

# ASCAT DAILY Report

**Metop-B**

**OPE**

**DAY 2019\_093**

**20190403000000 - 20190403235959**

## DATA STATISTICS

BASED ON ORBITS (#14)

33930 33931 33932 33933 33934 33935 33936 33937 33938 33939 33940 33941 33942  
33943 33944

DB STATISTICS : OPE M01\_20190403

SMO 480	1.23	.41	.74	5.46
SMR 480	3.27	.76	2.23	7.08
SZF 480	.38	1.49	.14	21.57
xxx 480	9.65	3.04	6.78	27.37

INGATE (STORE) STATISTICS : OPE M01\_20190403

xxx_1A	/fbf/tcdras/store/gsl/ASCA_xxx_1A_M01	-- number of files (xxx_1A) : 480
SZO_1B	/fbf/tcdras/store/gsl/ASCA_SZO_1B_M01	-- number of files (SZO_1B) : 480
SZR_1B	/fbf/tcdras/store/gsl/ASCA_SZR_1B_M01	-- number of files (SZR_1B) : 480
SZF_1B	/fbf/tcdras/store/gsl/ASCA_SZF_1B_M01	-- number of files (SZF_1B) : 480
SMO_02	/fbf/tcdras/store/gsl/ASCA_SMO_02_M01	-- number of files (SMO_02) : 480
SMR_02	/fbf/tcdras/store/gsl/ASCA_SMR_02_M01	-- number of files (SMR_02) : 480

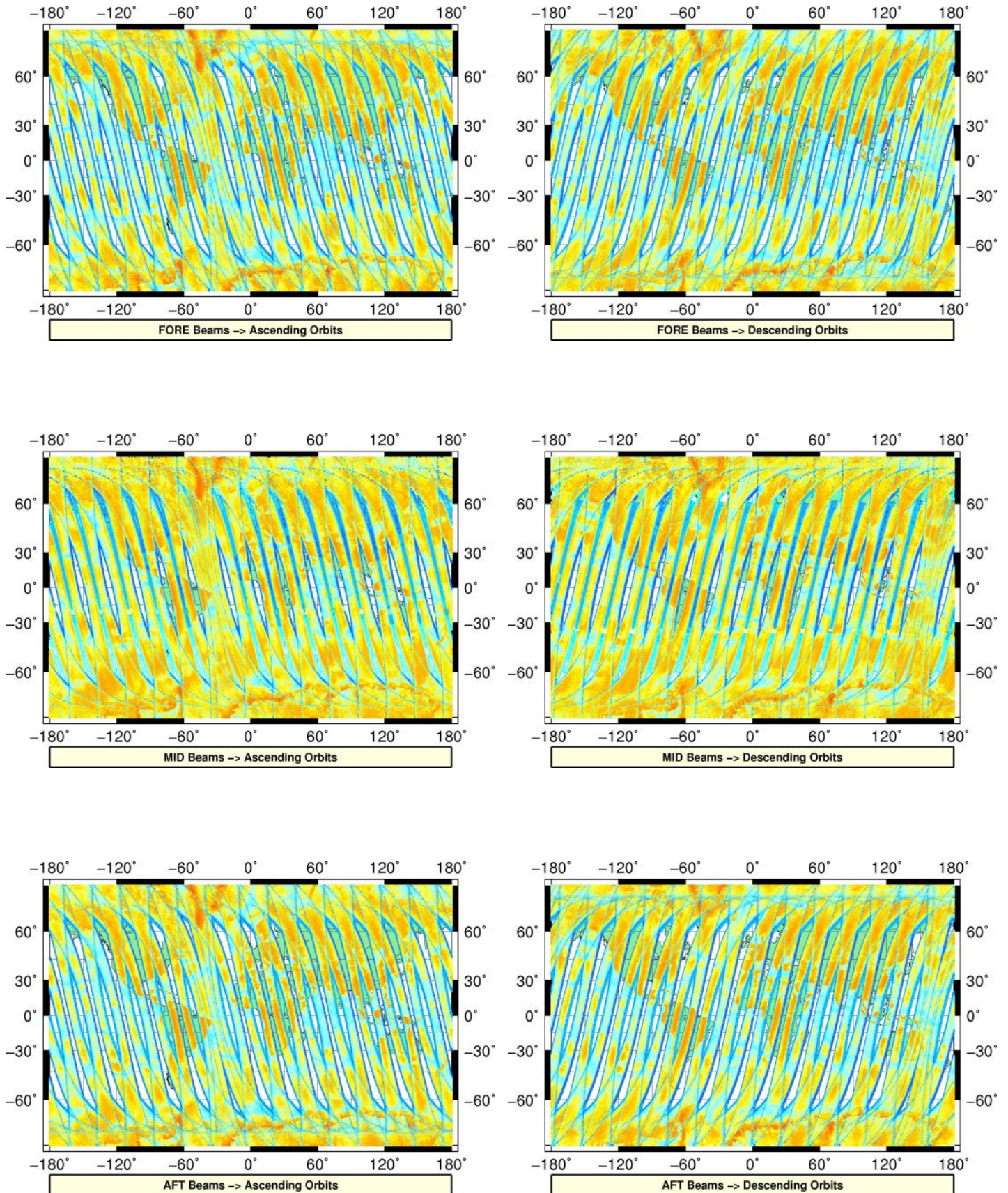
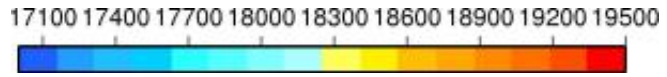
# Overview

## Configuration and SPHR content

Parameter	Value
SENSING START-STOP	20190403000000 - 20190403235959
ORBIT START-STOP	-
SATELLITE	M01
SW - DPU Version	3.9 (57)
SW - ICU Version	2.03 (35)
PARAM - Drive Level ID	0 (Nominal drive level as defined in the active DPU Data Set)
PARAM - DPU Data Set ID	2
PARAM - Revision ID	14
INST - Table Set ID	0 (no calibration, nominal table set used)
INST - Redundancy Config	127
	nominal ICU
	nominal DPU
	nominal RFU
	nominal HPA
	nominal SFE
	nominal SFE LNA
	nominal signal path (from HPA_B)
N_L1A_MDR	610398
N_L1A_MDR_B0	101733
N_L1A_MDR_B1	101733
N_L1A_MDR_B2	101733
N_L1A_MDR_B3	101733
N_L1A_MDR_B4	101733
N_L1A_MDR_B5	101733
N_GAPS	0
TOTAL_GAPS_SIZE	0
N_HKTM_PACKETS_RECEIVED	16121
N_F_NOISE	0
N_F_PG	0
N_V_PG	0
N_F_FILTER	0
N_V_FILTER	0
N_F_PGP	0
N_F_NP	0
N_F_ORBIT	0
N_F_ATTITUDE	0
N_F_OMEGA	0
N_F_MAN	0
N_F_OSV	0
N_F_E_TEL_PRES	0
N_F_E_TEL_IR	0
N_F_CE	0
N_V_CE	0
N_F_OA	0
N_F_TEL	0
N_F_REF	0
N_F_SA	1054494
N_F_LAND	49419469
N_F_GEO	3306594
N_F_SIGN	0
N_L1B_MDR	0
N_EMPTY_S0_TRIP	0
N_L1B_MDR_F	0
N_EMPTY_S0_TRIP_F	0
N_L1B_MDR_M	0

# L1A Product

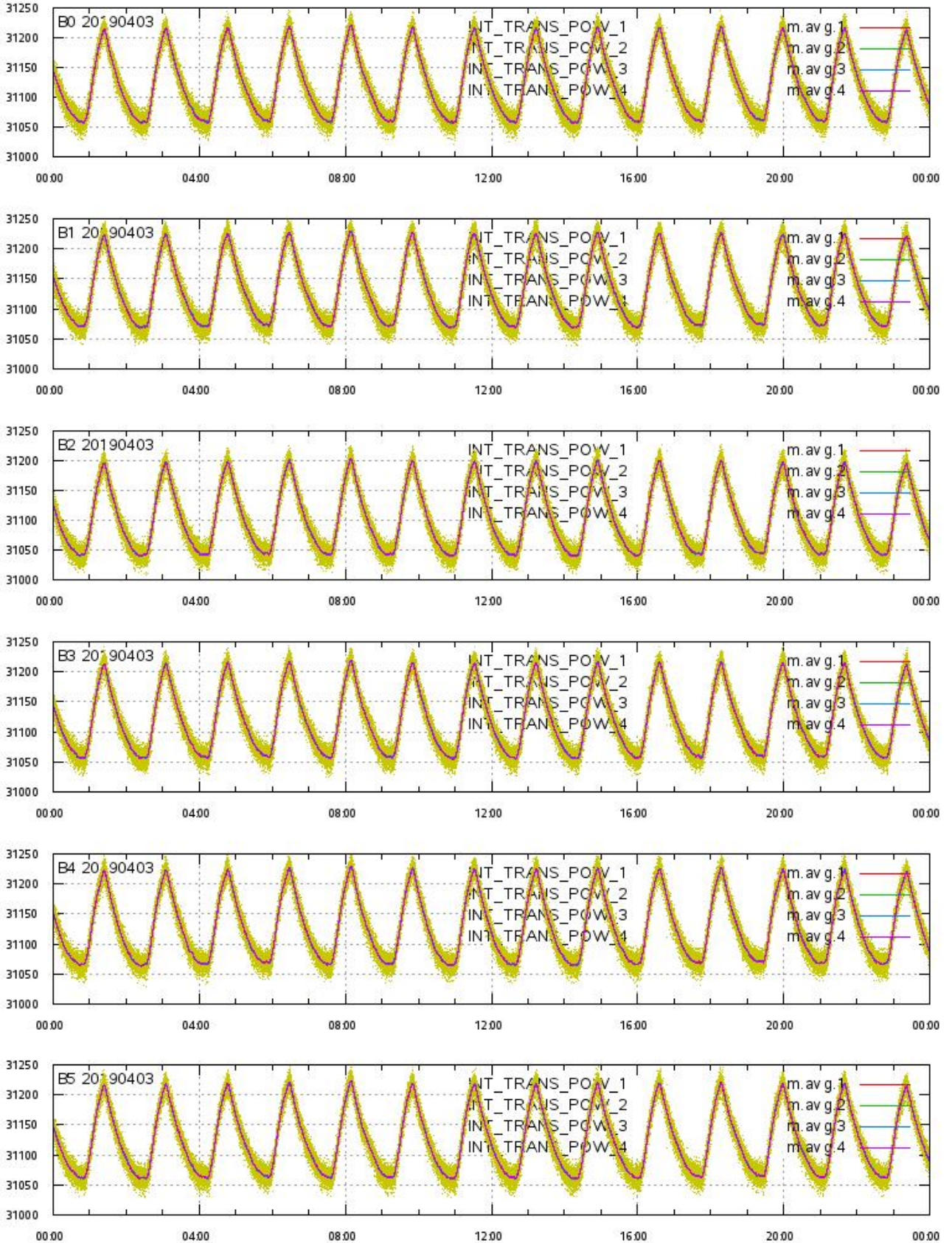
## Echo Data Coverage maps





# L1A Product

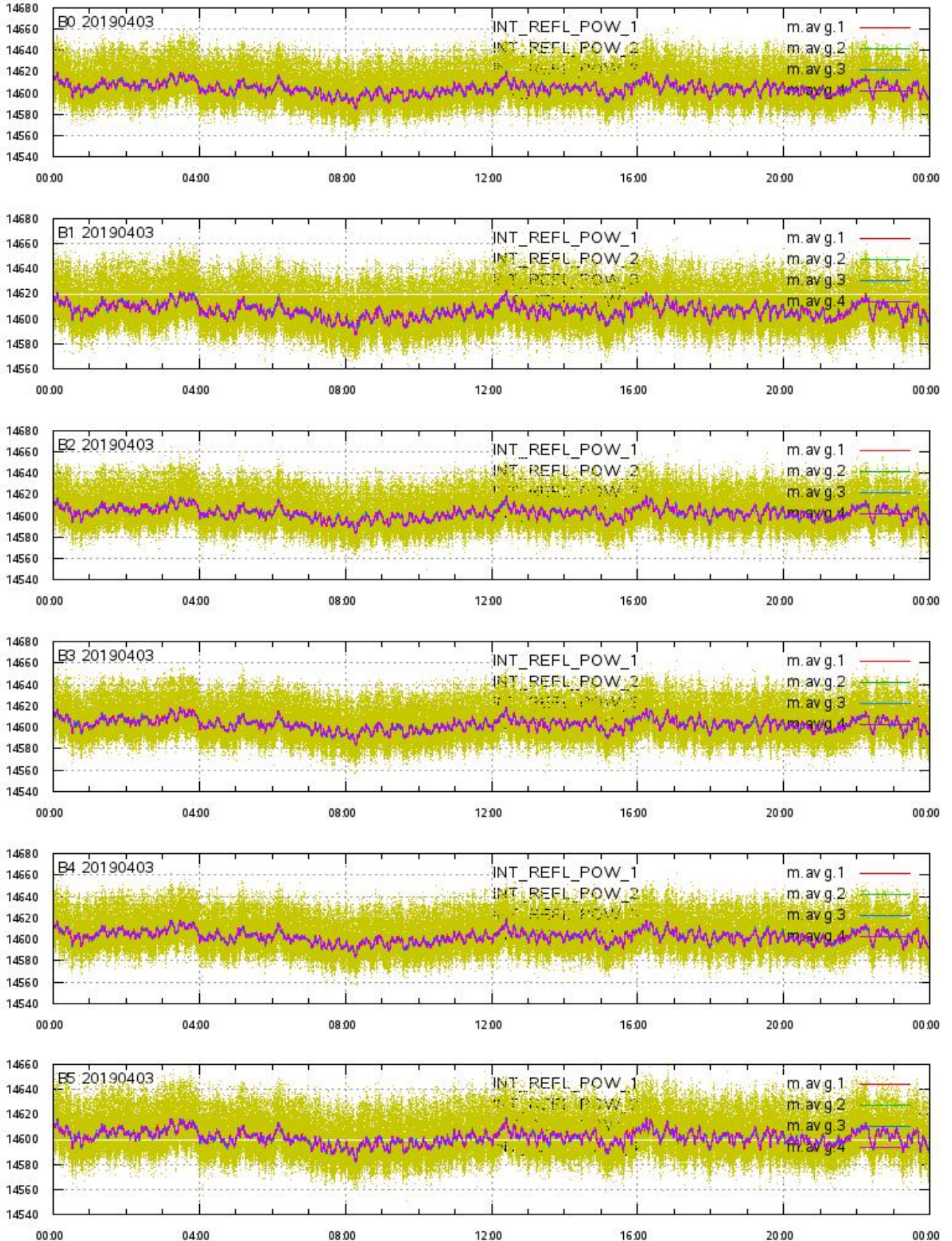
## Integrated Transmitted Powers 1-4 per beam 0-5 vs. UTC\_LOCALISATION





