

BepiColombo

FLIGHT REPORTS
of MPO-MAG

BC-MAG-TR-1001

Issue: 2 Revision: 1

2022-12-08

OVERVIEW OF
AVAILABLE MPO-MAG DATA
AND
DATA QUALITY ASSESSMENT

Mission Phase:	Near Earth Commissioning
Time Period:	October 24, 2018 - December 14, 2018

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1 Introduction

This document provides information about all available data and its quality for the time period between October 24, 2018 until December 14, 2018. This covers the Mission Phase NEAR EARTH COMMISSIONING (NECP).

For every year, month and day where measurement data are available overview plots have been created. The data availability plots show all data calibration levels available. The science modes of the data are distinguished by different colors. An overview table of available data completes the data overview.

Furthermore a list of known relevant events happening onboard the s/c is present to give a hint, where the data quality might be diminished by s/c interference.

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1.1 Relevant Events for MPOMAG

Switch on	Switch off	EVENTS	REFERENCE
2018-10-24T15:21		Boom Deployment @2018-10-25T12:40 Thruster Firings: @2018-10-27 Thruster 1B: 10:31, 10:36,10:41,10:46,10:51 Thruster 2B: 11:31, 11:36,11:41,11:46,11:51 Thruster 3B: 12:31, 12:36,12:41,12:46,12:51 Thruster 4B: 13:31, 13:36,13:41,13:46,13:51 WOL: 11:00, 12:00,13:00,14:00 MTM S/A rotated to 54 deg from Sun @ 2018-10-27T06:09 — 06:11 S/C flips, twice a day, start @2018-10-30 MTM drive run @ 2018-11-04T11:25, 10 times, stop at 2018-11-04T15:30 MEPS/DANS/SEPS CVP starts @2018-11-29T14:30 until 2018-11-16 MTM S/A Rotation @2018-11-04T11:41 MPOMAG CVP #2 @ 2018-11-04T16:00-19:34	MOR#1 MOR#1 MOR#1 MOR#2
	2018-11-05T13:51	Switch off due to MPO Battery discharge	MOR#3
2018-11-05T17:47	2018-11-07T11:01	Switch off due to SSMM Maintenance	MOR#3
		MMO switch on @2018-11-06T12:10	MOR#3
2018-11-07T11:09	2018-11-12T02:59	End of MPOMAG CVP	MOR#3
		MMO switch to cruise standby @2018-11-12T10:30	MOR#3
2018-11-29T17:32	2018-12-08T18:28	EPCM/SEPT1 test @2018-11-29T11:32,11:54,11:56 12:14,13:59,15:50,16:20. Thrust increase @14:21, EPCM off: 16:22	MOR#6 MOR#6
		EPCM/SEPT2 test @2018-11-30@09:32, 11:13,12:16, 14:19, EPCM off: 16:20	
		EPCM/SEPT1/4 test @2018-12-01@09:29, 10:56, 12:50, 14:17	MOR#6
		EPCM/SEPT1/4 test @2018-12-02@09:26, 10:53, 11:06, 11:12, 12:14, 13:41, 13:55 EPCM off: 19:00	MOR#6
		MPO S/A rotation @2018-12-07T12:29 \pm 2deg. nudging @ 12:46, 13:31, 14:46, 15:31 MPO SADE switch off 15:37	MOR#7
		EPCM/SEPT Test @2018-12-07T09:10, 10:38, EPCM off : @2018-12-07T10:42	MOR#7
2018-12-10T09:07	2018-12-15T18:08		MOR#7

