

ASCAT DAILY Report

Metop-B

OPE

DAY 2015_007

20150107000000 - 20150107235959

DATA STATISTICS

BASED ON ORBITS (#14)

11952 11953 11954 11955 11956 11957 11958 11959 11960 11961 11962 11963 11964
11965 11966

DB STATISTICS : OPE M01_20150107

| | | | | | |
|-----|-----|-------|------|------|-------|
| SMO | 480 | 1.55 | .60 | .82 | 3.37 |
| SMR | 480 | 3.69 | .65 | 2.67 | 7.33 |
| SZF | 480 | .64 | 2.52 | .22 | 47.15 |
| xxx | 480 | 10.65 | 1.64 | 9.05 | 19.88 |

INGATE (STORE) STATISTICS : OPE M01_20150107

| | | |
|--------|---------------------------------------|-----------------------------------|
| 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 |

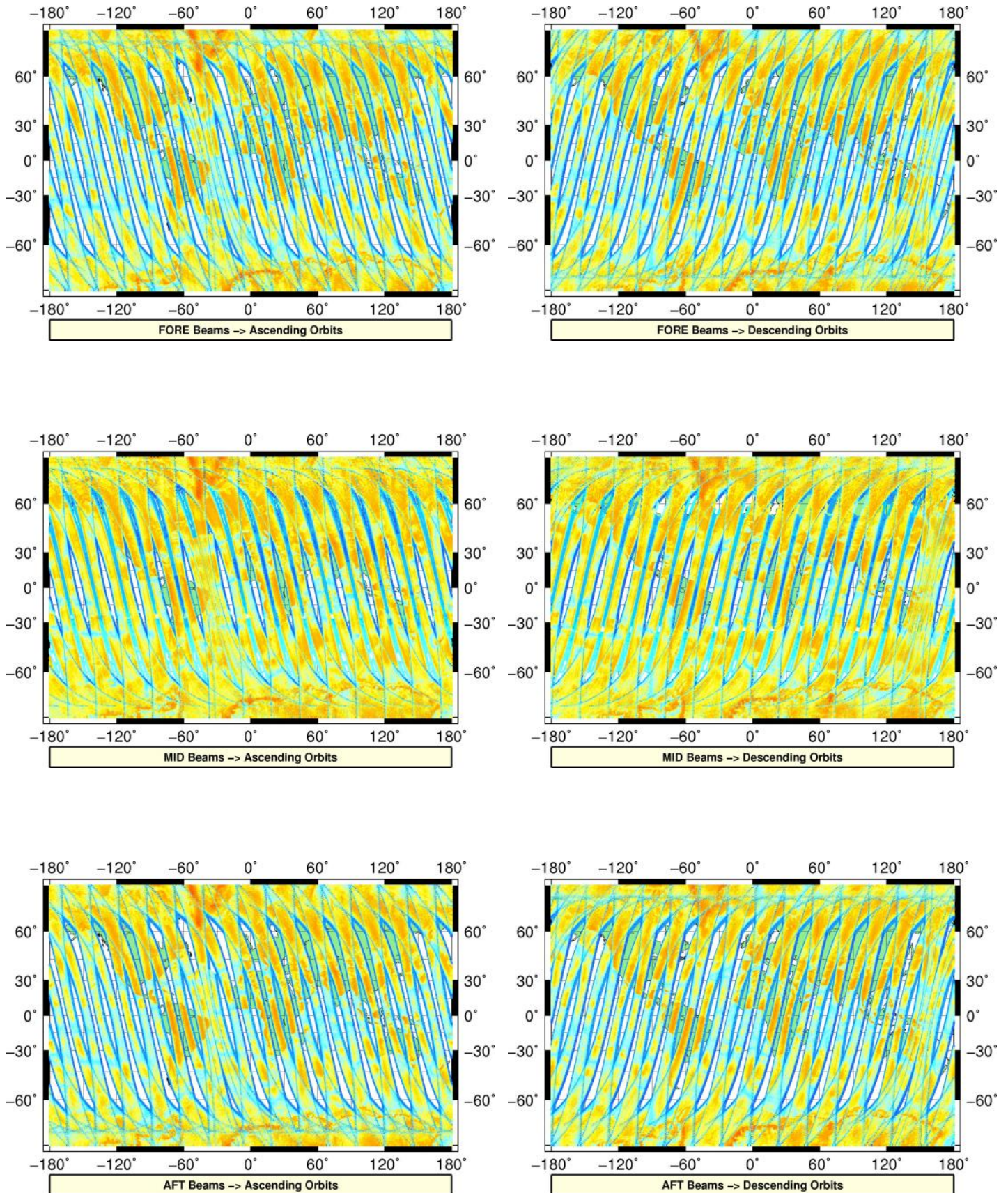
Overview

Configuration and SPHR content

| Parameter | Value |
|--------------------------|---|
| SENSING START-STOP | 20150107000000 - 20150107235959 |
| 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 | 610399 |
| 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 | 101734 |
| N_GAPS | 0 |
| TOTAL_GAPS_SIZE | 0 |
| N_HKTM_PACKETS_RECEIVED | 15840 |
| 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 | 1054544 |
| N_F_LAND | 49076483 |
| N_F_GEO | 3309309 |
| 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 |