# L1A Product

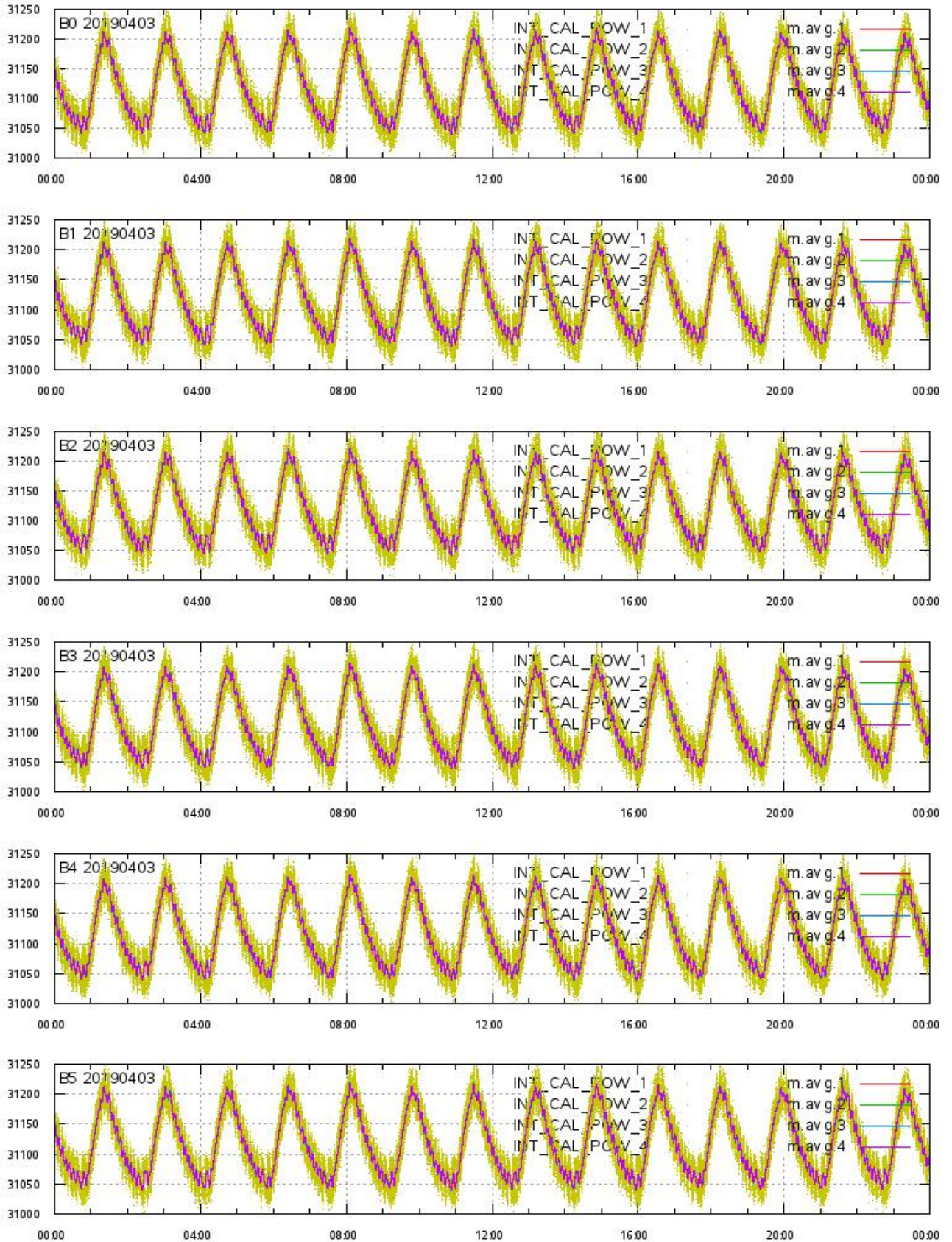
## Integrated Reflected Powers 1-4 per beam 0-5 vs. UTC\_LOCALISATION





# L1A Product

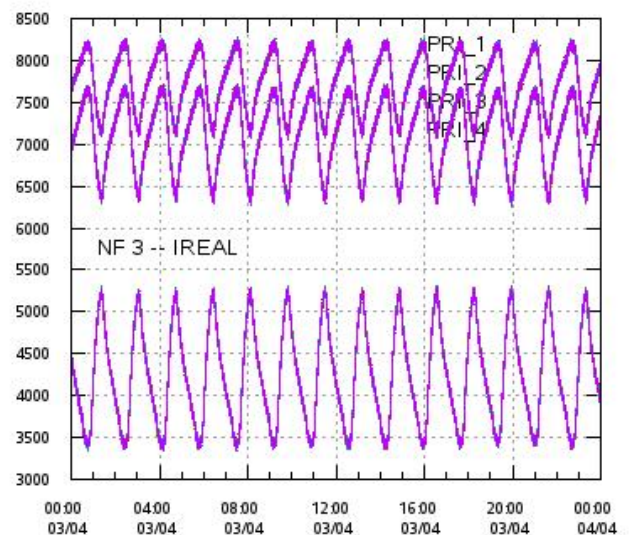
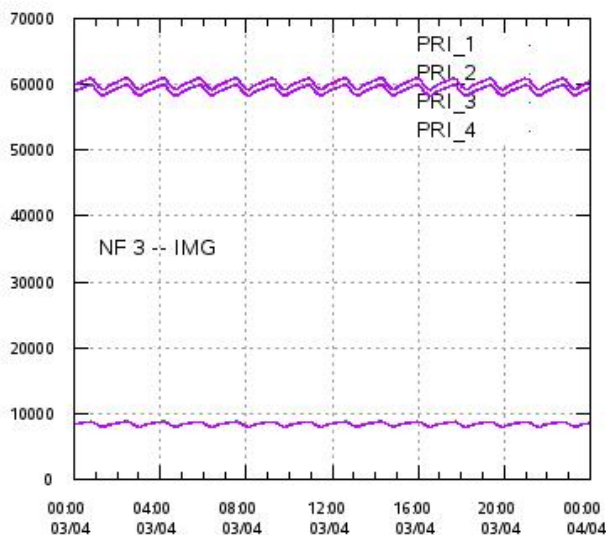
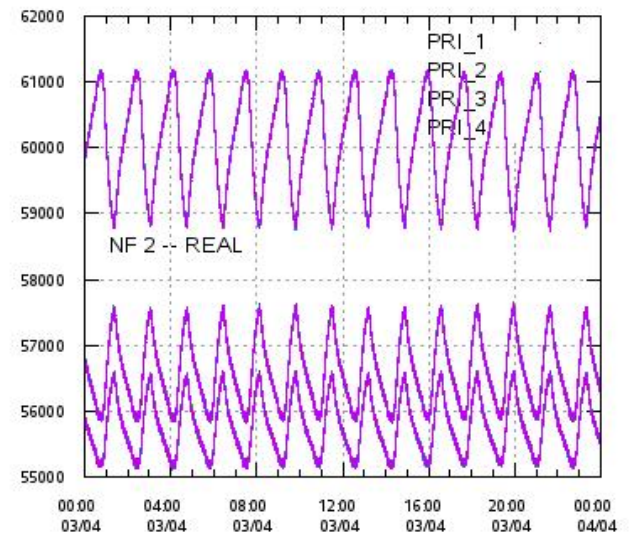
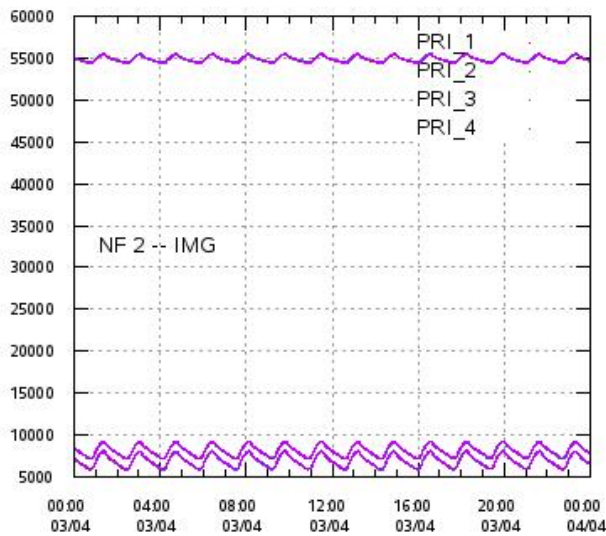
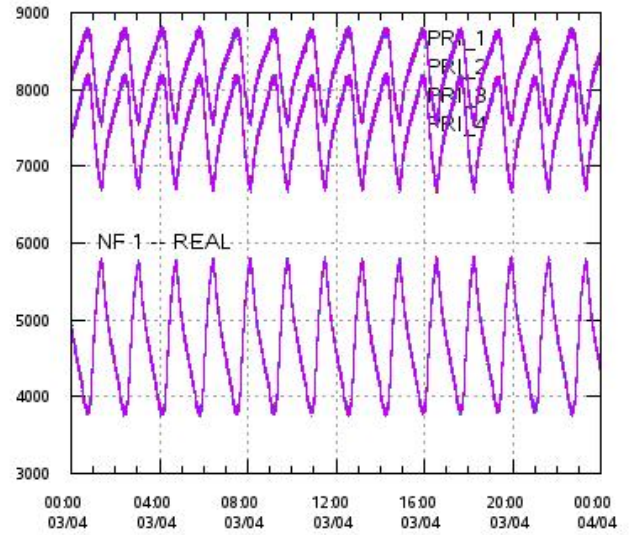
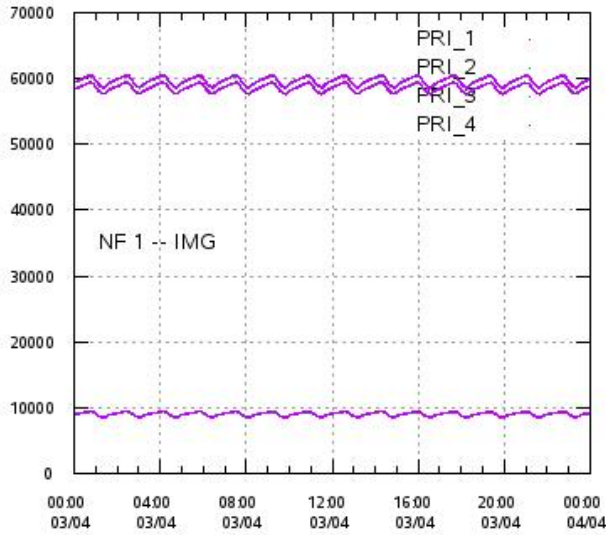
## Integrated Calibration Powers 1-4 per beam 0-5 vs. UTC\_LOCALISATION