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2 2018

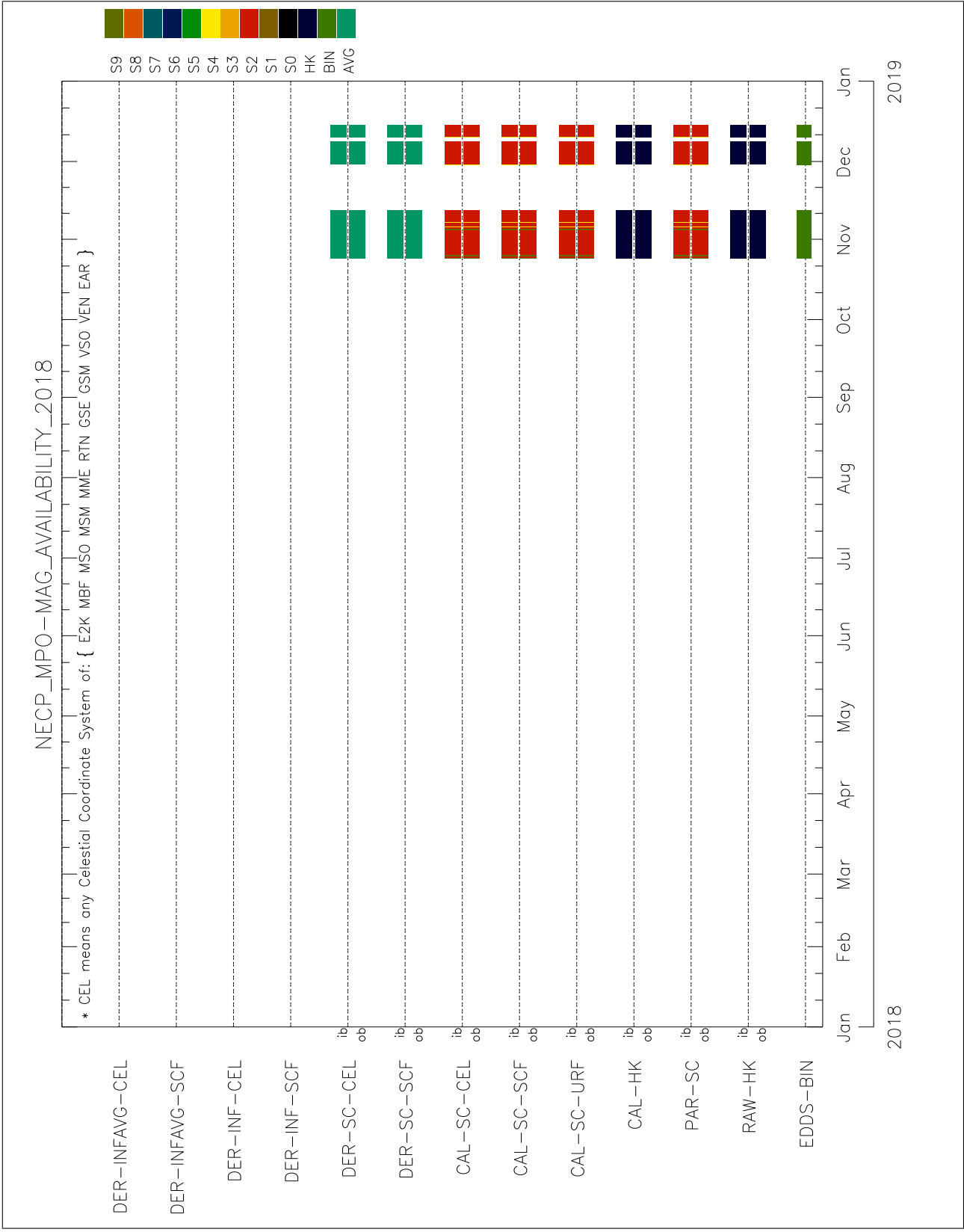


Figure 1: Overview 2018

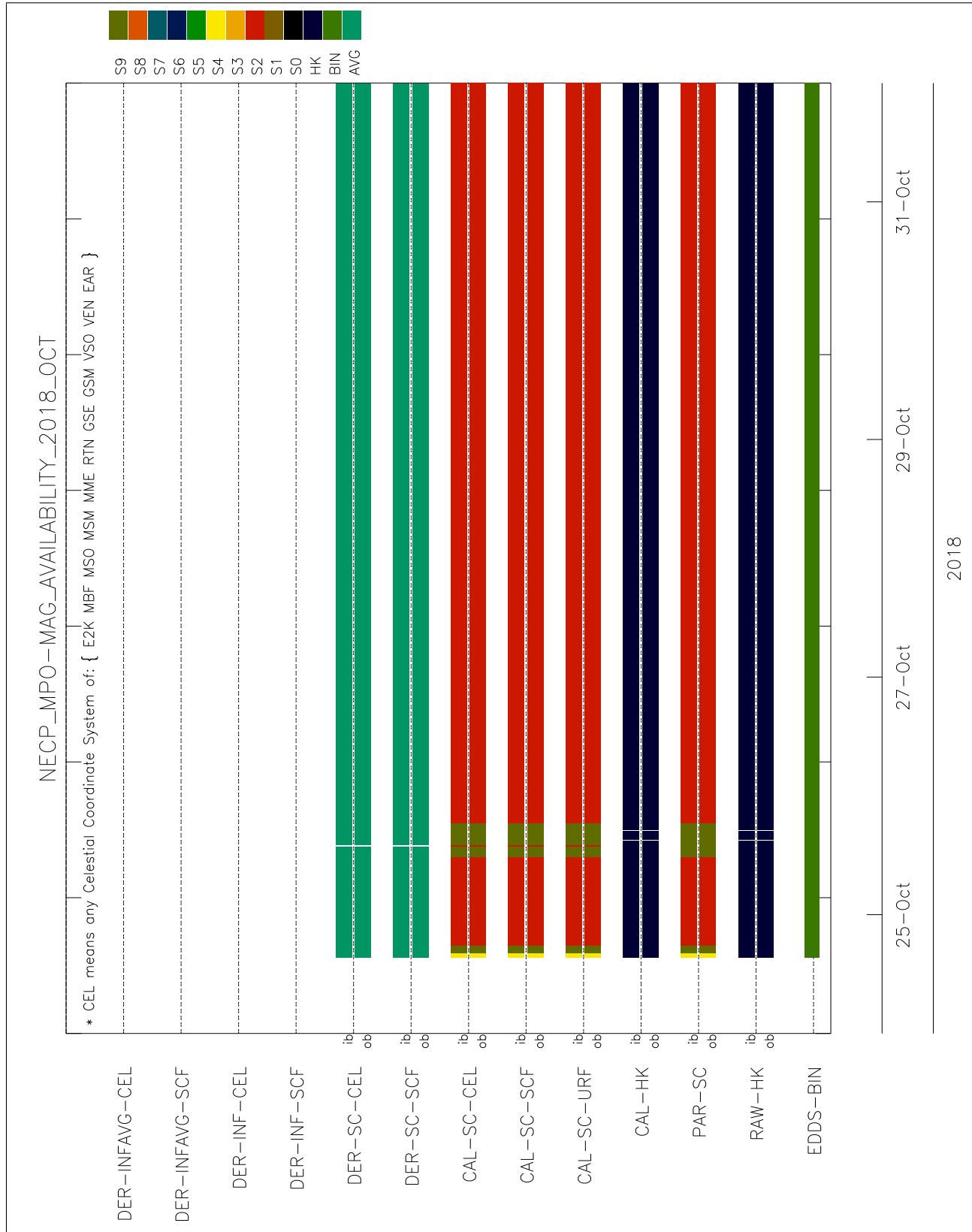


Figure 2: Overview October 2018

DATE	CALIBRATION LEVEL	COORDINATES	SAMPLE RATES (Hz)		
2018-10-24	edds_bin	URF	all available		
2018-10-24	raw_hk_ob	URF	standard HK rate		
2018-10-24	cal_hk_ob	URF	standard HK rate		
2018-10-24	par_sc_ob	URF	1	4	128
2018-10-24	cal_sc_ob	URF	1	4	128
2018-10-24	cal_sc_ob	SCF	1	4	128
2018-10-24	cal_sc_ob	E2K	1	4	128
2018-10-24	der_sc_ob	URF	N / A		
2018-10-24	der_sc_ob	SCF	AVG		
2018-10-24	der_sc_ob	E2K	AVG		
2018-10-24	raw_hk_ib	URF	standard HK rate		
2018-10-24	cal_hk_ib	URF	standard HK rate		
2018-10-24	par_sc_ib	URF	1	4	128
2018-10-24	cal_sc_ib	URF	1	4	128
2018-10-24	cal_sc_ib	SCF	1	4	128
2018-10-24	cal_sc_ib	E2K	1	4	128
2018-10-24	der_sc_ib	URF	N / A		
2018-10-24	der_sc_ib	SCF	AVG		
2018-10-24	der_sc_ib	E2K	AVG		
2018-10-24	der_inf	URF	N / A		
2018-10-24	der_inf	SCF	N / A		
2018-10-24	der_inf		MISSING!!		
2018-10-25	edds_bin	URF	all available		
2018-10-25	raw_hk_ob	URF	standard HK rate		
2018-10-25	cal_hk_ob	URF	standard HK rate		
2018-10-25	par_sc_ob	URF	1	4	128
2018-10-25	cal_sc_ob	URF	1	4	128
2018-10-25	cal_sc_ob	SCF	1	4	128
2018-10-25	cal_sc_ob	E2K	1	4	128
2018-10-25	der_sc_ob	URF	N / A		
2018-10-25	der_sc_ob	SCF	AVG		
2018-10-25	der_sc_ob	E2K	AVG		
2018-10-25	raw_hk_ib	URF	standard HK rate		
2018-10-25	cal_hk_ib	URF	standard HK rate		
2018-10-25	par_sc_ib	URF	1	4	128
2018-10-25	cal_sc_ib	URF	1	4	128
2018-10-25	cal_sc_ib	SCF	1	4	128
2018-10-25	cal_sc_ib	E2K	1	4	128
2018-10-25	der_sc_ib	URF	N / A		
2018-10-25	der_sc_ib	SCF	AVG		
2018-10-25	der_sc_ib	E2K	AVG		
2018-10-25	der_inf	URF	N / A		
2018-10-25	der_inf	SCF	N / A		
2018-10-25	der_inf		MISSING!!		

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DATE	CALIBRATION LEVEL	COORDINATES	SAMPLE RATES (Hz)
2018-10-26	edds_bin	URF	all available
2018-10-26	raw_hk_ob	URF	standard HK rate
2018-10-26	cal_hk_ob	URF	standard HK rate
2018-10-26	par_sc_ob	URF	1
2018-10-26	cal_sc_ob	URF	1
2018-10-26	cal_sc_ob	SCF	1
2018-10-26	cal_sc_ob	E2K	1
2018-10-26	der_sc_ob	URF	N / A
2018-10-26	der_sc_ob	SCF	AVG
2018-10-26	der_sc_ob	E2K	AVG
2018-10-26	raw_hk_ib	URF	standard HK rate
2018-10-26	cal_hk_ib	URF	standard HK rate
2018-10-26	par_sc_ib	URF	1
2018-10-26	cal_sc_ib	URF	1
2018-10-26	cal_sc_ib	SCF	1
2018-10-26	cal_sc_ib	E2K	1
2018-10-26	der_sc_ib	URF	N / A
2018-10-26	der_sc_ib	SCF	AVG
2018-10-26	der_sc_ib	E2K	AVG
2018-10-26	der_inf	URF	N / A
2018-10-26	der_inf	SCF	N / A
2018-10-26	der_inf		MISSING!!
2018-10-27	edds_bin	URF	all available
2018-10-27	raw_hk_ob	URF	standard HK rate
2018-10-27	cal_hk_ob	URF	standard HK rate
2018-10-27	par_sc_ob	URF	1
2018-10-27	cal_sc_ob	URF	1
2018-10-27	cal_sc_ob	SCF	1
2018-10-27	cal_sc_ob	E2K	1
2018-10-27	der_sc_ob	URF	N / A
2018-10-27	der_sc_ob	SCF	AVG
2018-10-27	der_sc_ob	E2K	AVG
2018-10-27	raw_hk_ib	URF	standard HK rate
2018-10-27	cal_hk_ib	URF	standard HK rate
2018-10-27	par_sc_ib	URF	1
2018-10-27	cal_sc_ib	URF	1
2018-10-27	cal_sc_ib	SCF	1
2018-10-27	cal_sc_ib	E2K	1
2018-10-27	der_sc_ib	URF	N / A
2018-10-27	der_sc_ib	SCF	AVG
2018-10-27	der_sc_ib	E2K	AVG
2018-10-27	der_inf	URF	N / A
2018-10-27	der_inf	SCF	N / A
2018-10-27	der_inf		MISSING!!

