI	1.000	1.023	0.806
OEDF	0.968	0.915	0.548
OEDR	0.968	0.914	0.581
OKBK	1.000	1.011	1.000
OTBD	1.000	1.012	0.839
BN32 OBBI			
OMAA	1.000	1.011	0.806
OMAD	1.000	0.993	0.323
OMAL	1.000	1.003	0.903
OMDB	1.000	0.995	0.677
OMDW	1.000	0.977	0.742
OMFJ	1.000	0.996	0.742
OMRK	1.000	0.985	0.839
OMSJ	1.000	1.004	0.871
OOMS	1.000	1.000	1.000
OOSA	1.000	0.913	0.742
CI31 ZBBB			
ZBAA	1.000	1.000	1.000
ZBSJ	1.000	1.000	1.000
ZBTJ	1.000	1.000	1.000
ZBYN	1.000	0.999	0.968
ZGGG	1.000	0.999	0.968
ZSHC	1.000	0.997	0.935
ZSPD	1.000	1.000	1.000
ZSSS	1.000	1.000	1.000
ZWSH	1.000	0.977	0.935
ZWWW	1.000	0.997	0.935
ZYTL	1.000	0.999	1.000

ZYTX	1.000	0.999	1.000
CI32 ZBBB			
ZGKL	1.000	0.989	0.839
ZGNN	1.000	0.997	0.968
ZGOW	1.000	0.988	1.000
ZGSZ	1.000	0.999	0.968
ZLXY	1.000	0.997	0.935
ZMUB	1.000	0.966	0.839
ZPPP	1.000	0.997	0.903
ZSAM	1.000	0.999	1.000
ZSFZ	1.000	0.995	0.871
ZSNB	1.000	0.996	0.903
ZSQD	1.000	0.997	0.935
ZUUU	1.000	0.997	0.871
CI41 ZBBB			
ZBHH	1.000	1.000	1.000
ZGHA	1.000	0.962	1.000
ZHCC	1.000	0.996	0.903
ZHHH	1.000	0.997	0.935
ZJHK	1.000	0.993	1.000
ZJSY	1.000	1.000	0.903
ZLLL	1.000	0.997	0.903
ZSNJ	1.000	0.997	0.806
ZSOF	1.000	1.000	1.000
ZUCK	1.000	0.999	1.000
ZYCC	1.000	0.997	0.935
ZYHB	1.000	0.997	0.903
EG31 HECA			
HECA	1.000	0.993	0.968

EG32 HECA			
HEAX	1.000	0.972	0.935
HEBA	NA	0.000	NA
HEBL	1.000	0.962	0.935
HEGN	1.000	0.966	0.903
HELX	1.000	0.950	0.903
HEMA	1.000	0.605	0.839
HEMM	1.000	0.954	0.871
HEPS	1.000	0.970	0.935
HESC	1.000	0.940	0.935
HESH	1.000	0.970	0.903
HESN	1.000	0.970	0.935
HETB	1.000	0.821	0.806
HK31 VHHH			
RCKH	1.000	0.993	0.839
RCSS	1.000	0.996	0.903
RCTP	1.000	0.995	0.871
RPLB	0.806	0.923	0.935
RPLI	1.000	0.165	0.742
RPLL	0.258	0.995	0.774
RPMD	1.000	0.017	1.000
RPMZ	1.000	0.633	0.968
RPVM	1.000	0.972	0.645
VHHH	1.000	0.999	0.968
VMMC	1.000	0.997	0.935
ID31 WIII			
WAAA	1.000	1.000	0.968
WABB	0.581	0.364	0.581
WADD	1.000	0.944	1.000
WARR	1.000	0.875	0.742