# L1A Product

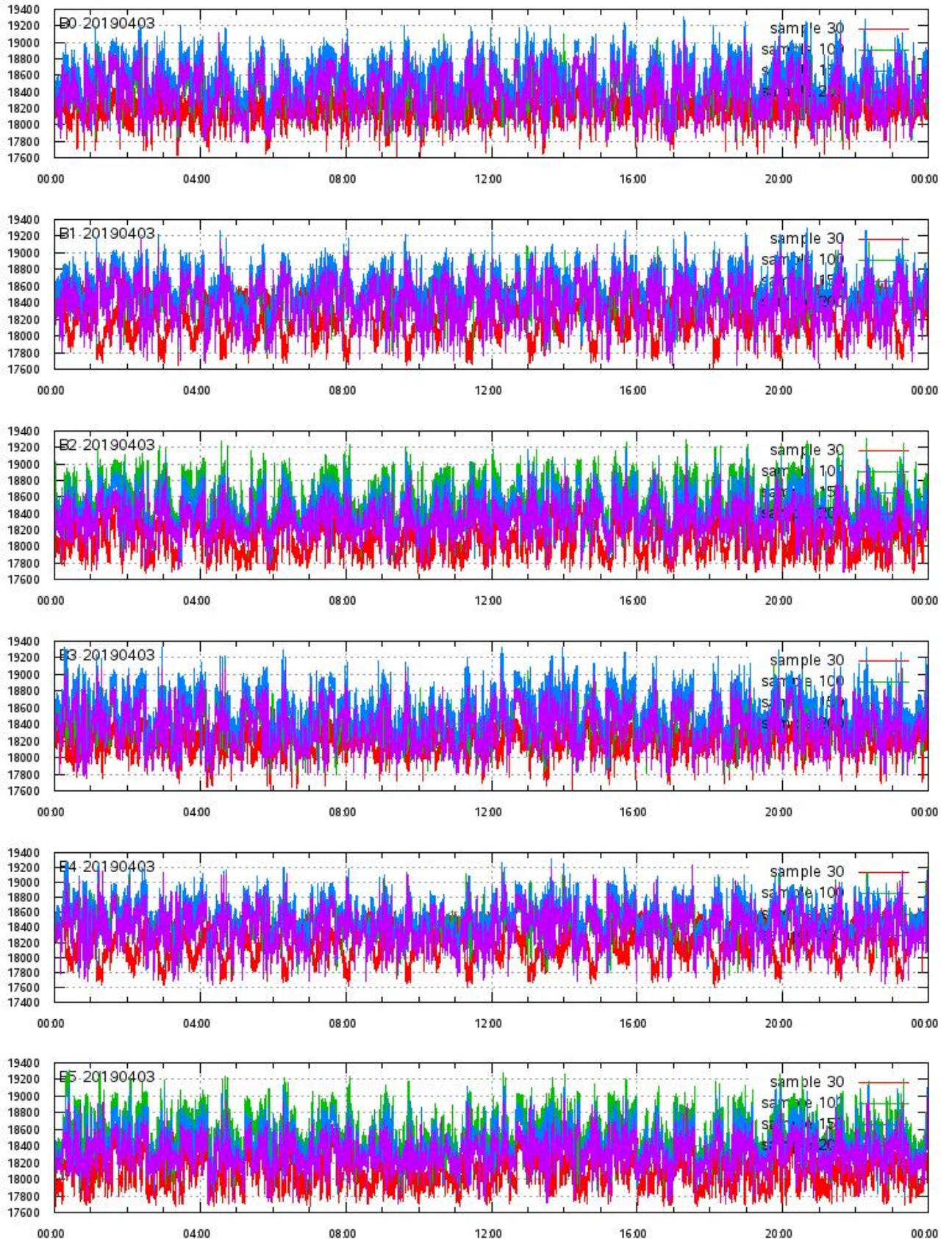
## Calibration Powers vs. UTC\_LOCALISATION





# L1A Product

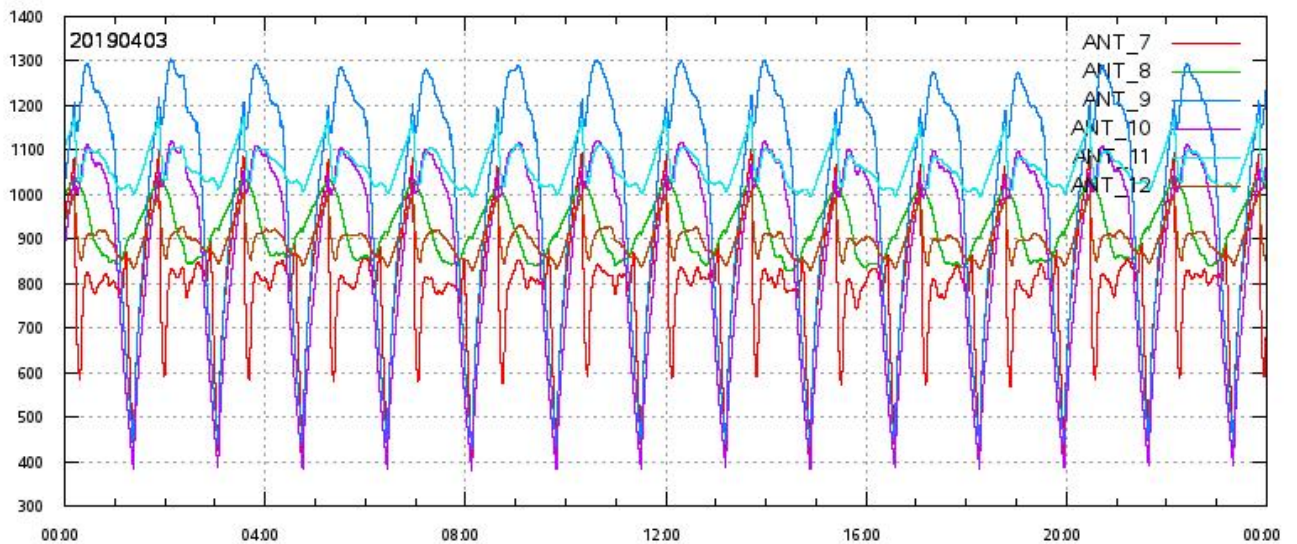
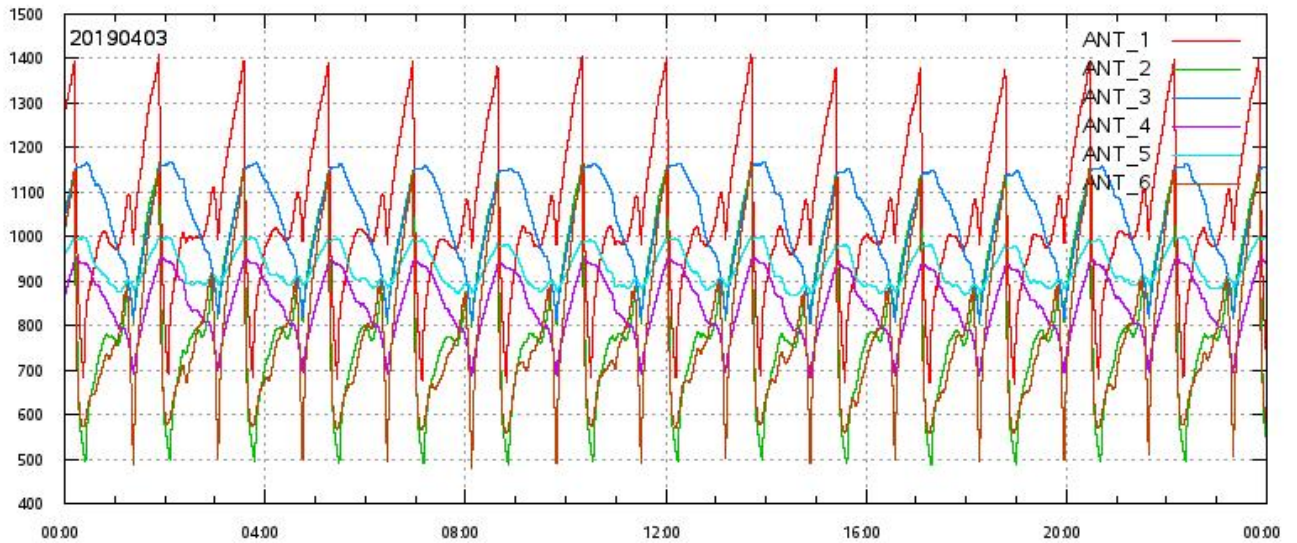
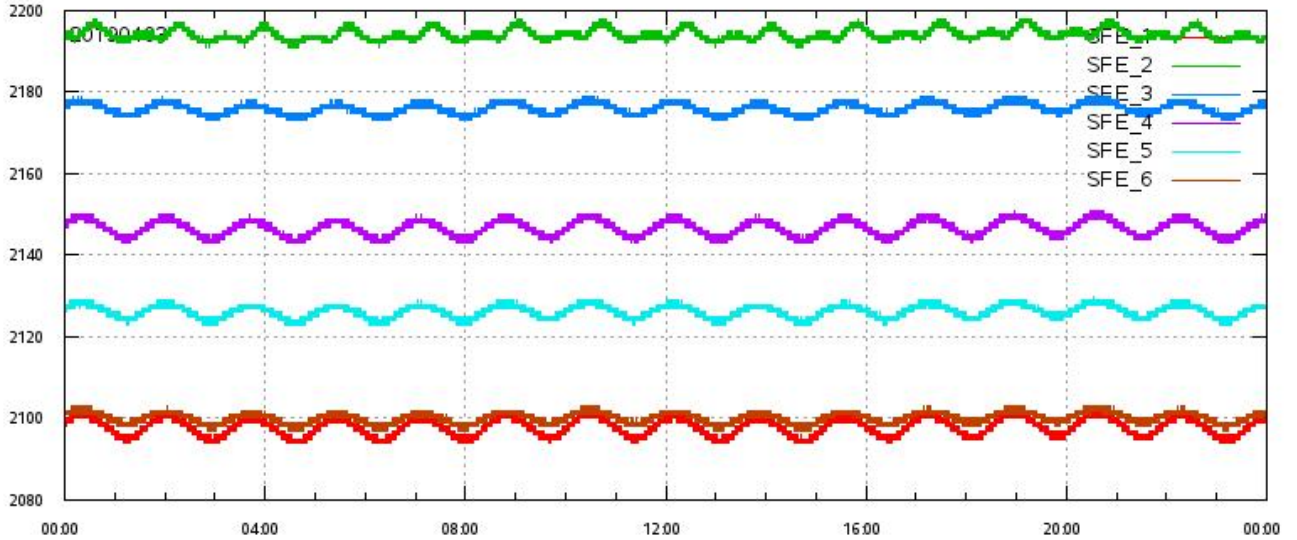
ECHO DATA (raw) for samples 30, 100, 150 and 200 vs. UTC\_LOCALISATION





# L1A Product

SFE & ANT Temperatures (raw) vs. UTC\_LOCALISATION

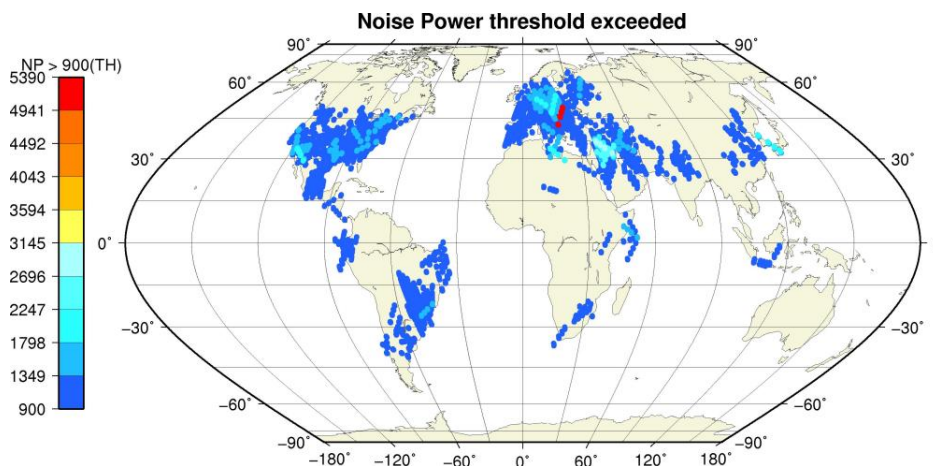
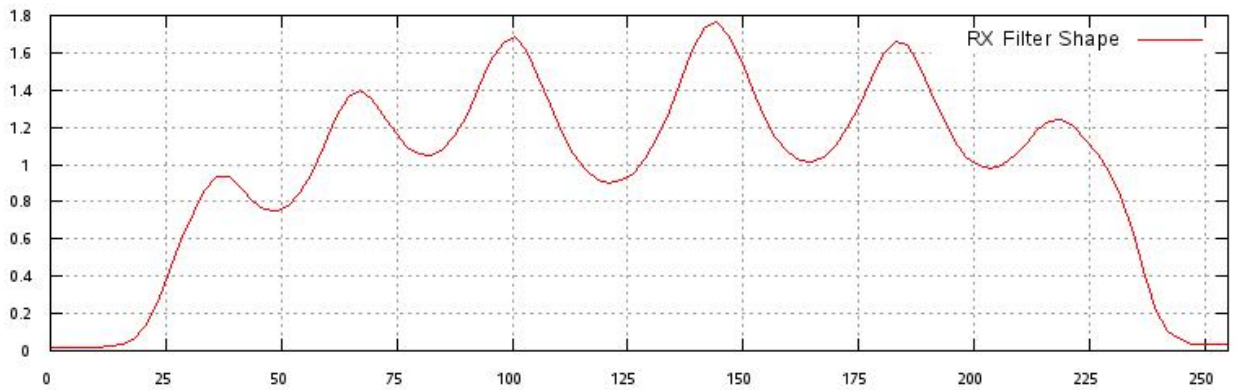
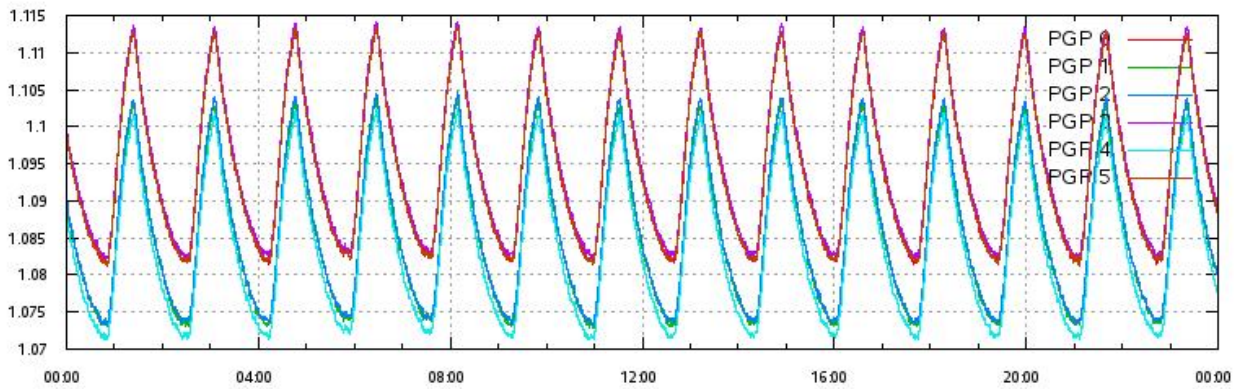
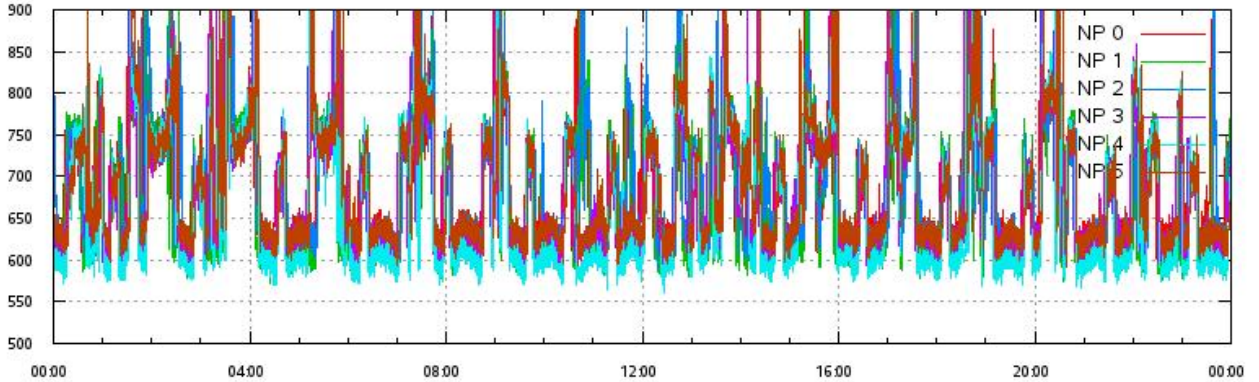