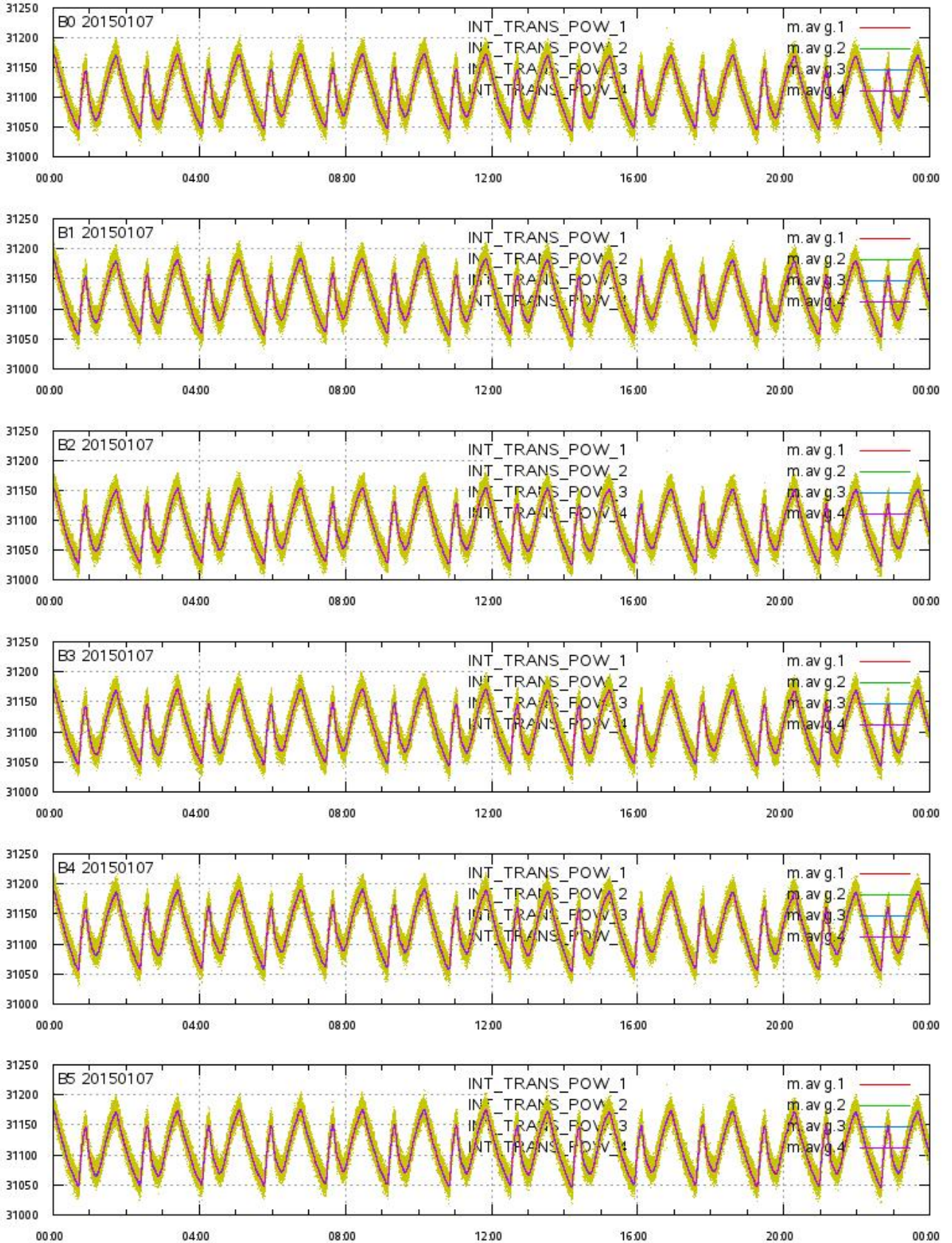
L1A Product

Echo Data Coverage maps



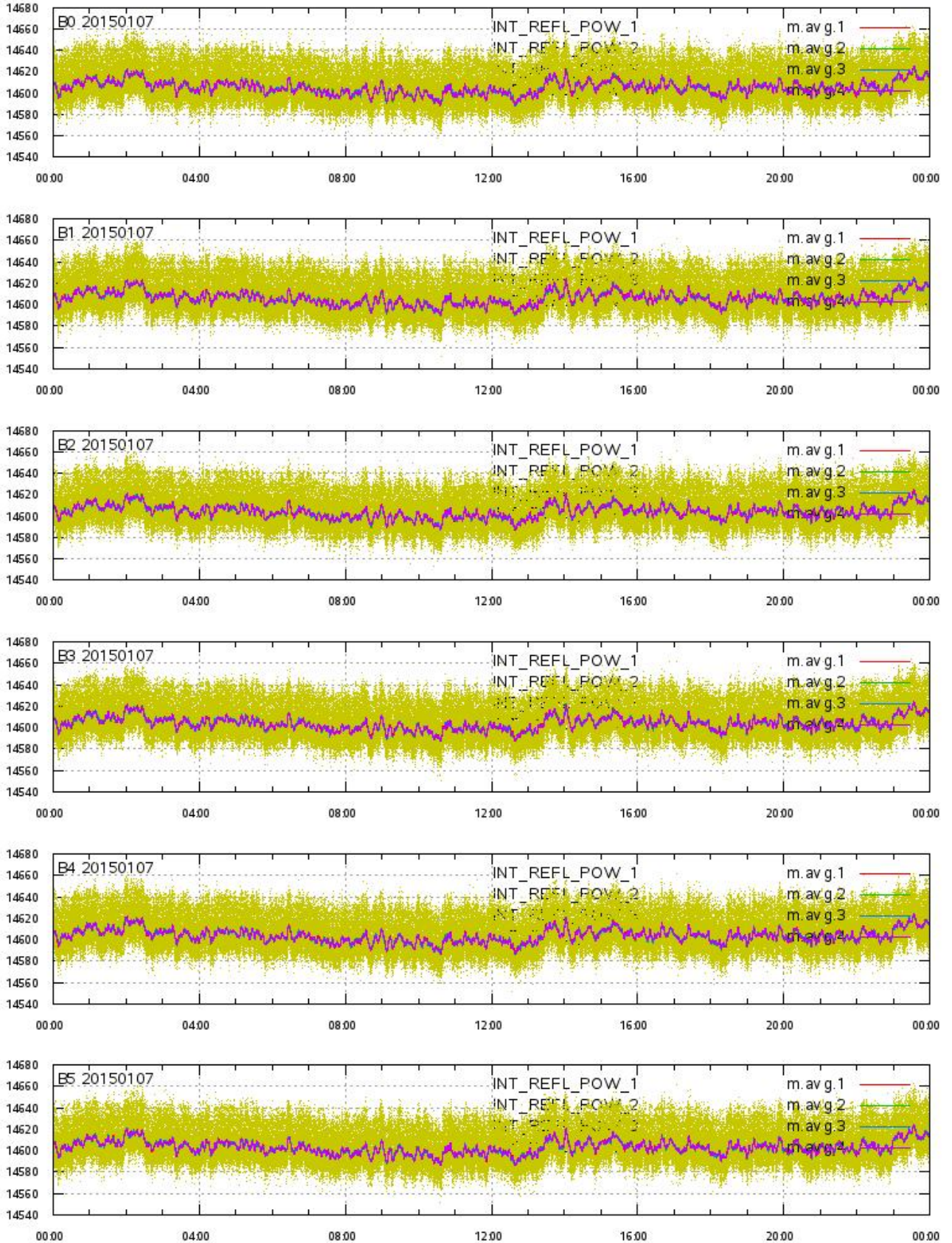
L1A Product