WIDD	0.452	0.155	1.000
WIHH	1.000	0.247	1.000
WIII	1.000	0.905	0.710
WIMM	1.000	0.965	0.968
ID32 WIII			
WADA	1.000	0.437	1.000
WALL	0.839	0.315	0.774
WAMM	0.935	0.789	0.903
WAOO	1.000	0.652	0.871
WIBB	1.000	0.489	0.742
WIKN	NA	0.000	NA
WIOO	1.000	0.632	0.710
WIPP	1.000	0.636	1.000
WIPT	1.000	0.706	1.000
ID33 WIII			
WABP	NA	0.000	NA
WAJJ	NA	0.000	NA
WAKK	NA	0.000	NA
WALR	NA	0.000	NA
WAPP	0.581	0.246	0.581
WARS	1.000	0.478	0.710
WATT	0.968	0.474	0.935
WIAT	NA	0.000	NA
IN31 VABB			
VAAH	1.000	0.907	0.742
VABB	1.000	0.871	0.871
VANP	1.000	0.812	0.645
VOHS	1.000	0.864	0.935
VOHY	1.000	0.513	0.806
VOMM	1.000	0.879	0.710

VOTR	1.000	0.829	0.871
VOTV	1.000	0.000	0.000
IN32 VIDP			
VIAR	1.000	0.867	0.903
VIBN	1.000	0.624	0.355
VIDP	1.000	0.884	0.710
VIJP	1.000	0.761	0.935
VILK	1.000	0.825	0.806
IN33 VECC			
VECC	1.000	0.968	0.742
VEPT	1.000	0.474	0.742
VGEG	0.935	0.372	0.742
VGZR	1.000	0.884	0.839
VNKT	1.000	0.468	1.000
IR31 OIII			
OIAW	1.000	1.184	1.000
OIFM	1.000	1.097	1.000
OIII	1.000	1.398	0.935
OIKB	1.000	1.374	0.935
OIKK	1.000	1.394	0.968
OIMM	1.000	1.606	1.000
OISS	1.000	1.899	1.000
OITT	1.000	1.929	1.000
OIZH	1.000	1.821	0.839
IR32 OIII			
OAKB	NA	0.000	NA
OAKN	NA	0.000	NA
OIAA	1.000	0.847	0.710



OIBK	1.000	0.942	0.806
OICC	0.933	0.816	0.387
OIGG	1.000	0.648	0.645
OIIE	1.000	0.996	0.774
OITR	1.000	0.958	0.774
OIYY	1.000	0.972	0.968
IR33 OIII			
OIBB	1.000	0.821	0.774
OIBP	1.000	0.620	0.968
OICK	0.806	0.239	0.452
OICS	0.935	0.464	0.806
OIHH	1.000	0.950	1.000
OINZ	1.000	0.970	1.000
OISR	0.934	0.293	0.645
OITL	1.000	0.474	0.806
OIZC	1.000	0.778	1.000
IR34 OIII			
OIAG	1.000	0.569	0.935
OIAM	1.000	0.964	0.871
OICI	1.000	0.940	0.871
OIKQ	1.000	0.761	0.774
OINN	1.000	0.970	0.516
OINR	1.000	0.953	0.613
OISL	1.000	0.753	0.484
OISY	1.000	0.935	0.742
OITZ	1.000	0.488	0.710
IR35 OIII			
OIAD	0.968	0.390	0.839
OIBJ	1.000	0.524	0.677
OIBS	1.000	0.540	0.871

OIHR	NA	0.000	NA
OIKM	0.290	0.031	1.000
OIKR	1.000	0.765	0.387
OING	1.000	0.938	0.871
OIZB	1.000	0.805	0.387
OIZI	1.000	0.817	0.161
IR36 OIII			
OIBA	1.000	0.522	0.806
OIBV	1.000	0.368	0.903
OIFS	1.000	0.913	0.710
OIIP	1.000	0.597	0.968
OIMB	1.000	0.925	0.516
OIMN	1.000	0.435	0.484
OIMS	0.581	0.090	0.581
OIMT	1.000	0.890	0.548
OIZJ	1.000	0.755	0.742
IR37 OIII			
OIBL	1.000	0.741	0.742
OIBQ	1.000	0.538	0.871
OIIK	1.000	0.821	0.742
OIMC	1.000	0.437	0.484
OIMD	1.000	0.441	0.613
OIMQ	1.000	0.441	0.613
OITK	0.226	0.017	1.000
OITM	1.000	0.964	0.645
JD31 OJAI			
OJAI	1.000	0.915	0.935
OJAM	1.000	0.937	0.774
OJAQ	1.000	0.660	0.677