# L1A Product

Noise Power & Power Gain Product per beam 0-5 vs. UTC\_LOCALISATION

RX Filter Shape average over sample number

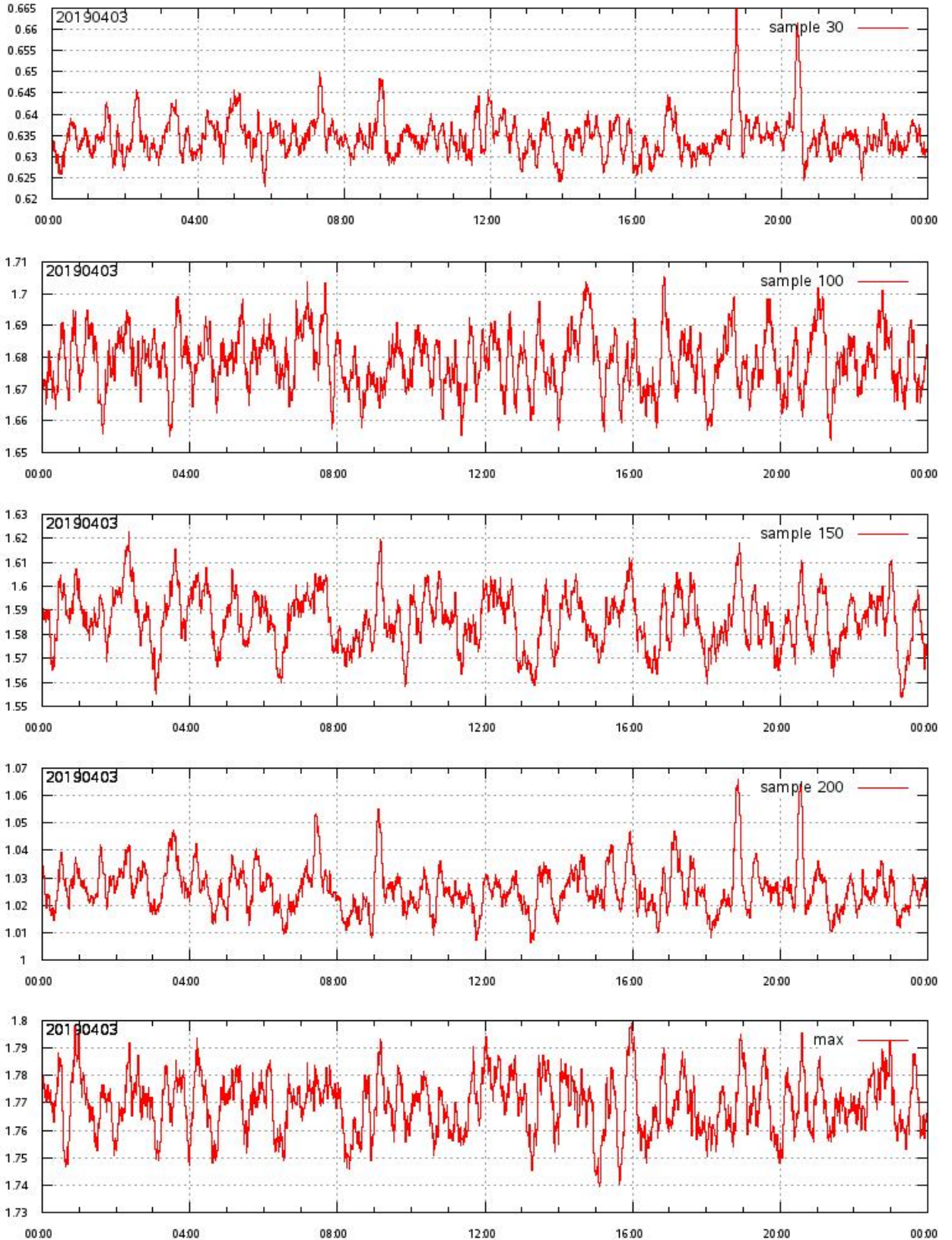
Noise Power threshold exceeded (TH=900) on map