DATE	CALIBRATION LEVEL	COORDINATES	SAMPLE RATES (Hz)
2018-10-28	edds_bin	URF	all available
2018-10-28	raw_hk_ob	URF	standard HK rate
2018-10-28	cal_hk_ob	URF	standard HK rate
2018-10-28	par_sc_ob	URF	1
2018-10-28	cal_sc_ob	URF	1
2018-10-28	cal_sc_ob	SCF	1
2018-10-28	cal_sc_ob	E2K	1
2018-10-28	der_sc_ob	URF	N / A
2018-10-28	der_sc_ob	SCF	AVG
2018-10-28	der_sc_ob	E2K	AVG
2018-10-28	raw_hk_ib	URF	standard HK rate
2018-10-28	cal_hk_ib	URF	standard HK rate
2018-10-28	par_sc_ib	URF	1
2018-10-28	cal_sc_ib	URF	1
2018-10-28	cal_sc_ib	SCF	1
2018-10-28	cal_sc_ib	E2K	1
2018-10-28	der_sc_ib	URF	N / A
2018-10-28	der_sc_ib	SCF	AVG
2018-10-28	der_sc_ib	E2K	AVG
2018-10-28	der_inf	URF	N / A
2018-10-28	der_inf	SCF	N / A
2018-10-28	der_inf		MISSING!!
2018-10-29	edds_bin	URF	all available
2018-10-29	raw_hk_ob	URF	standard HK rate
2018-10-29	cal_hk_ob	URF	standard HK rate
2018-10-29	par_sc_ob	URF	1
2018-10-29	cal_sc_ob	URF	1
2018-10-29	cal_sc_ob	SCF	1
2018-10-29	cal_sc_ob	E2K	1
2018-10-29	der_sc_ob	URF	N / A
2018-10-29	der_sc_ob	SCF	AVG
2018-10-29	der_sc_ob	E2K	AVG
2018-10-29	raw_hk_ib	URF	standard HK rate
2018-10-29	cal_hk_ib	URF	standard HK rate
2018-10-29	par_sc_ib	URF	1
2018-10-29	cal_sc_ib	URF	1
2018-10-29	cal_sc_ib	SCF	1
2018-10-29	cal_sc_ib	E2K	1
2018-10-29	der_sc_ib	URF	N / A
2018-10-29	der_sc_ib	SCF	AVG
2018-10-29	der_sc_ib	E2K	AVG
2018-10-29	der_inf	URF	N / A
2018-10-29	der_inf	SCF	N / A
2018-10-29	der_inf		MISSING!!

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DATE	CALIBRATION LEVEL	COORDINATES	SAMPLE RATES (Hz)
2018-10-30	edds_bin	URF	all available
2018-10-30	raw_hk_ob	URF	standard HK rate
2018-10-30	cal_hk_ob	URF	standard HK rate
2018-10-30	par_sc_ob	URF	1
2018-10-30	cal_sc_ob	URF	1
2018-10-30	cal_sc_ob	SCF	1
2018-10-30	cal_sc_ob	E2K	1
2018-10-30	der_sc_ob	URF	N / A
2018-10-30	der_sc_ob	SCF	AVG
2018-10-30	der_sc_ob	E2K	AVG
2018-10-30	raw_hk_ib	URF	standard HK rate
2018-10-30	cal_hk_ib	URF	standard HK rate
2018-10-30	par_sc_ib	URF	1
2018-10-30	cal_sc_ib	URF	1
2018-10-30	cal_sc_ib	SCF	1
2018-10-30	cal_sc_ib	E2K	1
2018-10-30	der_sc_ib	URF	N / A
2018-10-30	der_sc_ib	SCF	AVG
2018-10-30	der_sc_ib	E2K	AVG
2018-10-30	der_inf	URF	N / A
2018-10-30	der_inf	SCF	N / A
2018-10-30	der_inf		MISSING!!
2018-10-31	edds_bin	URF	all available
2018-10-31	raw_hk_ob	URF	standard HK rate
2018-10-31	cal_hk_ob	URF	standard HK rate
2018-10-31	par_sc_ob	URF	1
2018-10-31	cal_sc_ob	URF	1
2018-10-31	cal_sc_ob	SCF	1
2018-10-31	cal_sc_ob	E2K	1
2018-10-31	der_sc_ob	URF	N / A
2018-10-31	der_sc_ob	SCF	AVG
2018-10-31	der_sc_ob	E2K	AVG
2018-10-31	raw_hk_ib	URF	standard HK rate
2018-10-31	cal_hk_ib	URF	standard HK rate
2018-10-31	par_sc_ib	URF	1
2018-10-31	cal_sc_ib	URF	1
2018-10-31	cal_sc_ib	SCF	1
2018-10-31	cal_sc_ib	E2K	1
2018-10-31	der_sc_ib	URF	N / A
2018-10-31	der_sc_ib	SCF	AVG
2018-10-31	der_sc_ib	E2K	AVG
2018-10-31	der_inf	URF	N / A
2018-10-31	der_inf	SCF	N / A
2018-10-31	der_inf		MISSING!!