JP31 RJTD			
RJAA	1.000	0.999	0.999
RJBB	1.000	1.000	1.000
RJGG	1.000	1.000	1.000
RJOO	1.000	0.667	0.667
RJTT	1.000	0.999	0.999
ROAH	1.000	1.000	1.000
JP32 RJTD			
RJCC	1.000	1.000	1.000
RJCH	1.000	0.583	0.583
RJFF	1.000	1.000	1.000
RJFK	1.000	0.667	0.667
RJFO	1.000	0.625	0.625
RJFT	1.000	0.624	0.624
RJFU	1.000	0.625	0.625
RJOA	1.000	0.625	0.625
RJOB	1.000	0.625	0.625
RJOT	1.000	0.625	0.625
RJSN	1.000	0.581	0.581
RJSS	1.000	0.667	0.667
JP38 RJTD			
RJAH	1.000	1.000	1.000
RJCB	1.000	0.542	0.542
RJCK	1.000	0.583	0.583
RJCM	1.000	0.542	0.542
RJEC	1.000	0.583	0.583
RJFM	1.000	0.622	0.622
RJFR	1.000	1.000	1.000
RJNK	1.000	0.997	0.997
RJNS	1.000	0.458	0.458

RJNT	1.000	0.625	0.625
RJOC	1.000	0.583	0.583
RJOH	1.000	1.000	1.000
RJOK	1.000	0.583	0.583
RJOM	1.000	0.625	0.625
RJSA	1.000	0.625	0.625
RJSF	1.000	0.542	0.542
RJSK	1.000	0.625	0.625
ROIG	NA	0.000	NA
KO31 RKSI			
RKJB			
RKSI	1.000	1.000	0.968
RKNY	1.000	1.000	0.968
RKPC	1.000	1.000	0.968
RKPK	1.000	0.992	0.968
RKSI	1.000	1.000	0.935
RKSS	1.000	1.001	0.968
RKTN	1.000	0.987	1.000
RKTU	1.000	0.988	1.000
ME31 OLBA			
OJAI	1.000	0.926	0.871
OJAM	1.000	0.958	0.935
OJAQ	1.000	0.669	0.581
OLBA	1.000	0.993	0.968
OSAP	1.000	0.892	0.419
OSDI	1.000	0.905	0.419
OSLK	1.000	0.831	0.258
MS31 WMKK			
WBGG	1.000	0.987	0.839

WBKK	1.000	0.973	0.806
WBSB	1.000	0.860	0.871
WMKK	1.000	0.992	0.742
WMKP	1.000	0.974	0.935
WSSL	1.000	0.776	0.774
WSSS	1.000	0.997	0.871
MS38 WMKK			
WBGB	1.000	0.984	0.839
WBGR	1.000	0.973	0.839
WBGS	1.000	0.980	0.677
WBKL	1.000	0.804	0.871
WBKS	1.000	0.976	0.968
WBKW	1.000	0.977	1.000
WMKD	1.000	0.978	0.871
WMKL	1.000	0.984	0.903
WMKM	1.000	0.972	0.839
NG31 YBBN			
AGGH	1.000	0.805	0.806
AYGN	0.097	0.004	1.000
AYMH	0.610	0.062	1.000
AYMO	0.871	0.070	1.000
AYNZ	0.032	0.001	0.000
AYPY	0.968	0.517	0.903
AYVN	0.548	0.042	1.000
AYWK	0.742	0.056	1.000
NZ31 NZKL			
NZAA	1.000	0.909	0.903
NZCH	1.000	0.930	0.710
NZWN	1.000	0.929	0.903