# L1A Product

RX filter shape in detail for sample 30,100,150, 200 & max vs. UTC\_LOCALISATION

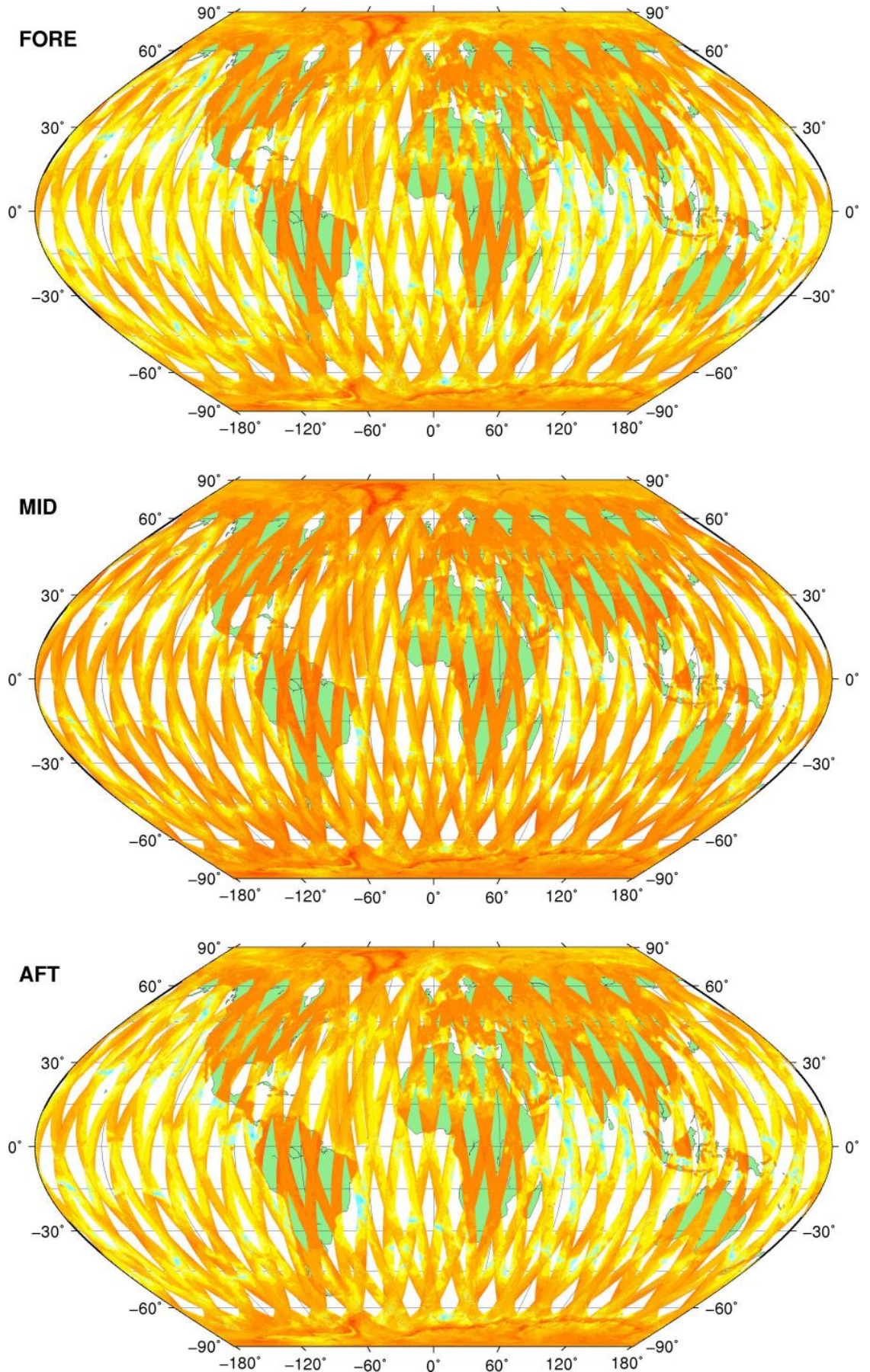




# SZO Product

Sigma0\_TRIP Coverage map

## SIGMA0\_TRIP Coverage



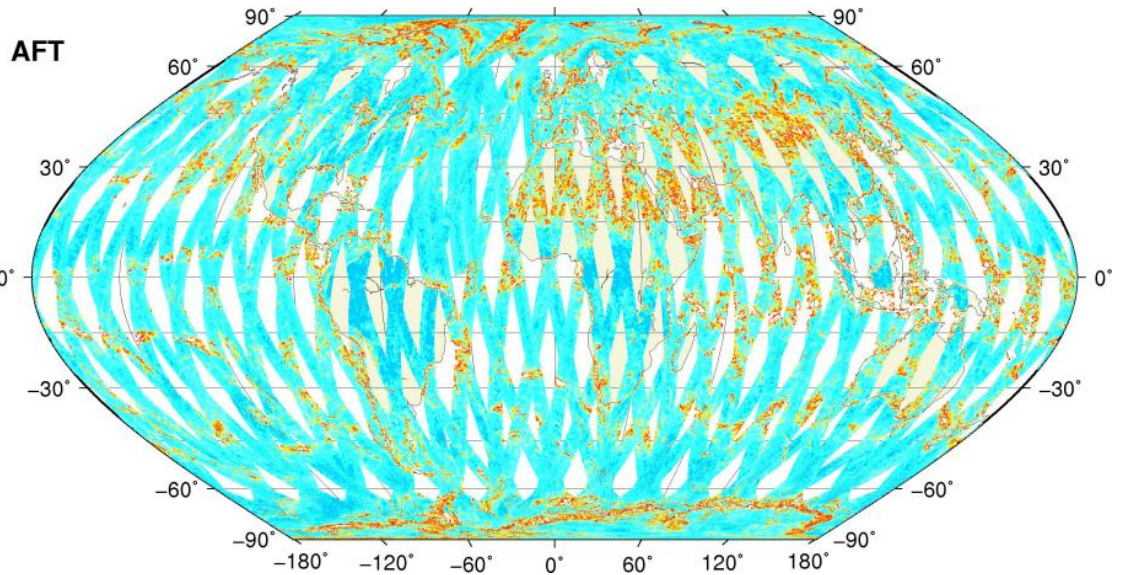
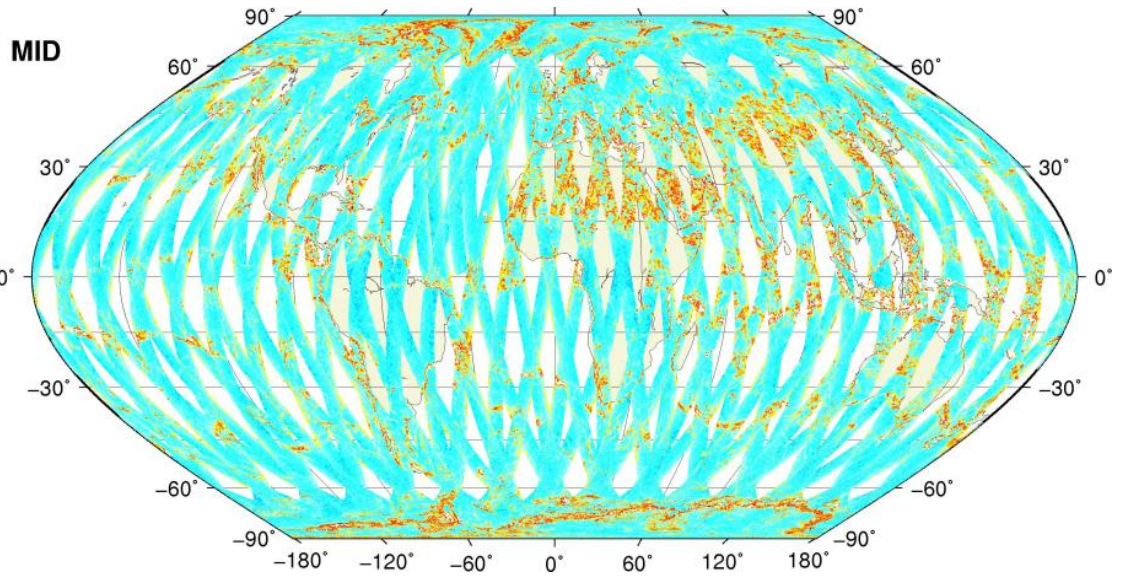
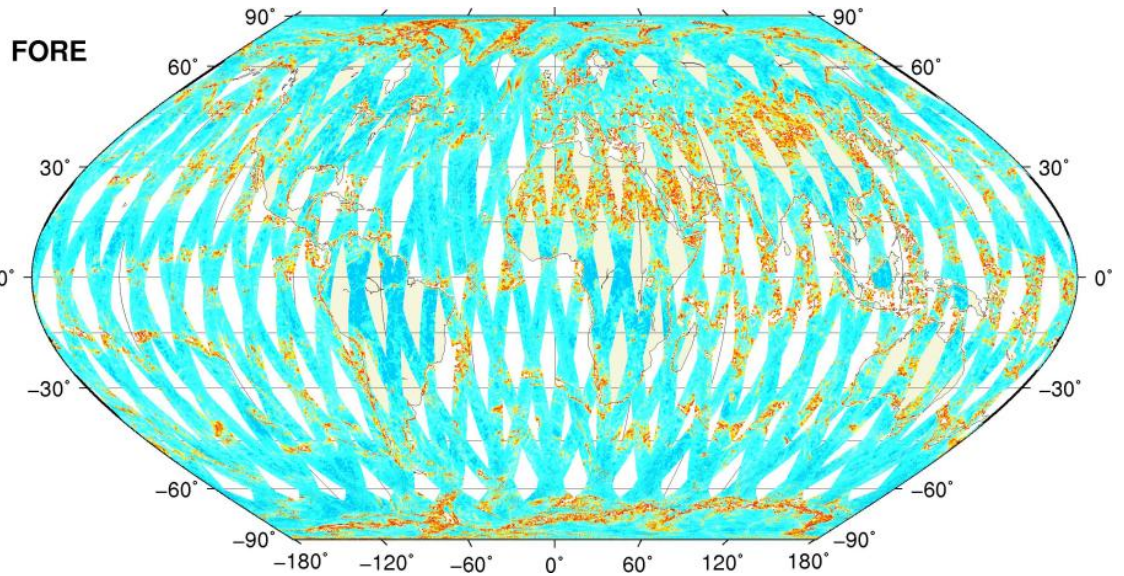


# SZO Product

## Kp Coverage map

### Kp Coverage

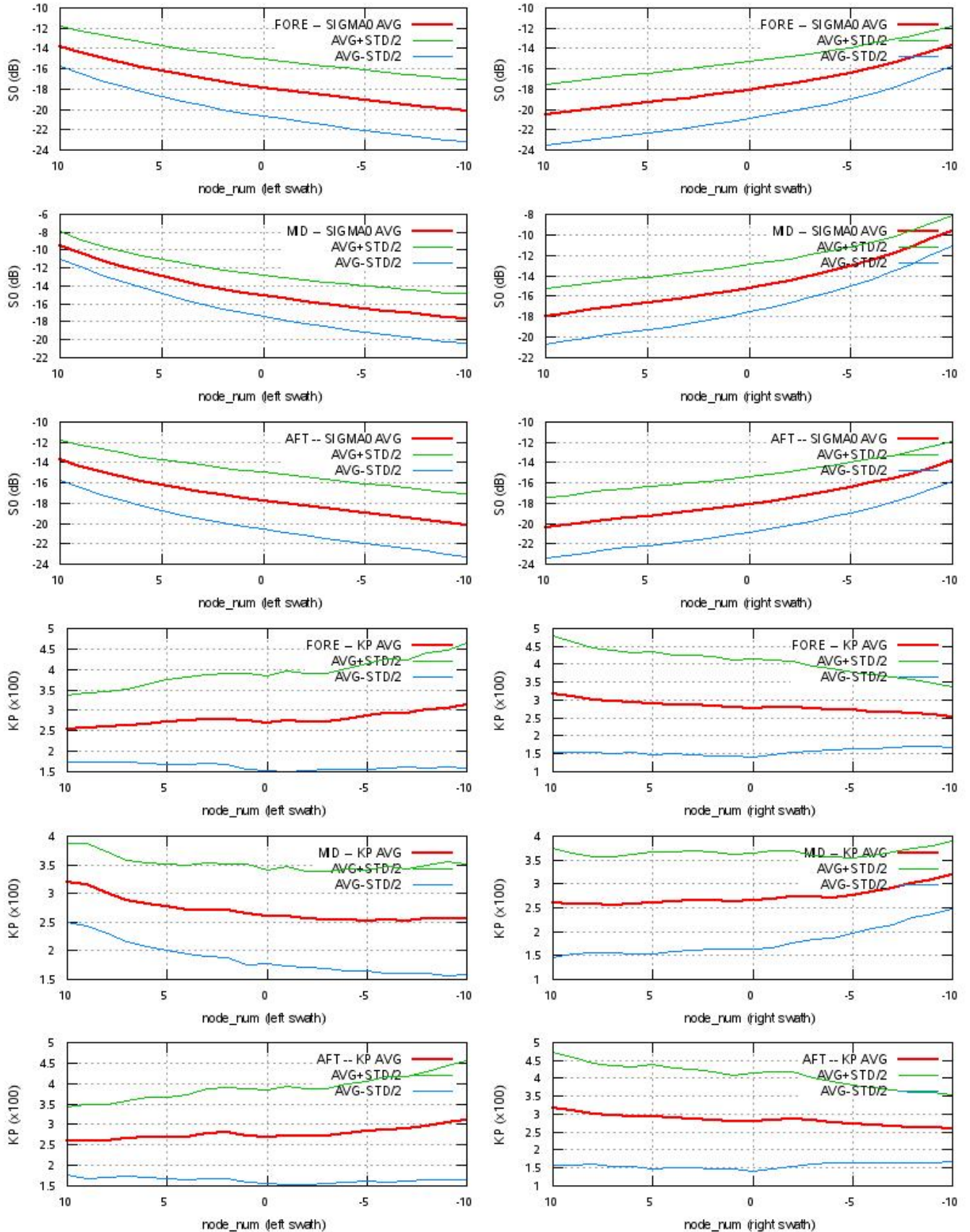
0.00 0.01 0.02 0.03 0.04 0.05 0.06





# SZO Product

## S0 - Kp Statistics





# SZO Product

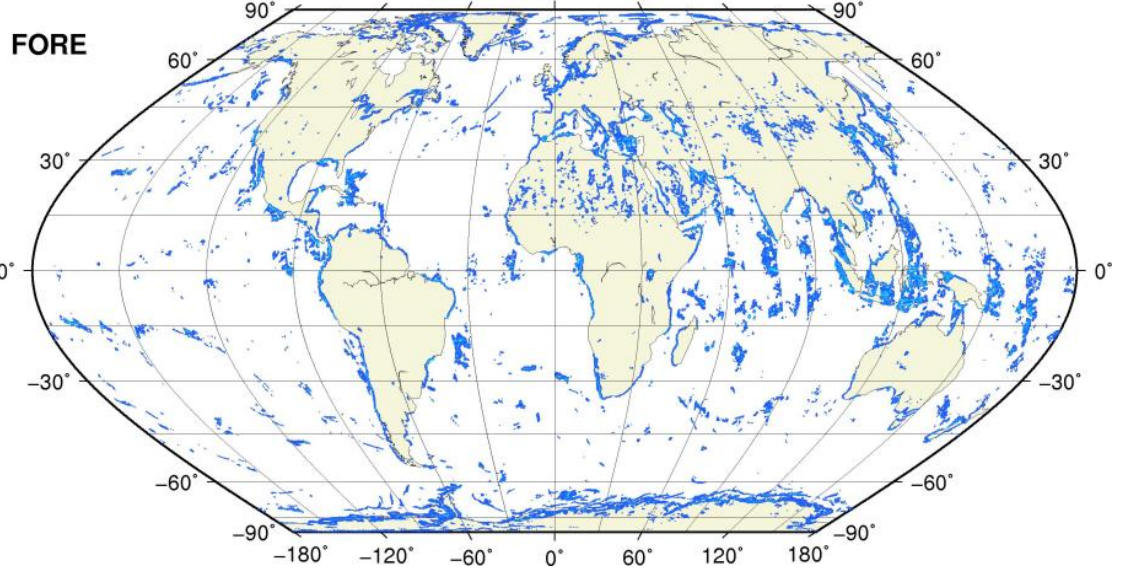
Kp Outliers on map

$0.06 < Kp < 1.0$

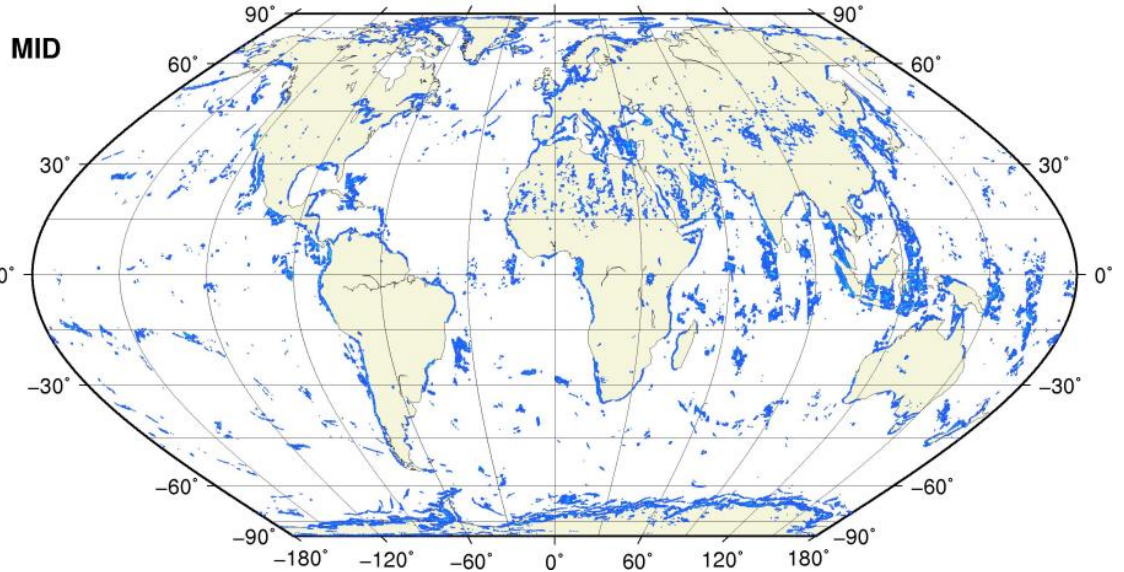
0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0