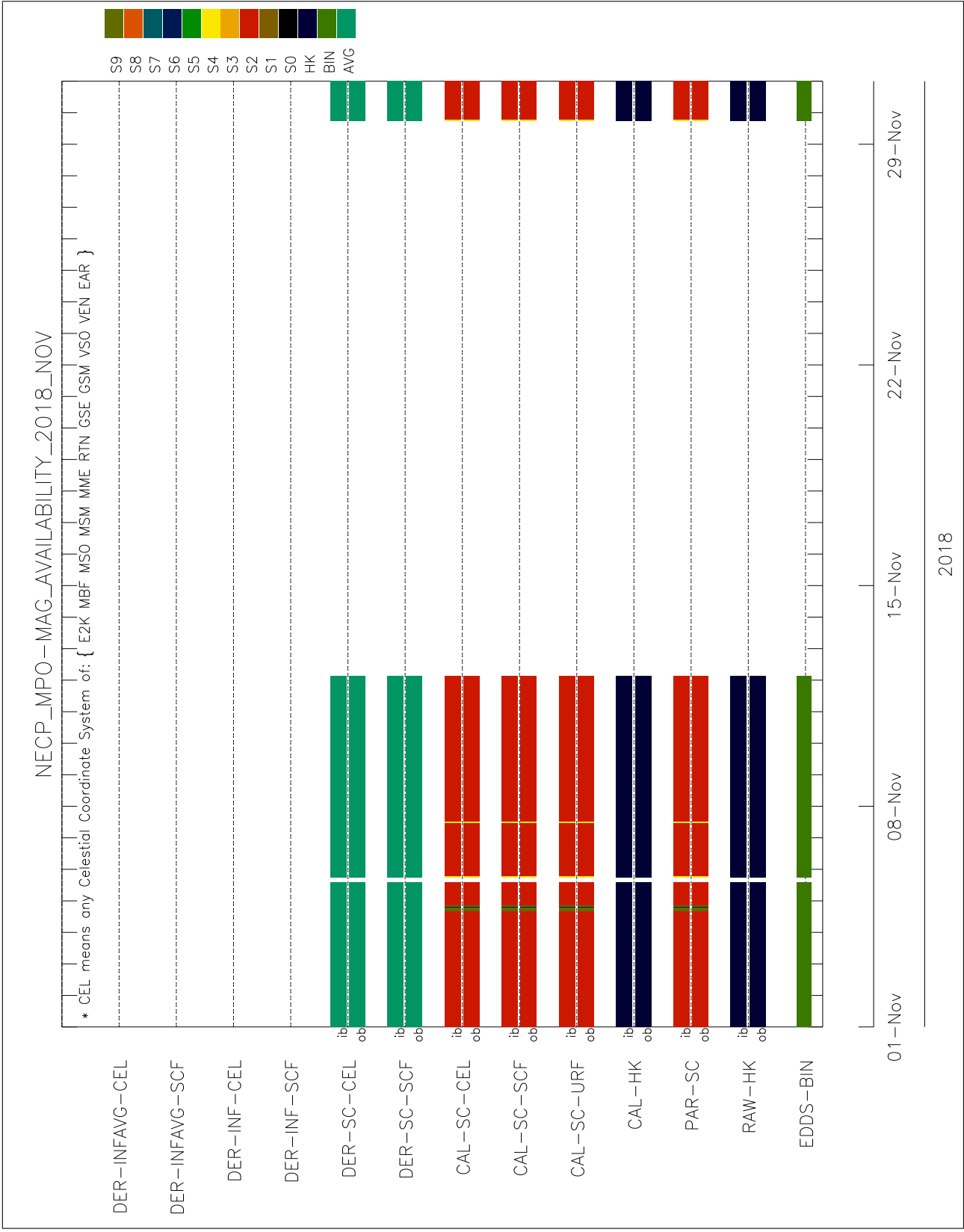


Figure 3: Overview November 2018

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2018-11-01	edds_bin	URF	all available
2018-11-01	raw_hk_ob	URF	standard HK rate
2018-11-01	cal_hk_ob	URF	standard HK rate
2018-11-01	par_sc_ob	URF	1
2018-11-01	cal_sc_ob	URF	1
2018-11-01	cal_sc_ob	SCF	1
2018-11-01	cal_sc_ob	E2K	1
2018-11-01	der_sc_ob	URF	N / A
2018-11-01	der_sc_ob	SCF	AVG
2018-11-01	der_sc_ob	E2K	AVG
2018-11-01	raw_hk_ib	URF	standard HK rate
2018-11-01	cal_hk_ib	URF	standard HK rate
2018-11-01	par_sc_ib	URF	1
2018-11-01	cal_sc_ib	URF	1
2018-11-01	cal_sc_ib	SCF	1
2018-11-01	cal_sc_ib	E2K	1
2018-11-01	der_sc_ib	URF	N / A
2018-11-01	der_sc_ib	SCF	AVG
2018-11-01	der_sc_ib	E2K	AVG
2018-11-01	der_inf	URF	N / A
2018-11-01	der_inf	SCF	N / A
2018-11-01	der_inf		MISSING!!
2018-11-02	edds_bin	URF	all available
2018-11-02	raw_hk_ob	URF	standard HK rate
2018-11-02	cal_hk_ob	URF	standard HK rate
2018-11-02	par_sc_ob	URF	1
2018-11-02	cal_sc_ob	URF	1
2018-11-02	cal_sc_ob	SCF	1
2018-11-02	cal_sc_ob	E2K	1
2018-11-02	der_sc_ob	URF	N / A
2018-11-02	der_sc_ob	SCF	AVG
2018-11-02	der_sc_ob	E2K	AVG
2018-11-02	raw_hk_ib	URF	standard HK rate
2018-11-02	cal_hk_ib	URF	standard HK rate
2018-11-02	par_sc_ib	URF	1
2018-11-02	cal_sc_ib	URF	1
2018-11-02	cal_sc_ib	SCF	1
2018-11-02	cal_sc_ib	E2K	1
2018-11-02	der_sc_ib	URF	N / A
2018-11-02	der_sc_ib	SCF	AVG
2018-11-02	der_sc_ib	E2K	AVG
2018-11-02	der_inf	URF	N / A
2018-11-02	der_inf	SCF	N / A
2018-11-02	der_inf		MISSING!!

DATE	CALIBRATION LEVEL	COORDINATES	SAMPLE RATES (Hz)									
2018-11-03	edds_bin	URF	all available									
2018-11-03	raw_hk_ob	URF	standard HK rate									
2018-11-03	cal_hk_ob	URF	standard HK rate									
2018-11-03	par_sc_ob	URF	1									
2018-11-03	cal_sc_ob	URF	1									
2018-11-03	cal_sc_ob	SCF	1									
2018-11-03	cal_sc_ob	E2K	1									
2018-11-03	der_sc_ob	URF	N / A									
2018-11-03	der_sc_ob	SCF								AVG		
2018-11-03	der_sc_ob	E2K								AVG		
2018-11-03	raw_hk_ib	URF	standard HK rate									
2018-11-03	cal_hk_ib	URF	standard HK rate									
2018-11-03	par_sc_ib	URF	1									
2018-11-03	cal_sc_ib	URF	1									
2018-11-03	cal_sc_ib	SCF	1									
2018-11-03	cal_sc_ib	E2K	1									
2018-11-03	der_sc_ib	URF	N / A									
2018-11-03	der_sc_ib	SCF								AVG		
2018-11-03	der_sc_ib	E2K								AVG		
2018-11-03	der_inf	URF	N / A									
2018-11-03	der_inf	SCF	N / A									
2018-11-03	der_inf		MISSING!!									
2018-11-04	edds_bin	URF	all available									
2018-11-04	raw_hk_ob	URF	standard HK rate									
2018-11-04	cal_hk_ob	URF	standard HK rate									
2018-11-04	par_sc_ob	URF	0.5	1	2	4	8	16	32	64	128	
2018-11-04	cal_sc_ob	URF	1	2	4	8	16	32	64	128		
2018-11-04	cal_sc_ob	SCF	1	2	4	8	16	32	64	128		
2018-11-04	cal_sc_ob	E2K	1	2	4	8	16	32	64	128		
2018-11-04	der_sc_ob	URF	N / A									
2018-11-04	der_sc_ob	SCF								AVG		
2018-11-04	der_sc_ob	E2K								AVG		
2018-11-04	raw_hk_ib	URF	standard HK rate									
2018-11-04	cal_hk_ib	URF	standard HK rate									
2018-11-04	par_sc_ib	URF	0.5	1	2	4	8	16	32	64	128	
2018-11-04	cal_sc_ib	URF	1	2	4	8	16	32	64	128		
2018-11-04	cal_sc_ib	SCF	1	2	4	8	16	32	64	128		
2018-11-04	cal_sc_ib	E2K	1	2	4	8	16	32	64	128		
2018-11-04	der_sc_ib	URF	N / A									
2018-11-04	der_sc_ib	SCF								AVG		
2018-11-04	der_sc_ib	E2K								AVG		
2018-11-04	der_inf	URF	N / A									
2018-11-04	der_inf	SCF	N / A									
2018-11-04	der_inf		MISSING!!									

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DATE	CALIBRATION LEVEL	COORDINATES	SAMPLE RATES (Hz)	
2018-11-05	edds_bin	URF	all available	
2018-11-05	raw_hk_ob	URF	standard HK rate	
2018-11-05	cal_hk_ob	URF	standard HK rate	
2018-11-05	par_sc_ob	URF	1	4
2018-11-05	cal_sc_ob	URF	1	4
2018-11-05	cal_sc_ob	SCF	1	4
2018-11-05	cal_sc_ob	E2K	1	4
2018-11-05	der_sc_ob	URF	N / A	
2018-11-05	der_sc_ob	SCF	AVG	
2018-11-05	der_sc_ob	E2K	AVG	
2018-11-05	raw_hk_ib	URF	standard HK rate	
2018-11-05	cal_hk_ib	URF	standard HK rate	
2018-11-05	par_sc_ib	URF	1	4
2018-11-05	cal_sc_ib	URF	1	4
2018-11-05	cal_sc_ib	SCF	1	4
2018-11-05	cal_sc_ib	E2K	1	4
2018-11-05	der_sc_ib	URF	N / A	
2018-11-05	der_sc_ib	SCF	AVG	
2018-11-05	der_sc_ib	E2K	AVG	
2018-11-05	der_inf	URF	N / A	
2018-11-05	der_inf	SCF	N / A	
2018-11-05	der_inf		MISSING!!	
2018-11-06	edds_bin	URF	all available	
2018-11-06	raw_hk_ob	URF	standard HK rate	
2018-11-06	cal_hk_ob	URF	standard HK rate	
2018-11-06	par_sc_ob	URF	1	
2018-11-06	cal_sc_ob	URF	1	
2018-11-06	cal_sc_ob	SCF	1	
2018-11-06	cal_sc_ob	E2K	1	
2018-11-06	der_sc_ob	URF	N / A	
2018-11-06	der_sc_ob	SCF	AVG	
2018-11-06	der_sc_ob	E2K	AVG	
2018-11-06	raw_hk_ib	URF	standard HK rate	
2018-11-06	cal_hk_ib	URF	standard HK rate	
2018-11-06	par_sc_ib	URF	1	
2018-11-06	cal_sc_ib	URF	1	
2018-11-06	cal_sc_ib	SCF	1	
2018-11-06	cal_sc_ib	E2K	1	
2018-11-06	der_sc_ib	URF	N / A	
2018-11-06	der_sc_ib	SCF	AVG	
2018-11-06	der_sc_ib	E2K	AVG	
2018-11-06	der_inf	URF	N / A	
2018-11-06	der_inf	SCF	N / A	
2018-11-06	der_inf		MISSING!!	