PK31 OPKC			
OPGD	NA	0.000	NA
OPKC	1.000	0.829	0.774
OPLA	0.935	0.840	0.871
OPNH	0.935	0.770	0.806
OPPS	0.935	0.793	0.710
OPRN	0.935	0.868	0.710
OPSK	0.935	0.617	1.000
PS31 NFFN			
NCRG	1.000	0.919	0.839
NFFN	0.710	0.175	1.000
NFFA	NA	0.000	NA
NGFU	0.968	0.696	0.516
NGTA	NA	0.000	NA
NIUE	1.000	0.758	0.774
NSFA	1.000	0.656	0.839
NSTU	1.000	0.782	0.774
NTAA	1.000	0.958	0.710
NWWW	NA	0.000	NA
PLCH	0.065	0.003	0.000
PS32 NFFN			
NFTF	1.000	0.734	0.677
NFTL	NA	0.000	NA
NFTV	NA	0.000	NA
NLWW	1.000	0.961	0.903
NSAP	NA	0.657	NA
NVSS	0.065	0.003	0.000
NVVV	0.161	0.009	1.000
SB31VCCC			

VCBI	1.000	0.995	1.000
VRMM	1.000	0.978	1.000
SD31 OEJD			
OEDF	0.968	0.922	0.613
OEDR	0.968	0.919	0.645
OEJN	0.968	0.934	0.645
OEMA	0.968	0.930	0.710
OERK	0.968	0.923	0.677
OERY	0.968	0.891	0.581
OYSN	0.935	0.886	0.742
TH31 VTBB			
VTCH	1.000	0.454	0.710
VTCL	0.903	0.075	0.581
VTGN	1.000	0.328	0.645
VTCP	1.000	0.245	1.000
VTCT	1.000	0.610	1.000
VTPH	1.000	0.489	0.935
VTPO	1.000	0.507	0.903
VTPP	1.000	0.489	0.710
TH32 VTBB			
VTSB	1.000	0.573	0.774
VTSC	1.000	0.292	0.323
VTSF	1.000	0.527	1.000
VTSG	1.000	0.517	0.806
VTSH	1.000	0.487	0.839
VTSM	1.000	0.703	0.935
VTSR	0.516	0.081	1.000
VTST	1.000	0.212	0.645
TH33 VTBB			

VTBO	1.000	0.484	0.806
VTUD	1.000	0.616	0.806
VTUI	0.774	0.171	0.774
VTUK	1.000	0.601	0.452
VTUL	0.710	0.138	0.613
VTUO	0.645	0.128	1.000
VTUQ	0.742	0.071	1.000
VTUU	1.000	0.931	0.839
VTUV	0.581	0.048	1.000
VTUW	NA	0.000	NA



	1-31 January 2011		
	TAF (FT)		
Bulletin/Aerodrome	Availability	Compliance	Regularity
AE31 VTBB			
VTBD	1.000	0.992	0.903
VTBS	1.000	0.992	0.903
VTBU	1.000	0.992	0.645
VTCC	1.000	0.992	0.968
VTCT	1.000	0.992	0.968
VTSG	1.000	0.927	1.000
VTSP	1.000	0.944	1.000
VTSS	1.000	0.992	0.774
VTUU	1.000	1.024	0.710
AE32 VTBB			
VDPP	1.000	0.879	0.742
VDSR	1.000	0.871	0.710
VGZR	1.000	0.952	0.935
VVDN	1.000	0.992	0.774
VVNB	1.000	0.976	0.645
VVPB	1.000	1.008	0.968
VVTS	1.000	0.960	0.742
VYMD	0.645	0.266	1.000
VYYY	1.000	0.823	0.968
AE33 VTBB			
VLLB	0.968	0.605	0.903
VLLN	0.742	0.347	0.742
VLPS	0.935	0.581	0.839
VLSK	0.968	0.605	0.903
VLVT	1.000	0.742	0.968

AU31 YBBN			
YBBN	1.000	0.984	0.806
YMML	1.000	0.968	0.806
YPAD	1.000	0.952	0.806
YPDN	1.000	0.992	0.774
YPPH	1.000	0.984	0.871
YSSY	1.000	1.000	0.968
AU32 YBBN			
YBAS	1.000	0.976	0.710
YBCG	1.000	0.976	0.839
YBCS	1.000	0.935	0.903
YBTL	1.000	0.960	0.677
YGEL	1.000	1.000	0.935
YMAV	1.000	0.976	0.677
YPKG	1.000	1.000	0.935
YPLM	1.000	1.000	0.968
YPTN	1.000	0.968	0.645
YSCB	1.000	0.984	0.935
AU33 YBBN			
YBRK	0.935	0.911	0.774
YBRM	1.000	1.000	1.000
YCFS	1.000	0.927	0.903
YHID	1.000	0.960	0.968
YMHB	1.000	0.952	0.903
YMLT	1.000	0.952	0.806
YPCC	1.000	1.000	1.000
YPEA	1.000	0.944	0.935
YPJT	1.000	0.976	0.839
YPPD	1.000	1.000	1.000
YPWR	1.000	0.968	0.903