Integrated Transmitted Powers 1-4 per beam 0-5 vs. UTC_LOCALISATION



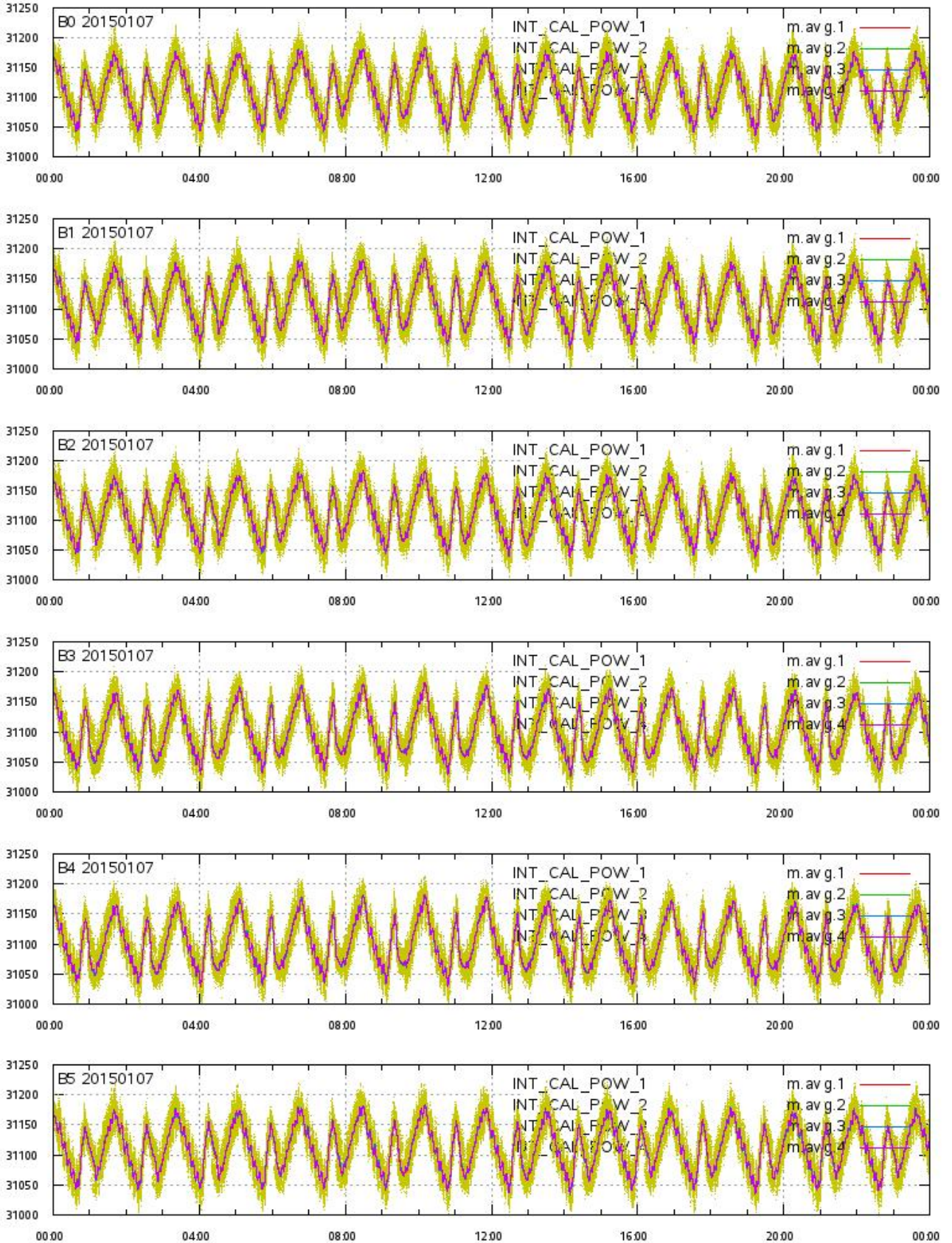
L1A Product

Integrated Reflected Powers 1-4 