DATE	CALIBRATION LEVEL	COORDINATES	SAMPLE RATES (Hz)
2018-11-07	edds_bin	URF	all available
2018-11-07	raw_hk_ob	URF	standard HK rate
2018-11-07	cal_hk_ob	URF	standard HK rate
2018-11-07	par_sc_ob	URF	1 4
2018-11-07	cal_sc_ob	URF	1 4
2018-11-07	cal_sc_ob	SCF	1 4
2018-11-07	cal_sc_ob	E2K	1 4
2018-11-07	der_sc_ob	URF	N / A
2018-11-07	der_sc_ob	SCF	AVG
2018-11-07	der_sc_ob	E2K	AVG
2018-11-07	raw_hk_ib	URF	standard HK rate
2018-11-07	cal_hk_ib	URF	standard HK rate
2018-11-07	par_sc_ib	URF	1 4
2018-11-07	cal_sc_ib	URF	1 4
2018-11-07	cal_sc_ib	SCF	1 4
2018-11-07	cal_sc_ib	E2K	1 4
2018-11-07	der_sc_ib	URF	N / A
2018-11-07	der_sc_ib	SCF	AVG
2018-11-07	der_sc_ib	E2K	AVG
2018-11-07	der_inf	URF	N / A
2018-11-07	der_inf	SCF	N / A
2018-11-07	der_inf		MISSING!!
2018-11-08	edds_bin	URF	all available
2018-11-08	raw_hk_ob	URF	standard HK rate
2018-11-08	cal_hk_ob	URF	standard HK rate
2018-11-08	par_sc_ob	URF	1
2018-11-08	cal_sc_ob	URF	1
2018-11-08	cal_sc_ob	SCF	1
2018-11-08	cal_sc_ob	E2K	1
2018-11-08	der_sc_ob	URF	N / A
2018-11-08	der_sc_ob	SCF	AVG
2018-11-08	der_sc_ob	E2K	AVG
2018-11-08	raw_hk_ib	URF	standard HK rate
2018-11-08	cal_hk_ib	URF	standard HK rate
2018-11-08	par_sc_ib	URF	1
2018-11-08	cal_sc_ib	URF	1
2018-11-08	cal_sc_ib	SCF	1
2018-11-08	cal_sc_ib	E2K	1
2018-11-08	der_sc_ib	URF	N / A
2018-11-08	der_sc_ib	SCF	AVG
2018-11-08	der_sc_ib	E2K	AVG
2018-11-08	der_inf	URF	N / A
2018-11-08	der_inf	SCF	N / A
2018-11-08	der_inf		MISSING!!

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2018-11-09	edds_bin	URF	all available	
2018-11-09	raw_hk_ob	URF	standard HK rate	
2018-11-09	cal_hk_ob	URF	standard HK rate	
2018-11-09	par_sc_ob	URF	1	
2018-11-09	cal_sc_ob	URF	1	
2018-11-09	cal_sc_ob	SCF	1	
2018-11-09	cal_sc_ob	E2K	1	
2018-11-09	der_sc_ob	URF	N / A	
2018-11-09	der_sc_ob	SCF		AVG
2018-11-09	der_sc_ob	E2K		AVG
2018-11-09	raw_hk_ib	URF	standard HK rate	
2018-11-09	cal_hk_ib	URF	standard HK rate	
2018-11-09	par_sc_ib	URF	1	
2018-11-09	cal_sc_ib	URF	1	
2018-11-09	cal_sc_ib	SCF	1	
2018-11-09	cal_sc_ib	E2K	1	
2018-11-09	der_sc_ib	URF	N / A	
2018-11-09	der_sc_ib	SCF		AVG
2018-11-09	der_sc_ib	E2K		AVG
2018-11-09	der_inf	URF	N / A	
2018-11-09	der_inf	SCF	N / A	
2018-11-09	der_inf		MISSING!!	
2018-11-10	edds_bin	URF	all available	
2018-11-10	raw_hk_ob	URF	standard HK rate	
2018-11-10	cal_hk_ob	URF	standard HK rate	
2018-11-10	par_sc_ob	URF	1	
2018-11-10	cal_sc_ob	URF	1	
2018-11-10	cal_sc_ob	SCF	1	
2018-11-10	cal_sc_ob	E2K	1	
2018-11-10	der_sc_ob	URF	N / A	
2018-11-10	der_sc_ob	SCF		AVG
2018-11-10	der_sc_ob	E2K		AVG
2018-11-10	raw_hk_ib	URF	standard HK rate	
2018-11-10	cal_hk_ib	URF	standard HK rate	
2018-11-10	par_sc_ib	URF	1	
2018-11-10	cal_sc_ib	URF	1	
2018-11-10	cal_sc_ib	SCF	1	
2018-11-10	cal_sc_ib	E2K	1	
2018-11-10	der_sc_ib	URF	N / A	
2018-11-10	der_sc_ib	SCF		AVG
2018-11-10	der_sc_ib	E2K		AVG
2018-11-10	der_inf	URF	N / A	
2018-11-10	der_inf	SCF	N / A	
2018-11-10	der_inf		MISSING!!	

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DATE	CALIBRATION LEVEL	COORDINATES	SAMPLE RATES (Hz)	
2018-11-11	edds_bin	URF	all available	
2018-11-11	raw_hk_ob	URF	standard HK rate	
2018-11-11	cal_hk_ob	URF	standard HK rate	
2018-11-11	par_sc_ob	URF	1	
2018-11-11	cal_sc_ob	URF	1	
2018-11-11	cal_sc_ob	SCF	1	
2018-11-11	cal_sc_ob	E2K	1	
2018-11-11	der_sc_ob	URF	N / A	
2018-11-11	der_sc_ob	SCF		AVG
2018-11-11	der_sc_ob	E2K		AVG
2018-11-11	raw_hk_ib	URF	standard HK rate	
2018-11-11	cal_hk_ib	URF	standard HK rate	
2018-11-11	par_sc_ib	URF	1	
2018-11-11	cal_sc_ib	URF	1	
2018-11-11	cal_sc_ib	SCF	1	
2018-11-11	cal_sc_ib	E2K	1	
2018-11-11	der_sc_ib	URF	N / A	
2018-11-11	der_sc_ib	SCF		AVG
2018-11-11	der_sc_ib	E2K		AVG
2018-11-11	der_inf	URF	N / A	
2018-11-11	der_inf	SCF	N / A	
2018-11-11	der_inf		MISSING!!	
2018-11-12	edds_bin	URF	all available	
2018-11-12	raw_hk_ob	URF	standard HK rate	
2018-11-12	cal_hk_ob	URF	standard HK rate	
2018-11-12	par_sc_ob	URF	1	
2018-11-12	cal_sc_ob	URF	1	
2018-11-12	cal_sc_ob	SCF	1	
2018-11-12	cal_sc_ob	E2K	1	
2018-11-12	der_sc_ob	URF	N / A	
2018-11-12	der_sc_ob	SCF		AVG
2018-11-12	der_sc_ob	E2K		AVG
2018-11-12	raw_hk_ib	URF	standard HK rate	
2018-11-12	cal_hk_ib	URF	standard HK rate	
2018-11-12	par_sc_ib	URF	1	
2018-11-12	cal_sc_ib	URF	1	
2018-11-12	cal_sc_ib	SCF	1	
2018-11-12	cal_sc_ib	E2K	1	
2018-11-12	der_sc_ib	URF	N / A	
2018-11-12	der_sc_ib	SCF		AVG
2018-11-12	der_sc_ib	E2K		AVG
2018-11-12	der_inf	URF	N / A	
2018-11-12	der_inf	SCF	N / A	
2018-11-12	der_inf		MISSING!!	