YPXM	1.000	1.000	1.000
YSDU	1.000	0.911	0.935
YSNF	1.000	0.903	0.710
YSRI	1.000	0.944	0.710
YSTW	1.000	0.952	0.839
YWLM	1.000	0.919	0.677
AU34 YBBN			
YAMB	1.000	0.992	0.742
YBHM	1.000	0.944	0.806
YBMA	1.000	0.992	0.871
YPGV	1.000	0.968	0.645
YPKU	1.000	0.790	0.968
AU35 YBBN			
YCIN	1.000	0.992	0.774
YFRT	1.000	0.960	0.774
BN31 OBBI			
OBBI	1.000	1.000	1.000
OEDF	0.968	0.919	0.710
OEDR	0.968	0.895	0.677
OKBK	1.000	0.984	0.871
OTBD	1.000	0.992	0.935
BN32 OBBI			
OMAA	1.000	0.992	0.677
OMAD	1.000	0.984	0.581
OMAL	1.000	0.984	0.903
OMDB	1.000	0.992	0.581
OMDW	1.000	0.992	0.581
OMFJ	1.000	0.984	0.903
OMRK	1.000	1.000	0.613

OMSJ	1.000	0.984	0.581
OOMS	1.000	0.718	0.484
OOSA	1.000	0.734	0.516
CI31 ZBBB			
ZBAA	1.000	1.000	0.968
ZBSJ	1.000	0.984	0.903
ZBTJ	1.000	0.976	0.935
ZBYN	1.000	0.984	0.935
ZGGG	1.000	1.000	1.000
ZSHC	1.000	1.000	1.000
ZSPD	1.000	0.992	0.968
ZSSS	1.000	1.000	1.000
ZWSH	1.000	1.000	1.000
ZWWW	1.000	0.992	0.968
ZYTL	1.000	1.000	0.968
ZYTX	1.000	1.000	1.000
CI32 ZBBB			
ZGKL	1.000	0.984	0.935
ZGNN	1.000	0.992	0.968
ZGOW	1.000	1.000	1.000
ZGSZ	1.000	1.000	1.000
ZLXY	1.000	0.984	0.935
ZMUB	1.000	0.863	0.871
ZPPP	1.000	0.976	0.903
ZSAM	1.000	0.992	0.968
ZSFZ	1.000	0.992	0.968
ZSNB	1.000	0.992	0.968
ZSQD	1.000	0.992	0.968
ZUUU	1.000	0.992	0.968

CI41 ZBBB			
ZBHH	1.000	0.984	0.903
ZGHA	1.000	0.935	0.742
ZHCC	1.000	0.992	0.968
ZHHH	1.000	1.000	1.000
ZJHK	1.000	0.976	0.903
ZJSY	1.000	1.000	1.000
ZLLL	1.000	0.976	0.903
ZSNJ	1.000	0.976	0.903
ZSOF	1.000	0.992	0.968
ZUCK	1.000	0.976	0.903
ZYCC	1.000	1.000	1.000
ZYHB	1.000	1.000	1.000
EG31HECA			
HEAT	NA	0.000	NA
HEAX	1.000	0.952	0.871
HEBL	1.000	0.952	0.871
HECA	1.000	0.976	0.903
HELX	1.000	0.952	0.871
HEMA	1.000	0.952	0.871
HESN	1.000	0.952	0.871
HETB	1.000	0.944	0.839
EG32HECA			
HEAR	1.000	0.968	0.871
HEBA	1.000	0.952	0.806
HEGN	1.000	0.960	0.839
HEMM	1.000	0.960	0.839
HEPS	1.000	0.960	0.839
HESC	1.000	0.952	0.806
HESH	1.000	0.952	0.806