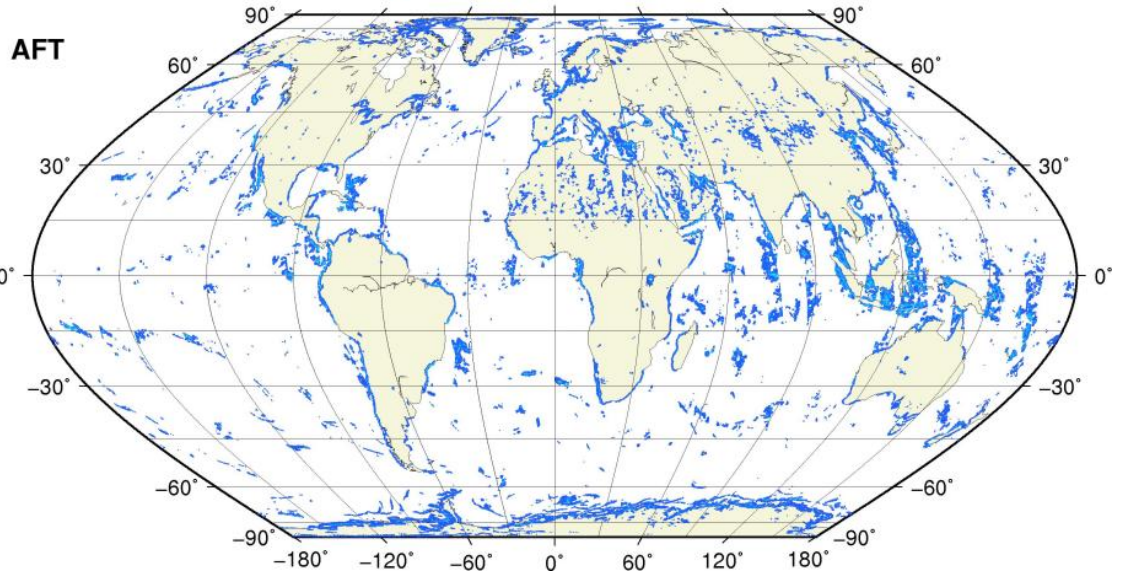
● KP = 1.0 #rec=0



● KP = 1.0 #rec=0



● KP = 1.0 #rec=0

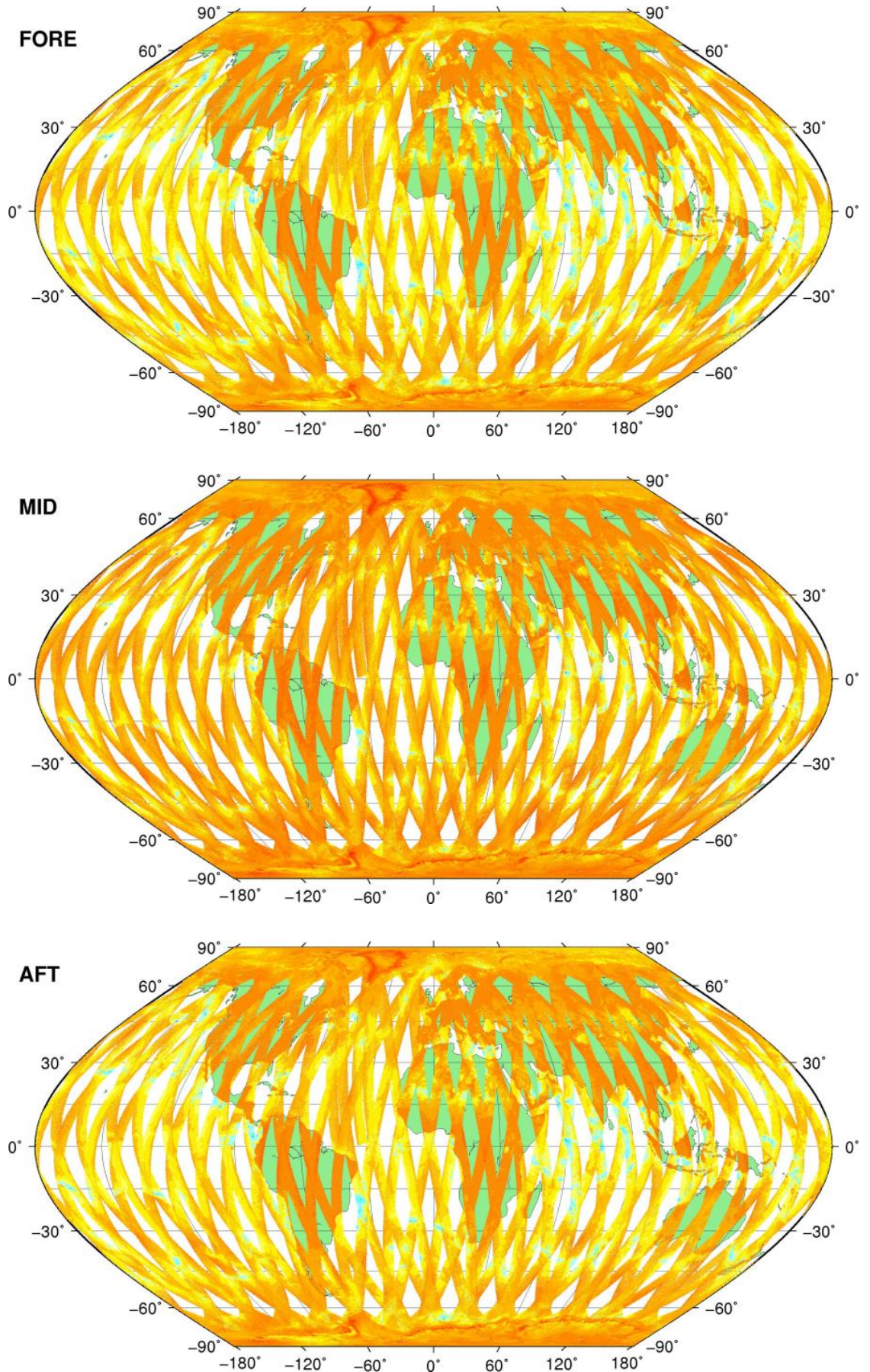




# SZR Product

Sigma0\_TRIP Coverage map

## SIGMA0\_TRIP Coverage

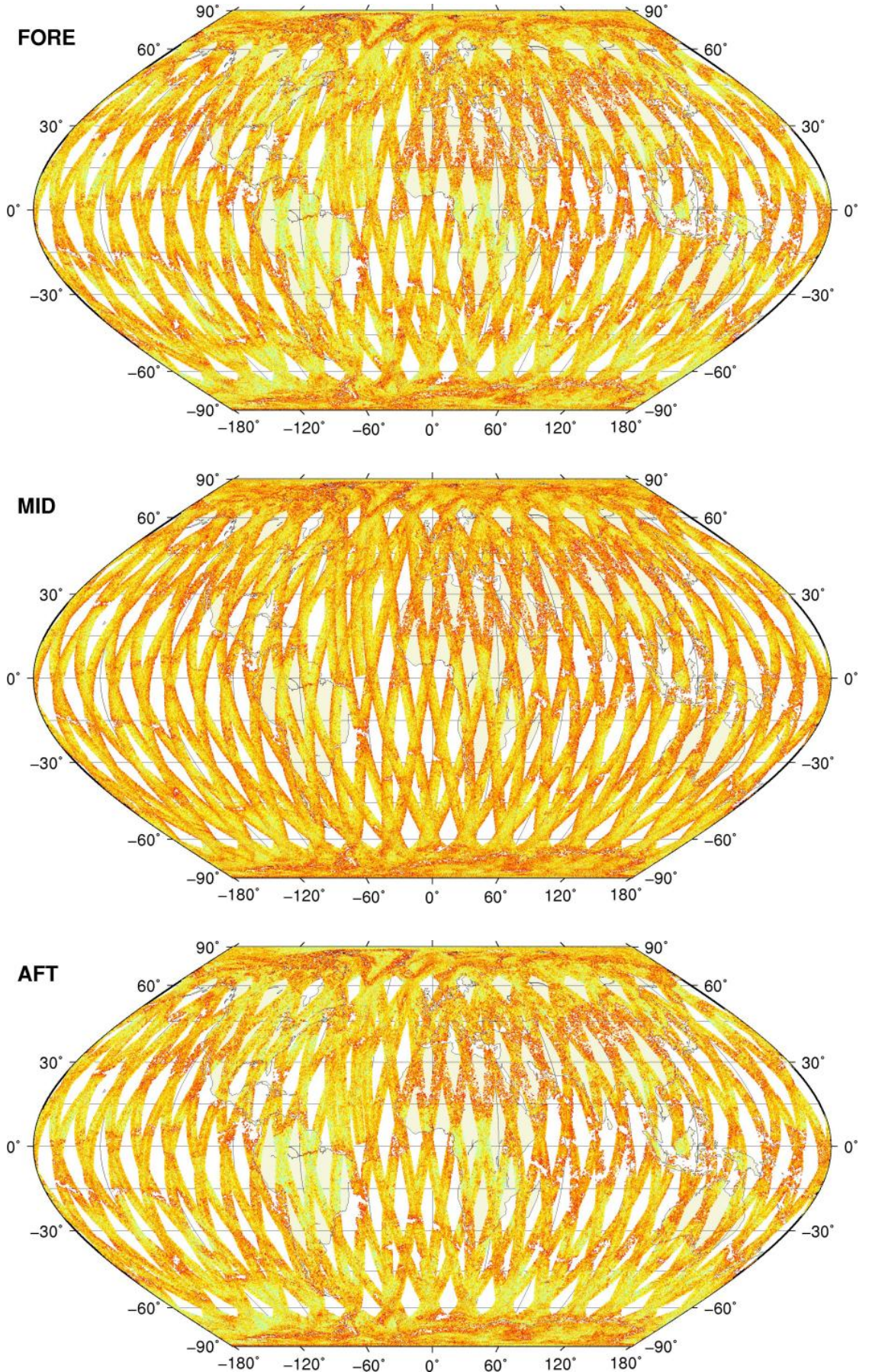
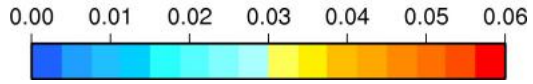