per beam 0-5 vs. UTC_LOCALISATION



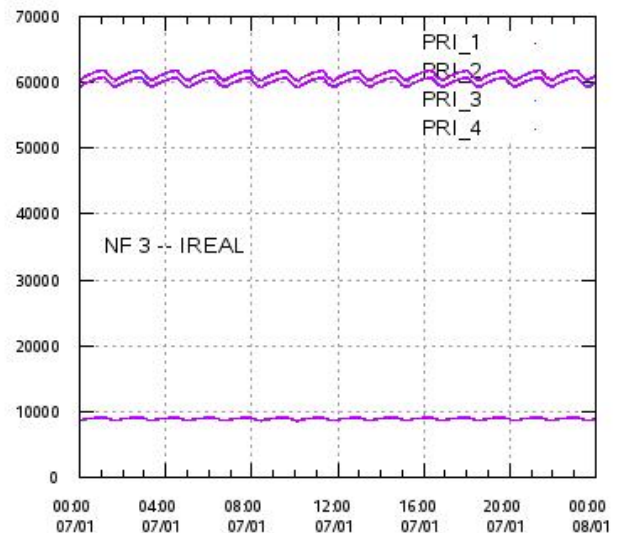
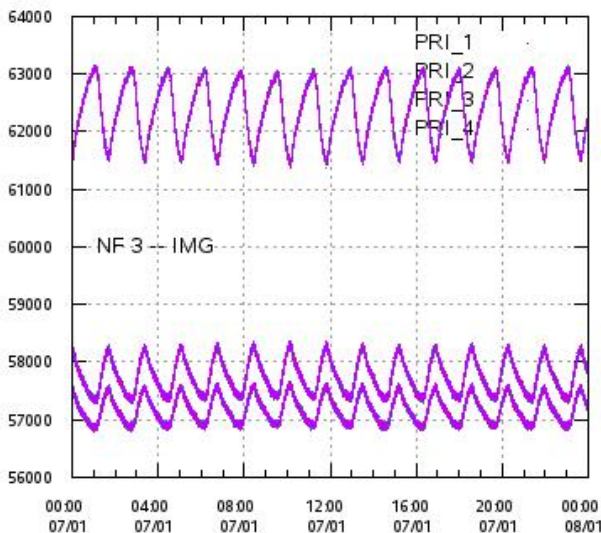
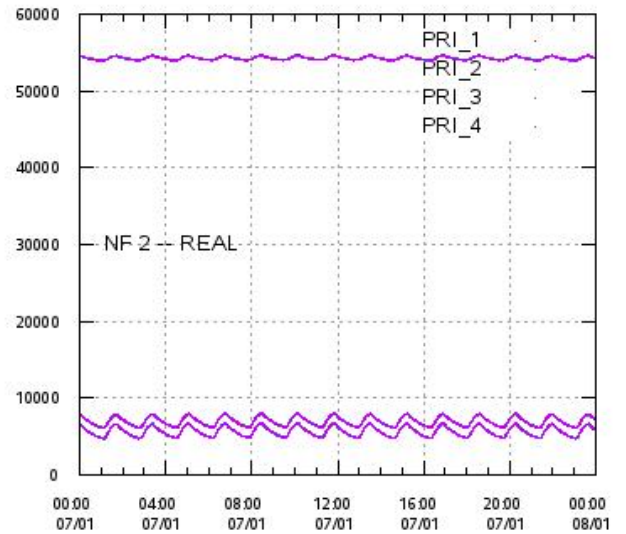