HK31 VHHH			
RCKH	1.000	1.000	1.000
RCSS	1.000	1.000	1.000
RCTP	1.000	1.000	1.000
RPLB	1.000	1.000	0.935
RPLI	1.000	1.000	0.935
RPLL	1.000	1.000	0.935
RPMD	1.000	1.000	0.935
RPMZ	1.000	1.000	0.839
RPVM	1.000	1.000	0.935
VHHH	1.000	1.000	1.000
VMMC	1.000	0.984	0.935
IN31 VABB			
VAAH	1.000	0.984	1.000
VABB	1.000	1.000	1.000
VANP	1.000	0.992	1.000
VECC	1.000	0.935	1.000
VEPT	1.000	0.613	1.000
VIAR	1.000	1.000	1.000
VIBN	1.000	0.960	1.000
VIDP	1.000	1.000	1.000
VIJP	1.000	1.008	1.000
VILK	1.000	0.952	1.000
IN32 VABB			
VCBI	1.000	0.976	1.000
VNKT	0.871	0.323	1.000
VOCI	1.000	1.008	0.968
VOCL	1.000	1.008	0.968
VOHS	1.000	1.008	0.968
VOHY	0.097	0.032	1.000

VOMM	1.000	0.984	0.968
VOTR	1.000	0.992	0.968
VOTV	1.000	1.008	0.968
VRMM	0.065	0.016	0.000
IR31 OIII			
OIAW	1.000	1.000	0.419
OIFM	1.000	1.000	0.419
OIII	1.000	1.000	0.419
OIKB	1.000	1.000	0.419
OIKK	1.000	1.000	0.806
OIMM	1.000	1.000	0.419
OISS	1.000	1.008	0.806
OITT	1.000	1.000	0.806
OIZH	1.000	1.000	0.774
IR32 OIII			
OIBK	1.000	1.000	0.677
OIIE	1.000	1.008	0.710
OITR	1.000	1.000	0.677
JP31 RJTD			
RJAA	1.000	1.000	1.000
RJBB	1.000	1.000	1.000
RJCH	1.000	1.000	1.000
RJOO	1.000	1.000	1.000
RJSS	1.000	1.000	1.000
RJTT	1.000	1.000	1.000
ROAH	1.000	1.000	1.000
JP32 RJTD			
RJCC	1.000	1.000	1.000

RJFF	1.000	1.000	1.000
RJFK	1.000	1.000	1.000
RJFO	1.000	1.000	0.000
RJFT	1.000	1.000	0.806
RJFU	1.000	1.000	0.903
RJGG	1.000	1.000	1.000
RJNK	1.000	1.008	0.000
RJNT	1.000	1.000	0.000
RJOA	1.000	1.000	1.000
RJOB	1.000	1.000	1.000
RJOT	1.000	1.000	1.000
RJSN	1.000	1.000	1.000
JP38 RJTD			
RJAH	1.000	1.000	1.000
RJCB	1.000	1.000	1.000
RJCK	1.000	1.000	1.000
RJCM	1.000	1.000	1.000
RJEC	1.000	1.000	1.000
RJFM	1.000	1.000	1.000
RJFR	1.000	1.000	1.000
RJNS	1.000	1.000	0.839
RJOC	1.000	1.000	0.000
RJOH	1.000	1.000	1.000
RJOK	1.000	1.000	1.000
RJOM	1.000	1.000	0.839
RJSA	1.000	1.000	1.000
RJSF	1.000	1.000	1.000
RJSK	1.000	1.000	0.968
ROIG	1.000	0.992	0.000
KO31 RKSI			