# SZR Product

Kp Coverage map

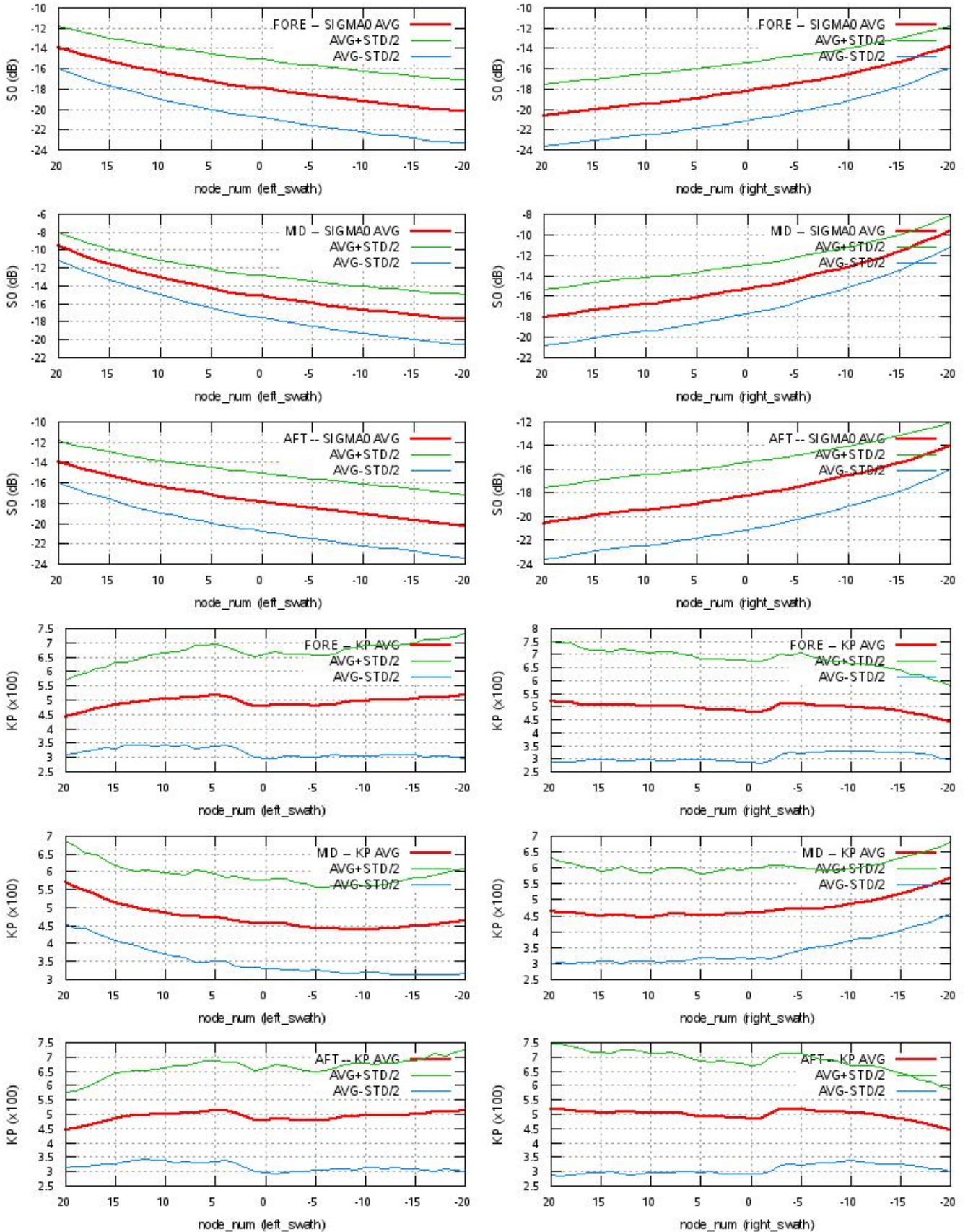
## Kp Coverage





# SZR Product

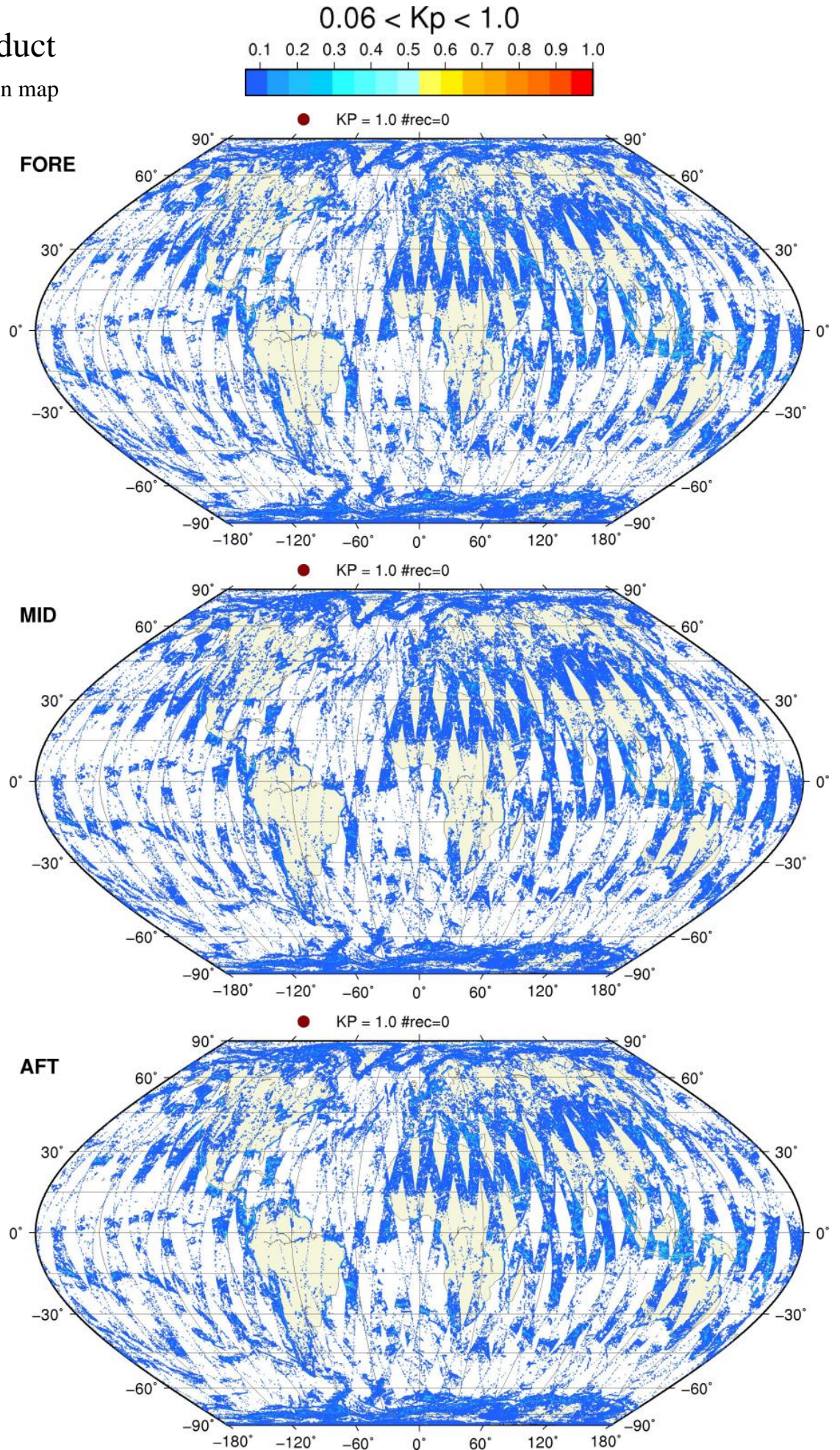
## S0 - Kp Statistics





# SZR Product

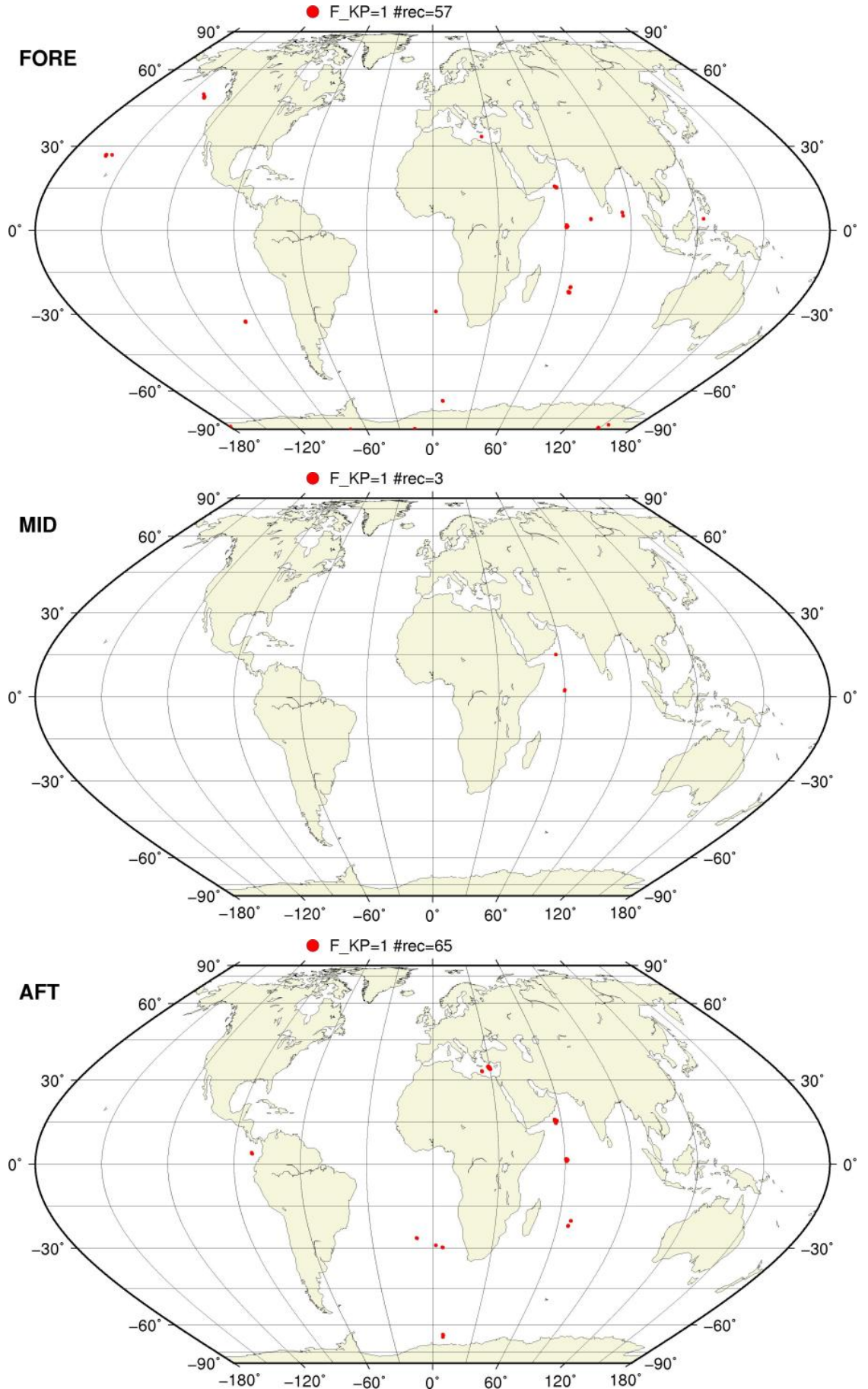
Kp Outliers on map





# SZO Flagged Data Coverage

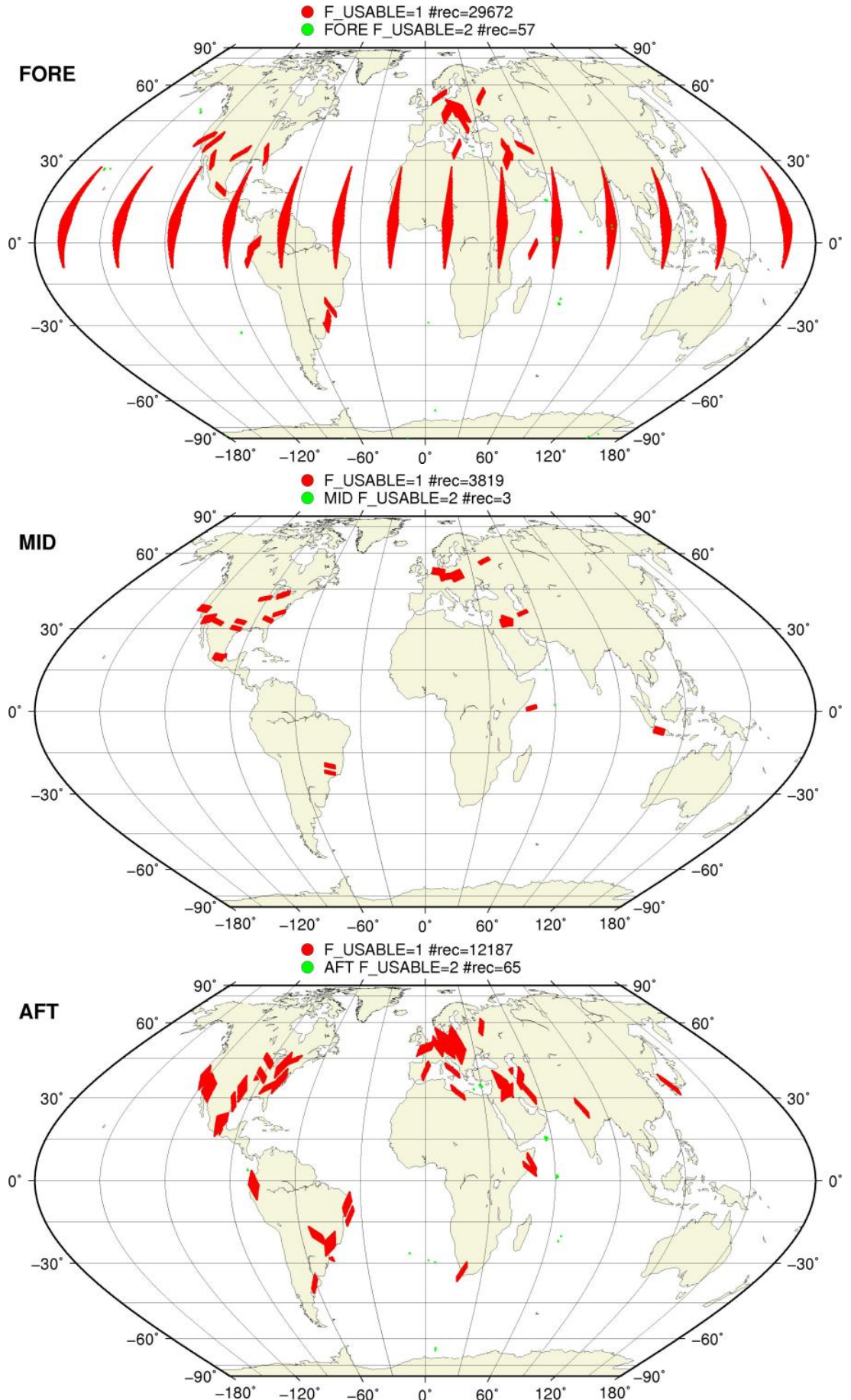
F\_KP = 1 on map





# SZO Flagged Data Coverage

F\_USABLE = 1 or 2 on map



# SZO Flagged Data Coverage

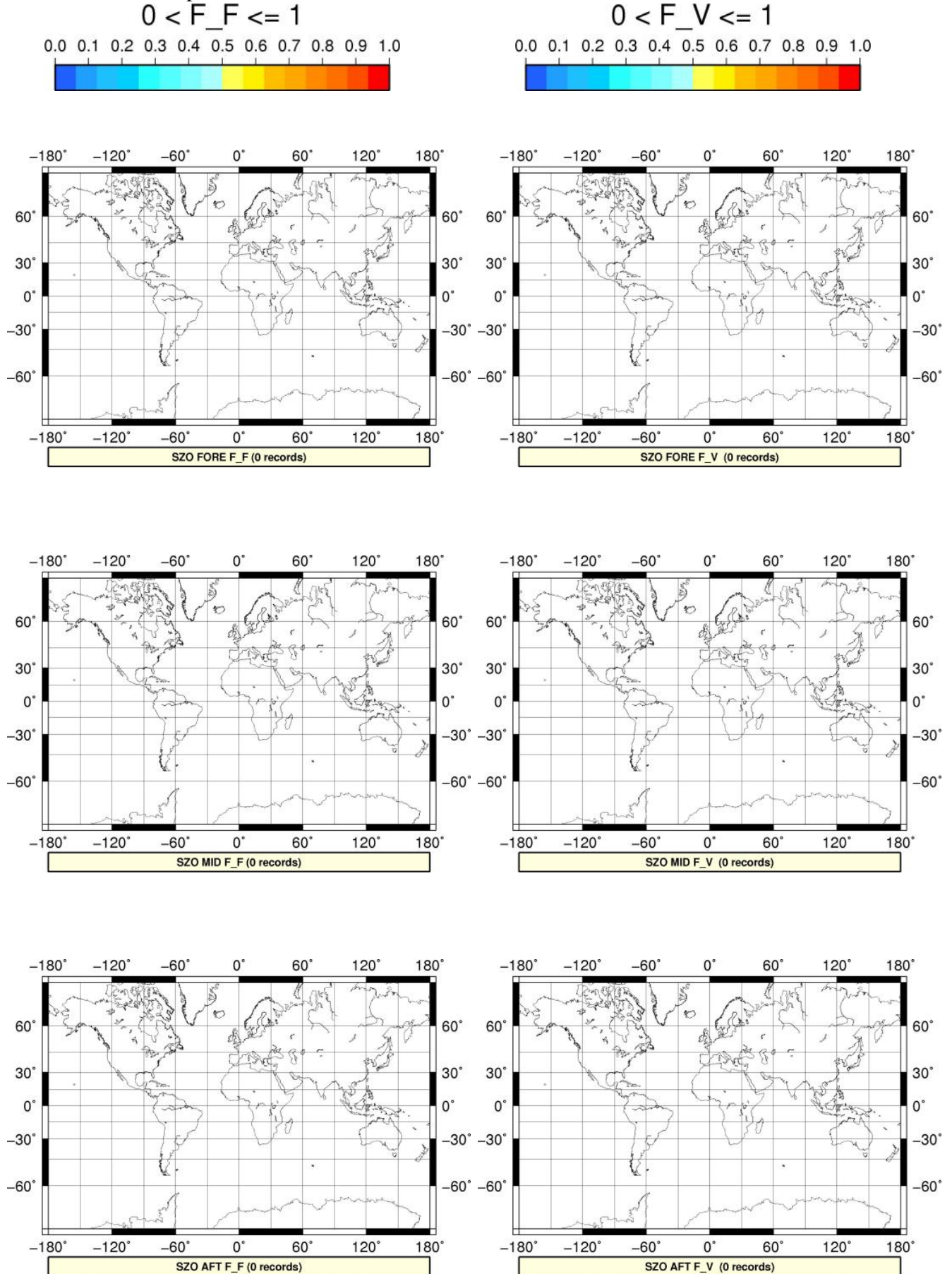
$0 < F_{OA} \leq 1$  on map