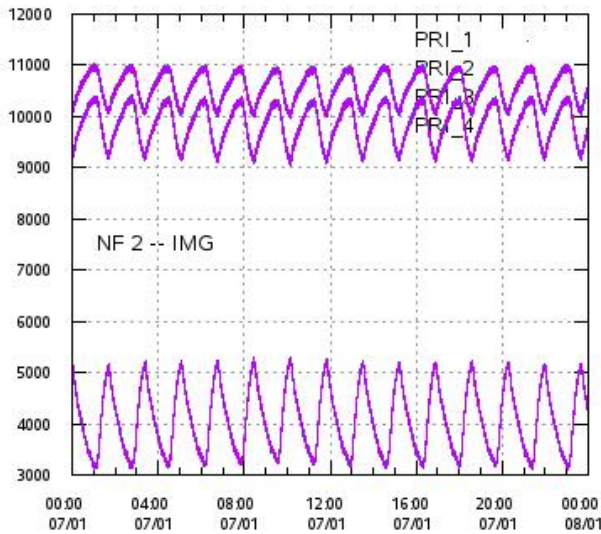
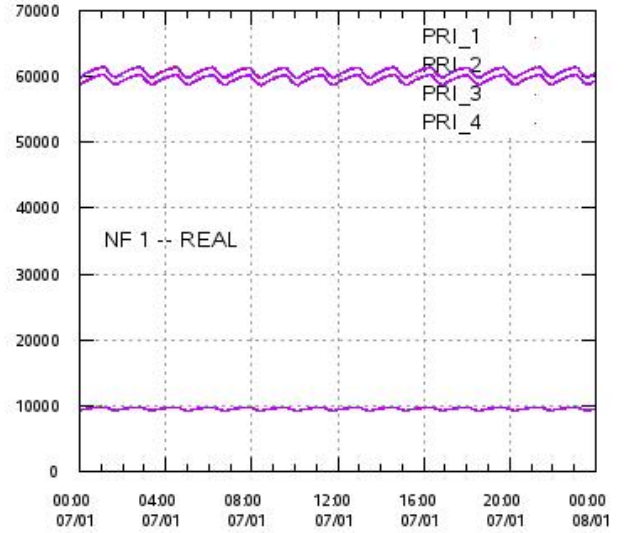
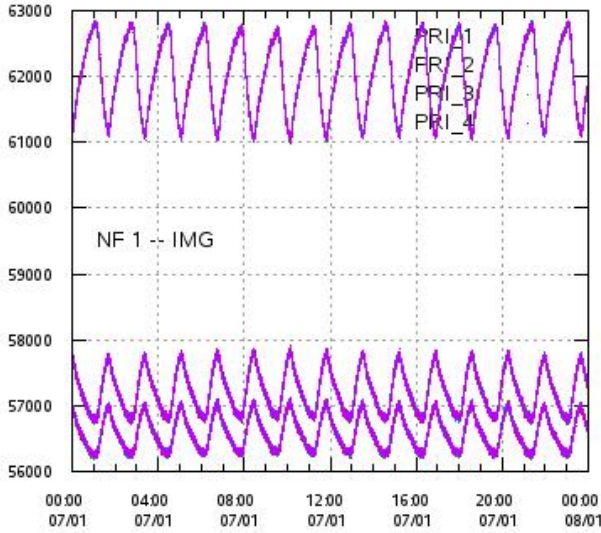
L1A Product