RKJB	1.000	1.000	1.000
RKNY	1.000	1.000	1.000
RKPC	1.000	1.000	1.000
RKPK	1.000	0.984	1.000
RKSI	1.000	1.000	1.000
RKSS	1.000	1.000	1.000
RKTN	1.000	0.984	1.000
RKTU	1.000	0.976	0.968
ME31OLBA			
OJAI	1.000	0.960	0.000
OJAM	1.000	0.968	0.000
OJAQ	1.000	0.960	0.000
OLBA	1.000	0.927	0.677
OSAP	1.000	0.887	0.452
OSDI	1.000	0.895	0.452
OSLK	1.000	0.879	0.452
NG31 YBBN			
AGGH	1.000	0.95	0.87
ANYN	1.000	0.89	0.81
AYPY	1.000	0.91	0.97
NZ31 NZKL			
NZAA	1.000	1.000	1.000
NZCH	1.000	1.000	1.000
NZWN	1.000	1.000	1.000
PK31 OPKC			
OPGD	1.000	1.121	0.839
OPKC	1.000	2.274	0.774
OPLA	1.000	1.000	0.806
OPNH	1.000	1.137	0.871

OPPS	1.000	1.097	0.871
OPRN	1.000	1.008	0.806
OPSK	1.000	1.137	0.871
PS31 NFFN			
NCRG	1.000	1.000	0.677
NFFN	1.000	1.073	0.903
NFNA	1.000	0.927	0.839
NFTF	1.000	0.992	0.903
NFTV	1.000	0.976	0.903
NGTV	1.000	0.984	0.935
NIUE	1.000	0.952	0.806
NLWW	1.000	1.363	0.871
NSAP	NA	0.000	NA
NSFA	1.000	0.992	0.839
NSTU	NA	0.000	NA
NTAA	1.000	0.992	0.968
NVSS	1.000	0.766	0.484
NVVV	1.000	0.750	0.419
NWWW	NA	0.000	NA
PLCH	1.000	0.976	0.968
SD31 OEJD			
OEDF	0.968	1.734	0.516
OEDR	0.968	1.718	0.516
OEJN	0.968	0.944	0.645
OEMA	0.968	0.935	0.645
OERK	0.968	0.944	0.677
OYSN	0.968	0.935	0.742
SR31 WSSS			
WAAA	1.000	1.008	0.935

WABB	0.710	0.298	1.000
WADD	1.000	0.984	0.903
WARR	1.000	0.960	0.677
WIHH	1.000	0.790	0.839
WIII	1.000	0.992	0.968
WIMM	0.806	0.742	0.774
WSAP	1.000	1.008	1.000
WSSL	1.000	1.008	1.000
WSSS	1.000	1.008	1.000
SR32 WSSS			
WMKJ	1.000	1.000	1.000
WMKK	1.000	1.000	1.000
WMKL	1.000	1.000	1.000
WMKM	1.000	1.000	1.000
WMKP	1.000	1.000	0.968
WMSA	1.000	1.000	0.968
SR33 WSSS			
WBGB	1.000	1.000	1.000
WBGG	1.000	1.000	1.000
WBGR	1.000	1.000	1.000
WBGS	1.000	1.000	1.000
WBKK	1.000	1.000	1.000
WBKL	1.000	0.992	0.968
WBKS	1.000	1.000	1.000
WBKW	1.000	1.000	1.000
WBSB	1.000	1.000	0.935
TH31 VTBB			
VTCH	1.000	0.492	0.903
VTCL	1.000	0.492	0.903
VTCN	1.000	0.492	0.903

VTCP	1.000	0.492	0.903
VTPB	1.000	0.476	0.871
VTPM	1.000	0.492	0.903
VTPO	1.000	0.492	0.903
VTPP	1.000	0.492	0.903
VTPT	1.000	0.492	0.903
TH32 VTBB			
VTSB	1.000	0.500	0.903
VTSC	1.000	0.492	0.871
VTSE	0.968	0.452	0.935
VTSF	1.000	0.500	0.903
VTSH	1.000	0.500	0.903
VTSK	1.000	0.500	0.903
VTSM	1.000	0.500	0.903
VTSR	1.000	0.468	0.645
VTST	1.000	0.468	0.613
TH33 VTBB			
VTUD	0.032	0.008	0.000
VTUI	0.032	0.008	0.000
VTUJ	1.000	0.516	0.935
VTUK	0.032	0.008	0.000
VTUL	0.032	0.008	0.000
VTUO	1.000	0.516	0.935
VTUQ	1.000	0.516	0.935
VTUV	1.000	0.516	0.935
VTUW	0.032	0.008	0.000
TM31 YBBN			
WPDL	0.968	0.315	0.968