# SZO Flagged Data Coverage

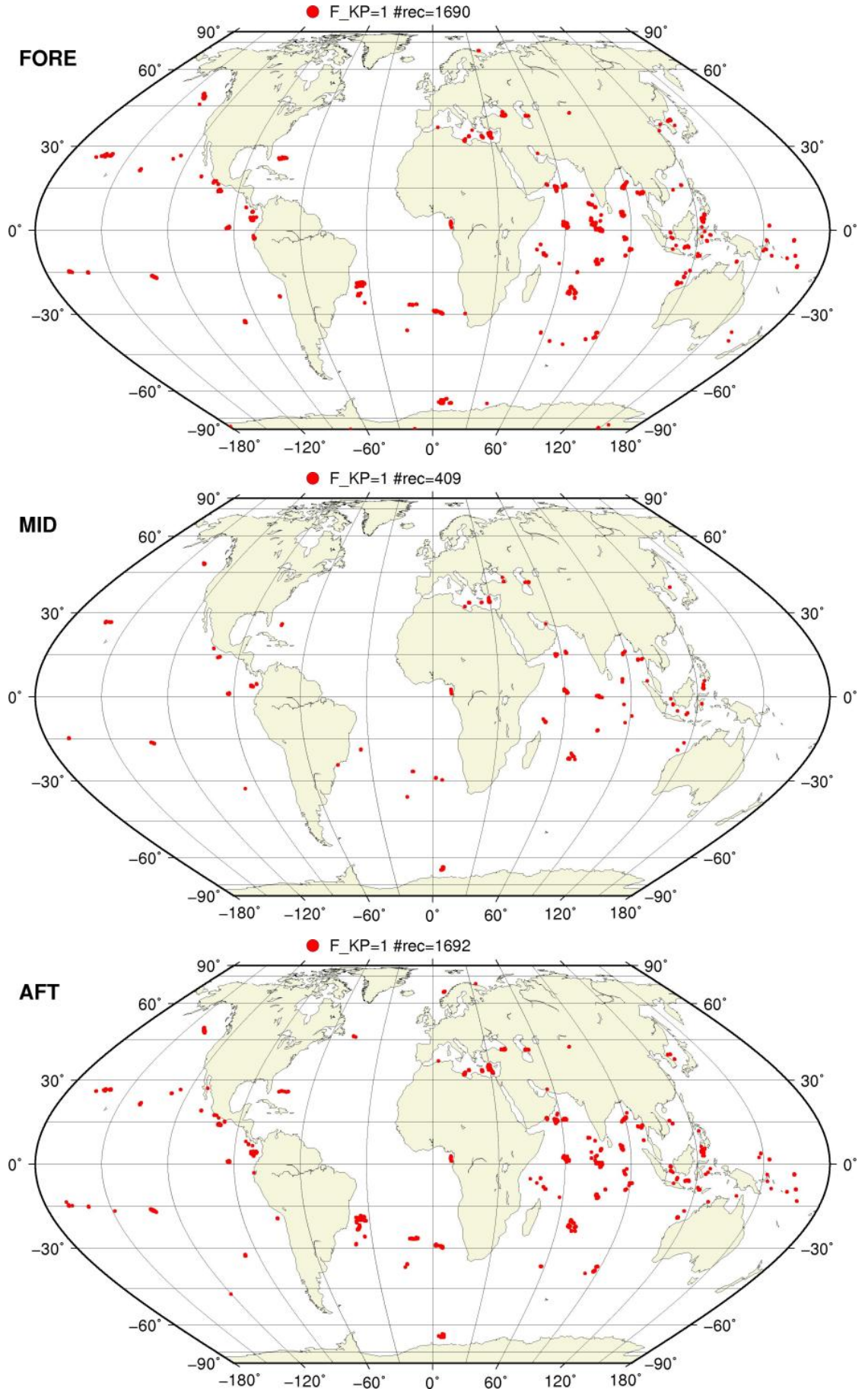
$0 < F_{F/V} \leq 1$  on map





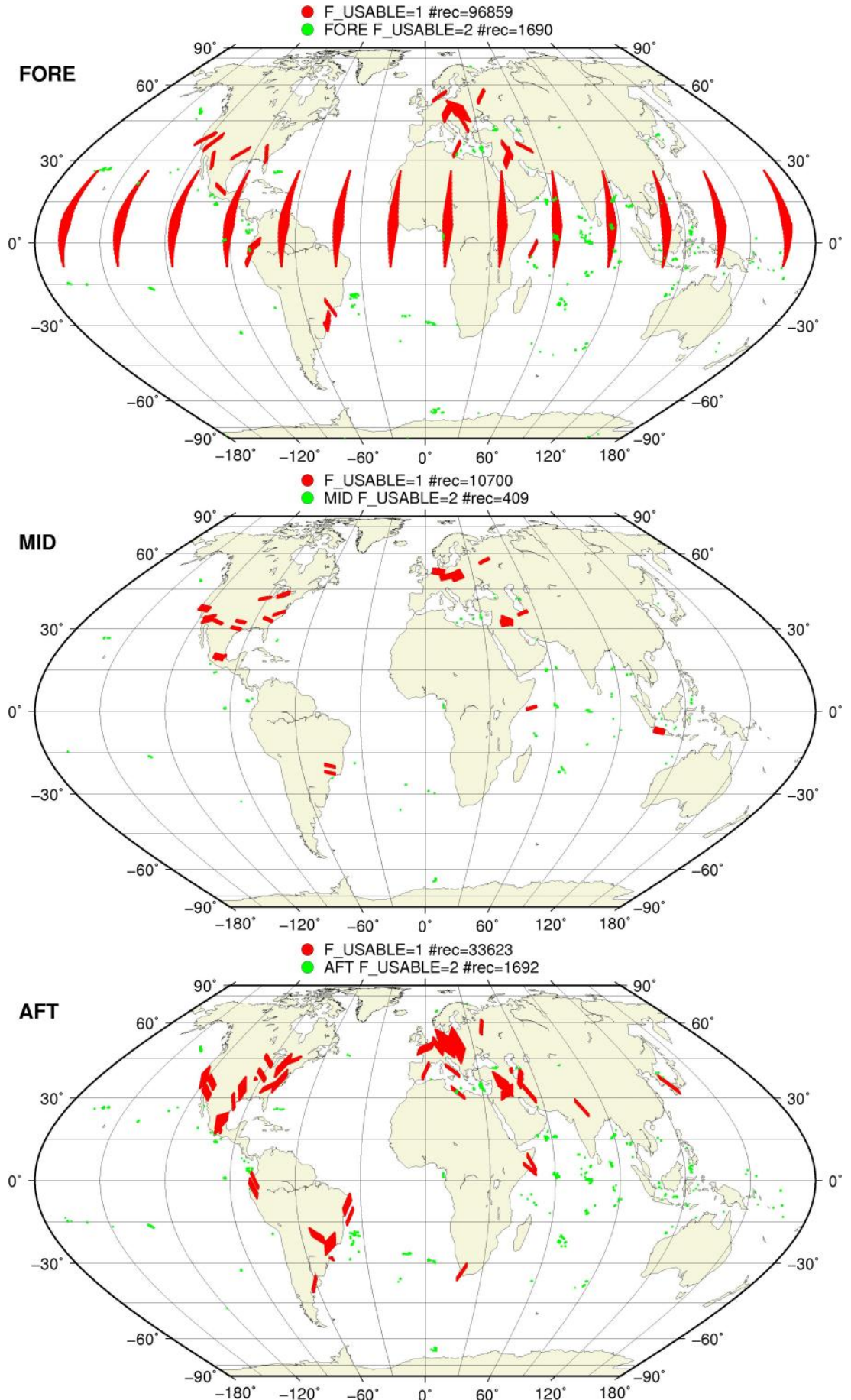
# SZR Flagged Data Coverage

F\_KP = 1 on map



# SZR Flagged Data Coverage

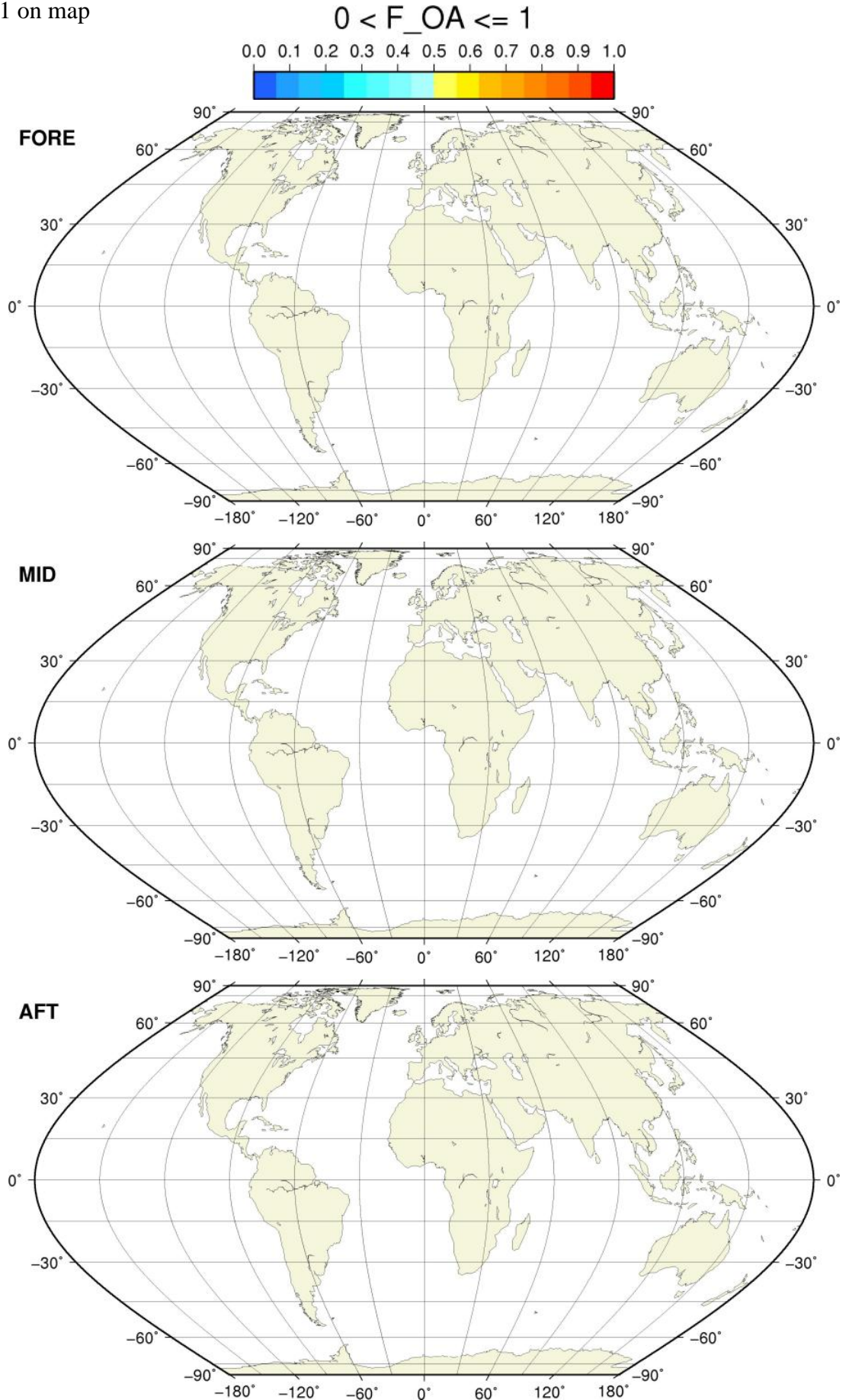
F\_USABLE = 1 or 2 on map





# SZR Flagged Data Coverage

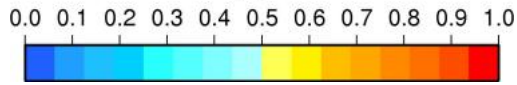
$0 < F_{OA} \leq 1$  on map



# SZR Flagged Data Coverage

$0 < F_{F/V} \leq 1$  on map

$0 < F_F \leq 1$



$0 < F_V \leq 1$