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2018-11-29	edds_bin	URF	all available	
2018-11-29	raw_hk_ob	URF	standard HK rate	
2018-11-29	cal_hk_ob	URF	standard HK rate	
2018-11-29	par_sc_ob	URF	1	4
2018-11-29	cal_sc_ob	URF	1	4
2018-11-29	cal_sc_ob	SCF	1	4
2018-11-29	cal_sc_ob	E2K	1	4
2018-11-29	der_sc_ob	URF	N / A	
2018-11-29	der_sc_ob	SCF	AVG	
2018-11-29	der_sc_ob	E2K	AVG	
2018-11-29	raw_hk_ib	URF	standard HK rate	
2018-11-29	cal_hk_ib	URF	standard HK rate	
2018-11-29	par_sc_ib	URF	1	4
2018-11-29	cal_sc_ib	URF	1	4
2018-11-29	cal_sc_ib	SCF	1	4
2018-11-29	cal_sc_ib	E2K	1	4
2018-11-29	der_sc_ib	URF	N / A	
2018-11-29	der_sc_ib	SCF	AVG	
2018-11-29	der_sc_ib	E2K	AVG	
2018-11-29	der_inf	URF	N / A	
2018-11-29	der_inf	SCF	N / A	
2018-11-29	der_inf		MISSING!!	
2018-11-30	edds_bin	URF	all available	
2018-11-30	raw_hk_ob	URF	standard HK rate	
2018-11-30	cal_hk_ob	URF	standard HK rate	
2018-11-30	par_sc_ob	URF	1	
2018-11-30	cal_sc_ob	URF	1	
2018-11-30	cal_sc_ob	SCF	1	
2018-11-30	cal_sc_ob	E2K	1	
2018-11-30	der_sc_ob	URF	N / A	
2018-11-30	der_sc_ob	SCF	AVG	
2018-11-30	der_sc_ob	E2K	AVG	
2018-11-30	raw_hk_ib	URF	standard HK rate	
2018-11-30	cal_hk_ib	URF	standard HK rate	
2018-11-30	par_sc_ib	URF	1	
2018-11-30	cal_sc_ib	URF	1	
2018-11-30	cal_sc_ib	SCF	1	
2018-11-30	cal_sc_ib	E2K	1	
2018-11-30	der_sc_ib	URF	N / A	
2018-11-30	der_sc_ib	SCF	AVG	
2018-11-30	der_sc_ib	E2K	AVG	
2018-11-30	der_inf	URF	N / A	
2018-11-30	der_inf	SCF	N / A	
2018-11-30	der_inf		MISSING!!	