Integrated Calibration Powers 1-4 per beam 0-5 vs. UTC_LOCALISATION



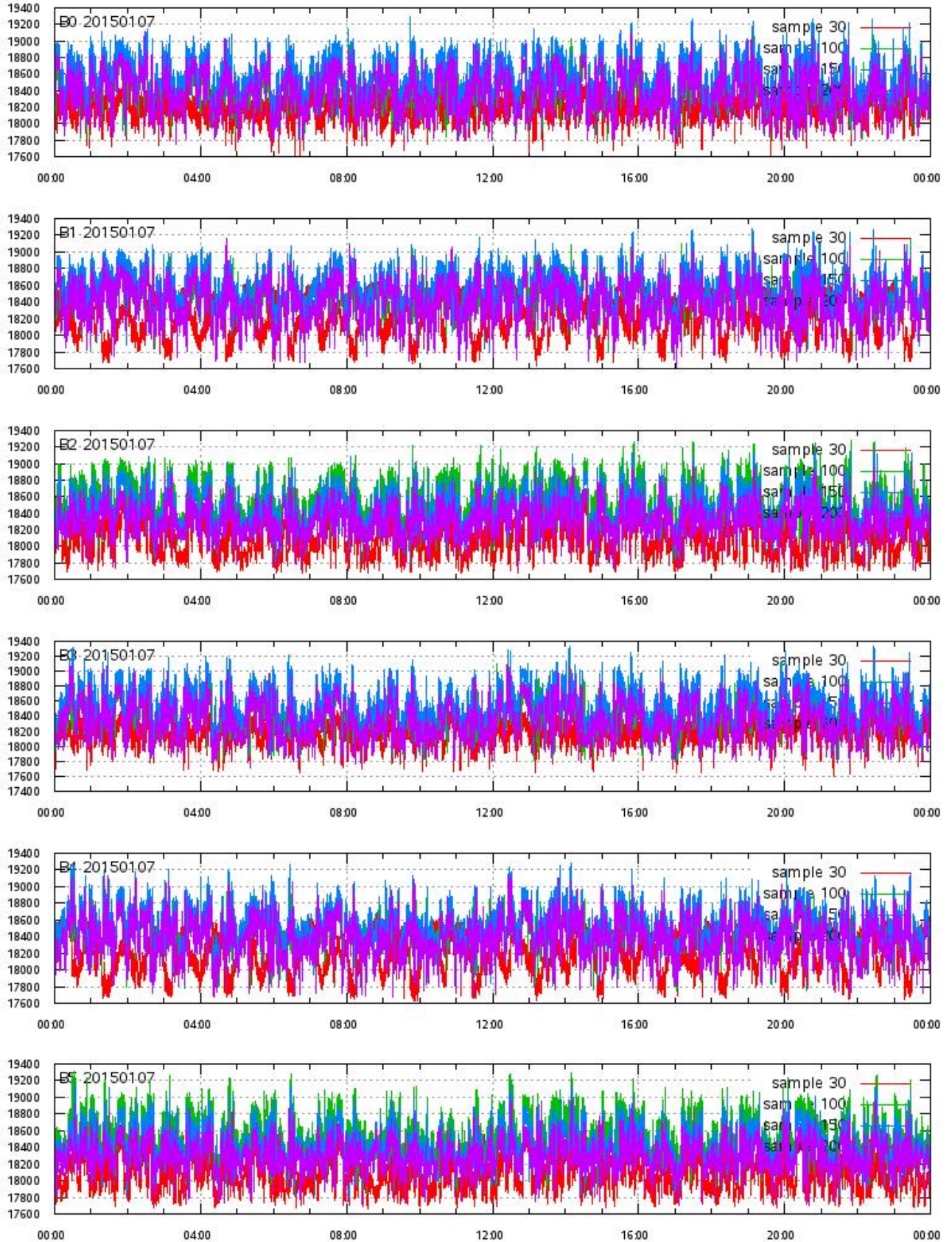
L1A Product

Calibration Powers vs. UTC_LOCALISATION