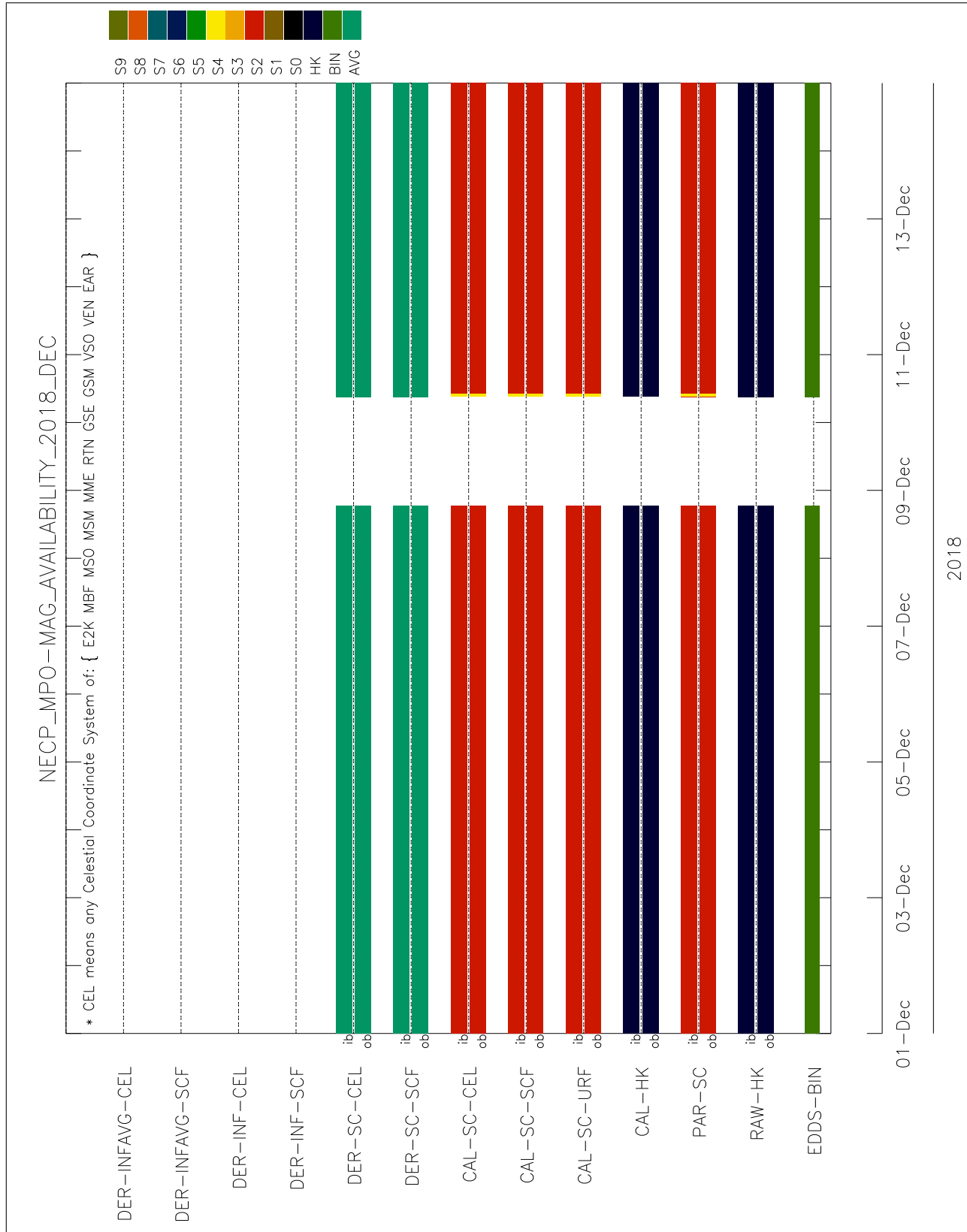


Figure 4: Overview December 2018

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DATE	CALIBRATION LEVEL	COORDINATES	SAMPLE RATES (Hz)
2018-12-01	edds_bin	URF	all available
2018-12-01	raw_hk_ob	URF	standard HK rate
2018-12-01	cal_hk_ob	URF	standard HK rate
2018-12-01	par_sc_ob	URF	1
2018-12-01	cal_sc_ob	URF	1
2018-12-01	cal_sc_ob	SCF	1
2018-12-01	cal_sc_ob	E2K	1
2018-12-01	der_sc_ob	URF	N / A
2018-12-01	der_sc_ob	SCF	AVG
2018-12-01	der_sc_ob	E2K	AVG
2018-12-01	raw_hk_ib	URF	standard HK rate
2018-12-01	cal_hk_ib	URF	standard HK rate
2018-12-01	par_sc_ib	URF	1
2018-12-01	cal_sc_ib	URF	1
2018-12-01	cal_sc_ib	SCF	1
2018-12-01	cal_sc_ib	E2K	1
2018-12-01	der_sc_ib	URF	N / A
2018-12-01	der_sc_ib	SCF	AVG
2018-12-01	der_sc_ib	E2K	AVG
2018-12-01	der_inf	URF	N / A
2018-12-01	der_inf	SCF	N / A
2018-12-01	der_inf		MISSING!!
2018-12-02	edds_bin	URF	all available
2018-12-02	raw_hk_ob	URF	standard HK rate
2018-12-02	cal_hk_ob	URF	standard HK rate
2018-12-02	par_sc_ob	URF	1
2018-12-02	cal_sc_ob	URF	1
2018-12-02	cal_sc_ob	SCF	1
2018-12-02	cal_sc_ob	E2K	1
2018-12-02	der_sc_ob	URF	N / A
2018-12-02	der_sc_ob	SCF	AVG
2018-12-02	der_sc_ob	E2K	AVG
2018-12-02	raw_hk_ib	URF	standard HK rate
2018-12-02	cal_hk_ib	URF	standard HK rate
2018-12-02	par_sc_ib	URF	1
2018-12-02	cal_sc_ib	URF	1
2018-12-02	cal_sc_ib	SCF	1
2018-12-02	cal_sc_ib	E2K	1
2018-12-02	der_sc_ib	URF	N / A
2018-12-02	der_sc_ib	SCF	AVG
2018-12-02	der_sc_ib	E2K	AVG
2018-12-02	der_inf	URF	N / A
2018-12-02	der_inf	SCF	N / A
2018-12-02	der_inf		MISSING!!

DATE	CALIBRATION LEVEL	COORDINATES	SAMPLE RATES (Hz)	
2018-12-03	edds_bin	URF	all available	
2018-12-03	raw_hk_ob	URF	standard HK rate	
2018-12-03	cal_hk_ob	URF	standard HK rate	
2018-12-03	par_sc_ob	URF	1	
2018-12-03	cal_sc_ob	URF	1	
2018-12-03	cal_sc_ob	SCF	1	
2018-12-03	cal_sc_ob	E2K	1	
2018-12-03	der_sc_ob	URF	N / A	
2018-12-03	der_sc_ob	SCF		AVG
2018-12-03	der_sc_ob	E2K		AVG
2018-12-03	raw_hk_ib	URF	standard HK rate	
2018-12-03	cal_hk_ib	URF	standard HK rate	
2018-12-03	par_sc_ib	URF	1	
2018-12-03	cal_sc_ib	URF	1	
2018-12-03	cal_sc_ib	SCF	1	
2018-12-03	cal_sc_ib	E2K	1	
2018-12-03	der_sc_ib	URF	N / A	
2018-12-03	der_sc_ib	SCF		AVG
2018-12-03	der_sc_ib	E2K		AVG
2018-12-03	der_inf	URF	N / A	
2018-12-03	der_inf	SCF	N / A	
2018-12-03	der_inf		MISSING!!	
2018-12-04	edds_bin	URF	all available	
2018-12-04	raw_hk_ob	URF	standard HK rate	
2018-12-04	cal_hk_ob	URF	standard HK rate	
2018-12-04	par_sc_ob	URF	1	
2018-12-04	cal_sc_ob	URF	1	
2018-12-04	cal_sc_ob	SCF	1	
2018-12-04	cal_sc_ob	E2K	1	
2018-12-04	der_sc_ob	URF	N / A	
2018-12-04	der_sc_ob	SCF		AVG
2018-12-04	der_sc_ob	E2K		AVG
2018-12-04	raw_hk_ib	URF	standard HK rate	
2018-12-04	cal_hk_ib	URF	standard HK rate	
2018-12-04	par_sc_ib	URF	1	
2018-12-04	cal_sc_ib	URF	1	
2018-12-04	cal_sc_ib	SCF	1	
2018-12-04	cal_sc_ib	E2K	1	
2018-12-04	der_sc_ib	URF	N / A	
2018-12-04	der_sc_ib	SCF		AVG
2018-12-04	der_sc_ib	E2K		AVG
2018-12-04	der_inf	URF	N / A	
2018-12-04	der_inf	SCF	N / A	
2018-12-04	der_inf		MISSING!!	

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2018-12-05	edds_bin	URF	all available	
2018-12-05	raw_hk_ob	URF	standard HK rate	
2018-12-05	cal_hk_ob	URF	standard HK rate	
2018-12-05	par_sc_ob	URF	1	
2018-12-05	cal_sc_ob	URF	1	
2018-12-05	cal_sc_ob	SCF	1	
2018-12-05	cal_sc_ob	E2K	1	
2018-12-05	der_sc_ob	URF	N / A	
2018-12-05	der_sc_ob	SCF		AVG
2018-12-05	der_sc_ob	E2K		AVG
2018-12-05	raw_hk_ib	URF	standard HK rate	
2018-12-05	cal_hk_ib	URF	standard HK rate	
2018-12-05	par_sc_ib	URF	1	
2018-12-05	cal_sc_ib	URF	1	
2018-12-05	cal_sc_ib	SCF	1	
2018-12-05	cal_sc_ib	E2K	1	
2018-12-05	der_sc_ib	URF	N / A	
2018-12-05	der_sc_ib	SCF		AVG
2018-12-05	der_sc_ib	E2K		AVG
2018-12-05	der_inf	URF	N / A	
2018-12-05	der_inf	SCF	N / A	
2018-12-05	der_inf		MISSING!!	
2018-12-06	edds_bin	URF	all available	
2018-12-06	raw_hk_ob	URF	standard HK rate	
2018-12-06	cal_hk_ob	URF	standard HK rate	
2018-12-06	par_sc_ob	URF	1	
2018-12-06	cal_sc_ob	URF	1	
2018-12-06	cal_sc_ob	SCF	1	
2018-12-06	cal_sc_ob	E2K	1	
2018-12-06	der_sc_ob	URF	N / A	
2018-12-06	der_sc_ob	SCF		AVG
2018-12-06	der_sc_ob	E2K		AVG
2018-12-06	raw_hk_ib	URF	standard HK rate	
2018-12-06	cal_hk_ib	URF	standard HK rate	
2018-12-06	par_sc_ib	URF	1	
2018-12-06	cal_sc_ib	URF	1	
2018-12-06	cal_sc_ib	SCF	1	
2018-12-06	cal_sc_ib	E2K	1	
2018-12-06	der_sc_ib	URF	N / A	
2018-12-06	der_sc_ib	SCF		AVG
2018-12-06	der_sc_ib	E2K		AVG
2018-12-06	der_inf	URF	N / A	
2018-12-06	der_inf	SCF	N / A	
2018-12-06	der_inf		MISSING!!	