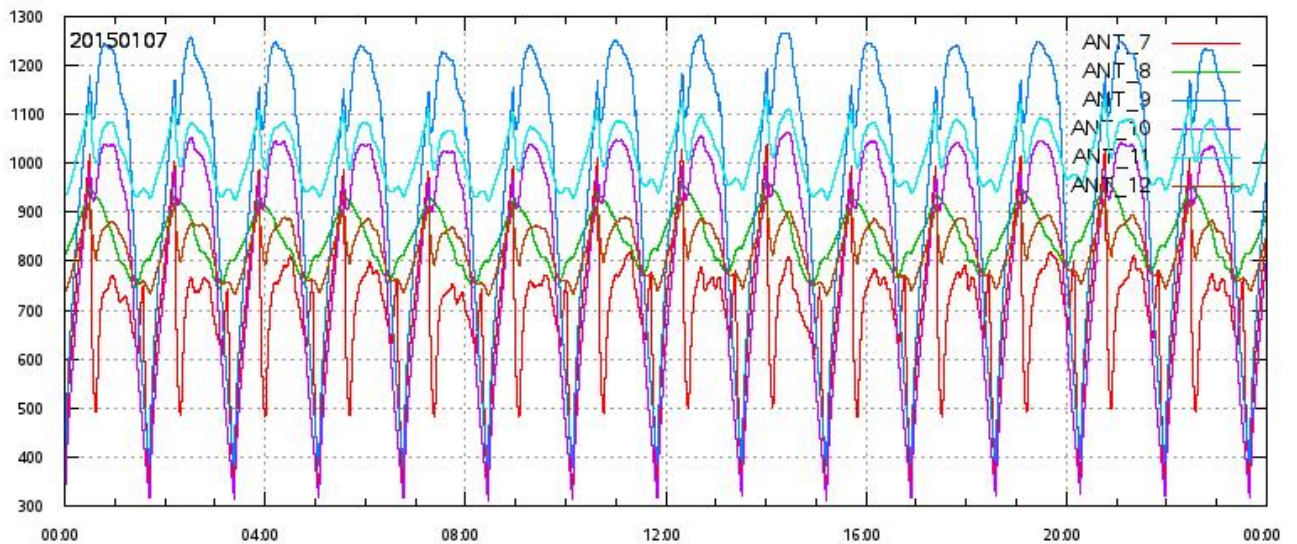
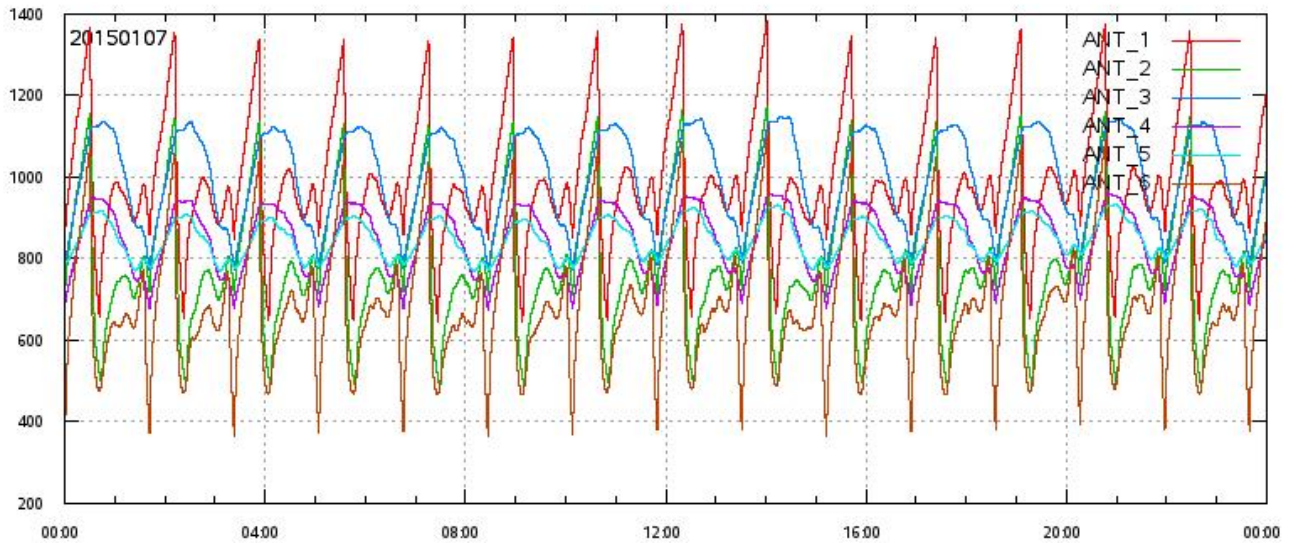
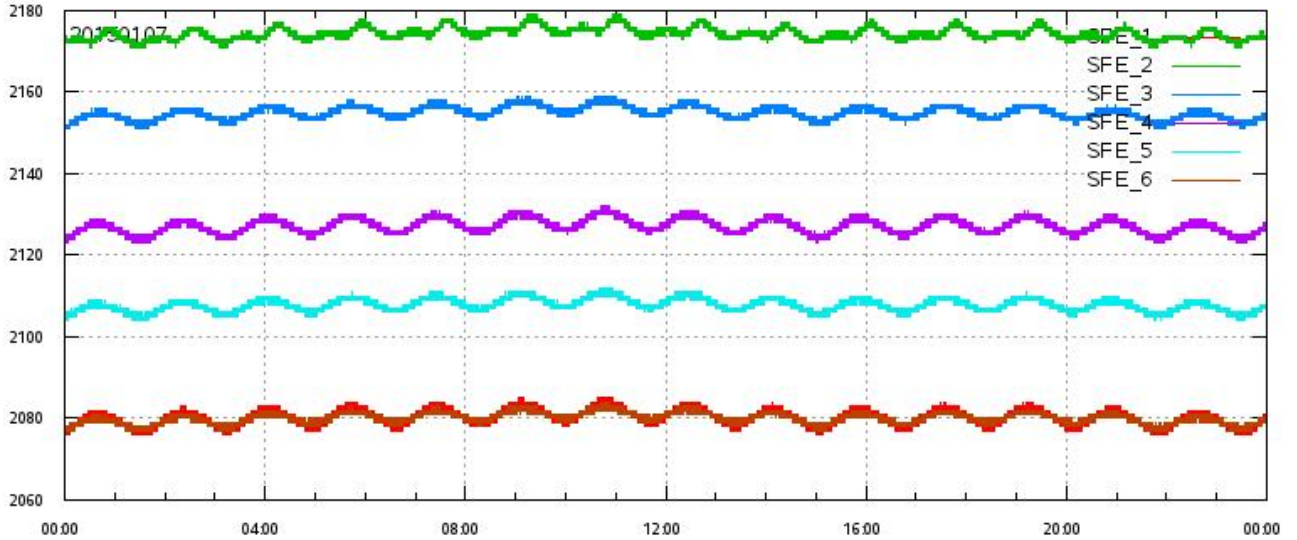
L1A Product