DATE	CALIBRATION LEVEL	COORDINATES	SAMPLE RATES (Hz)	
2018-12-07	edds_bin	URF	all available	
2018-12-07	raw_hk_ob	URF	standard HK rate	
2018-12-07	cal_hk_ob	URF	standard HK rate	
2018-12-07	par_sc_ob	URF	1	
2018-12-07	cal_sc_ob	URF	1	
2018-12-07	cal_sc_ob	SCF	1	
2018-12-07	cal_sc_ob	E2K	1	
2018-12-07	der_sc_ob	URF	N / A	
2018-12-07	der_sc_ob	SCF		AVG
2018-12-07	der_sc_ob	E2K		AVG
2018-12-07	raw_hk_ib	URF	standard HK rate	
2018-12-07	cal_hk_ib	URF	standard HK rate	
2018-12-07	par_sc_ib	URF	1	
2018-12-07	cal_sc_ib	URF	1	
2018-12-07	cal_sc_ib	SCF	1	
2018-12-07	cal_sc_ib	E2K	1	
2018-12-07	der_sc_ib	URF	N / A	
2018-12-07	der_sc_ib	SCF		AVG
2018-12-07	der_sc_ib	E2K		AVG
2018-12-07	der_inf	URF	N / A	
2018-12-07	der_inf	SCF	N / A	
2018-12-07	der_inf		MISSING!!	
2018-12-08	edds_bin	URF	all available	
2018-12-08	raw_hk_ob	URF	standard HK rate	
2018-12-08	cal_hk_ob	URF	standard HK rate	
2018-12-08	par_sc_ob	URF	1	
2018-12-08	cal_sc_ob	URF	1	
2018-12-08	cal_sc_ob	SCF	1	
2018-12-08	cal_sc_ob	E2K	1	
2018-12-08	der_sc_ob	URF	N / A	
2018-12-08	der_sc_ob	SCF		AVG
2018-12-08	der_sc_ob	E2K		AVG
2018-12-08	raw_hk_ib	URF	standard HK rate	
2018-12-08	cal_hk_ib	URF	standard HK rate	
2018-12-08	par_sc_ib	URF	1	
2018-12-08	cal_sc_ib	URF	1	
2018-12-08	cal_sc_ib	SCF	1	
2018-12-08	cal_sc_ib	E2K	1	
2018-12-08	der_sc_ib	URF	N / A	
2018-12-08	der_sc_ib	SCF		AVG
2018-12-08	der_sc_ib	E2K		AVG
2018-12-08	der_inf	URF	N / A	
2018-12-08	der_inf	SCF	N / A	
2018-12-08	der_inf		MISSING!!	

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2018-12-10	edds_bin	URF	all available	
2018-12-10	raw_hk_ob	URF	standard HK rate	
2018-12-10	cal_hk_ob	URF	standard HK rate	
2018-12-10	par_sc_ob	URF	1	4
2018-12-10	cal_sc_ob	URF	1	4
2018-12-10	cal_sc_ob	SCF	1	4
2018-12-10	cal_sc_ob	E2K	1	4
2018-12-10	der_sc_ob	URF	N / A	
2018-12-10	der_sc_ob	SCF	AVG	
2018-12-10	der_sc_ob	E2K	AVG	
2018-12-10	raw_hk_ib	URF	standard HK rate	
2018-12-10	cal_hk_ib	URF	standard HK rate	
2018-12-10	par_sc_ib	URF	1	4
2018-12-10	cal_sc_ib	URF	1	4
2018-12-10	cal_sc_ib	SCF	1	4
2018-12-10	cal_sc_ib	E2K	1	4
2018-12-10	der_sc_ib	URF	N / A	
2018-12-10	der_sc_ib	SCF	AVG	
2018-12-10	der_sc_ib	E2K	AVG	
2018-12-10	der_inf	URF	N / A	
2018-12-10	der_inf	SCF	N / A	
2018-12-10	der_inf		MISSING!!	
2018-12-11	edds_bin	URF	all available	
2018-12-11	raw_hk_ob	URF	standard HK rate	
2018-12-11	cal_hk_ob	URF	standard HK rate	
2018-12-11	par_sc_ob	URF	1	
2018-12-11	cal_sc_ob	URF	1	
2018-12-11	cal_sc_ob	SCF	1	
2018-12-11	cal_sc_ob	E2K	1	
2018-12-11	der_sc_ob	URF	N / A	
2018-12-11	der_sc_ob	SCF	AVG	
2018-12-11	der_sc_ob	E2K	AVG	
2018-12-11	raw_hk_ib	URF	standard HK rate	
2018-12-11	cal_hk_ib	URF	standard HK rate	
2018-12-11	par_sc_ib	URF	1	
2018-12-11	cal_sc_ib	URF	1	
2018-12-11	cal_sc_ib	SCF	1	
2018-12-11	cal_sc_ib	E2K	1	
2018-12-11	der_sc_ib	URF	N / A	
2018-12-11	der_sc_ib	SCF	AVG	
2018-12-11	der_sc_ib	E2K	AVG	
2018-12-11	der_inf	URF	N / A	
2018-12-11	der_inf	SCF	N / A	
2018-12-11	der_inf		MISSING!!	

DATE	CALIBRATION LEVEL	COORDINATES	SAMPLE RATES (Hz)	
2018-12-12	edds_bin	URF	all available	
2018-12-12	raw_hk_ob	URF	standard HK rate	
2018-12-12	cal_hk_ob	URF	standard HK rate	
2018-12-12	par_sc_ob	URF	1	
2018-12-12	cal_sc_ob	URF	1	
2018-12-12	cal_sc_ob	SCF	1	
2018-12-12	cal_sc_ob	E2K	1	
2018-12-12	der_sc_ob	URF	N / A	
2018-12-12	der_sc_ob	SCF		AVG
2018-12-12	der_sc_ob	E2K		AVG
2018-12-12	raw_hk_ib	URF	standard HK rate	
2018-12-12	cal_hk_ib	URF	standard HK rate	
2018-12-12	par_sc_ib	URF	1	
2018-12-12	cal_sc_ib	URF	1	
2018-12-12	cal_sc_ib	SCF	1	
2018-12-12	cal_sc_ib	E2K	1	
2018-12-12	der_sc_ib	URF	N / A	
2018-12-12	der_sc_ib	SCF		AVG
2018-12-12	der_sc_ib	E2K		AVG
2018-12-12	der_inf	URF	N / A	
2018-12-12	der_inf	SCF	N / A	
2018-12-12	der_inf		MISSING!!	
2018-12-13	edds_bin	URF	all available	
2018-12-13	raw_hk_ob	URF	standard HK rate	
2018-12-13	cal_hk_ob	URF	standard HK rate	
2018-12-13	par_sc_ob	URF	1	
2018-12-13	cal_sc_ob	URF	1	
2018-12-13	cal_sc_ob	SCF	1	
2018-12-13	cal_sc_ob	E2K	1	
2018-12-13	der_sc_ob	URF	N / A	
2018-12-13	der_sc_ob	SCF		AVG
2018-12-13	der_sc_ob	E2K		AVG
2018-12-13	raw_hk_ib	URF	standard HK rate	
2018-12-13	cal_hk_ib	URF	standard HK rate	
2018-12-13	par_sc_ib	URF	1	
2018-12-13	cal_sc_ib	URF	1	
2018-12-13	cal_sc_ib	SCF	1	
2018-12-13	cal_sc_ib	E2K	1	
2018-12-13	der_sc_ib	URF	N / A	
2018-12-13	der_sc_ib	SCF		AVG
2018-12-13	der_sc_ib	E2K		AVG
2018-12-13	der_inf	URF	N / A	
2018-12-13	der_inf	SCF	N / A	
2018-12-13	der_inf		MISSING!!	

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DATE	CALIBRATION LEVEL	COORDINATES	SAMPLE RATES (Hz)	
2018-12-14	edds_bin	URF	all available	
2018-12-14	raw_hk_ob	URF	standard HK rate	
2018-12-14	cal_hk_ob	URF	standard HK rate	
2018-12-14	par_sc_ob	URF	1	
2018-12-14	cal_sc_ob	URF	1	
2018-12-14	cal_sc_ob	SCF	1	
2018-12-14	cal_sc_ob	E2K	1	
2018-12-14	der_sc_ob	URF	N / A	
2018-12-14	der_sc_ob	SCF		AVG
2018-12-14	der_sc_ob	E2K		AVG
2018-12-14	raw_hk_ib	URF	standard HK rate	
2018-12-14	cal_hk_ib	URF	standard HK rate	
2018-12-14	par_sc_ib	URF	1	
2018-12-14	cal_sc_ib	URF	1	
2018-12-14	cal_sc_ib	SCF	1	
2018-12-14	cal_sc_ib	E2K	1	
2018-12-14	der_sc_ib	URF	N / A	
2018-12-14	der_sc_ib	SCF		AVG
2018-12-14	der_sc_ib	E2K		AVG
2018-12-14	der_inf	URF	N / A	
2018-12-14	der_inf	SCF	N / A	
2018-12-14	der_inf		MISSING!!	