ECHO DATA (raw) for samples 30, 100, 150 and 200 vs. UTC_LOCALISATION



L1A Product

SFE & ANT Temperatures (raw) vs. UTC_LOCALISATION

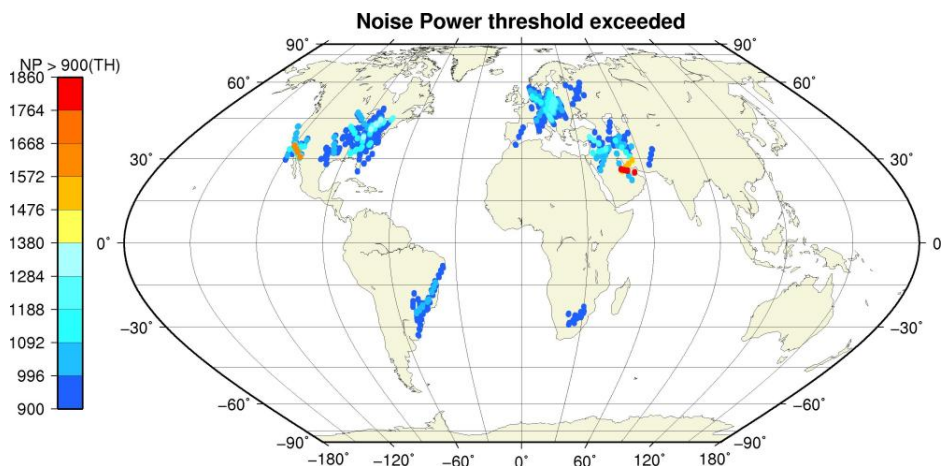
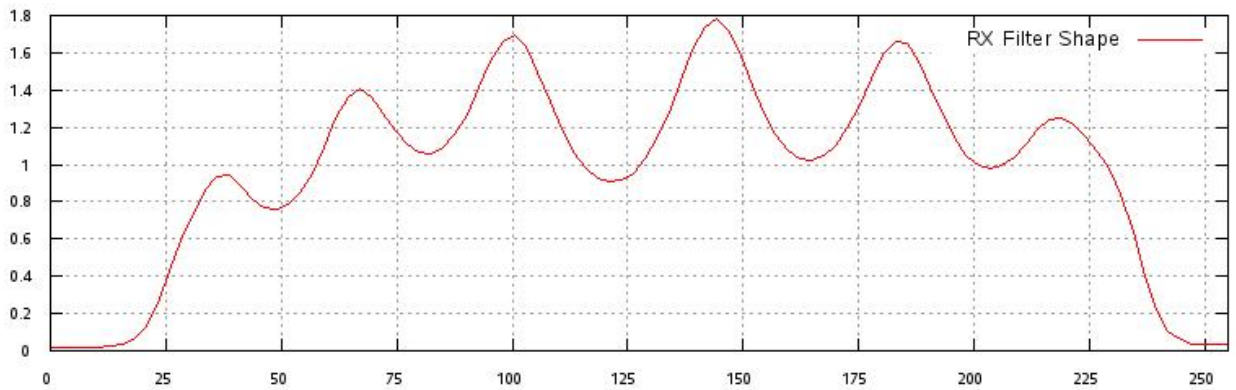
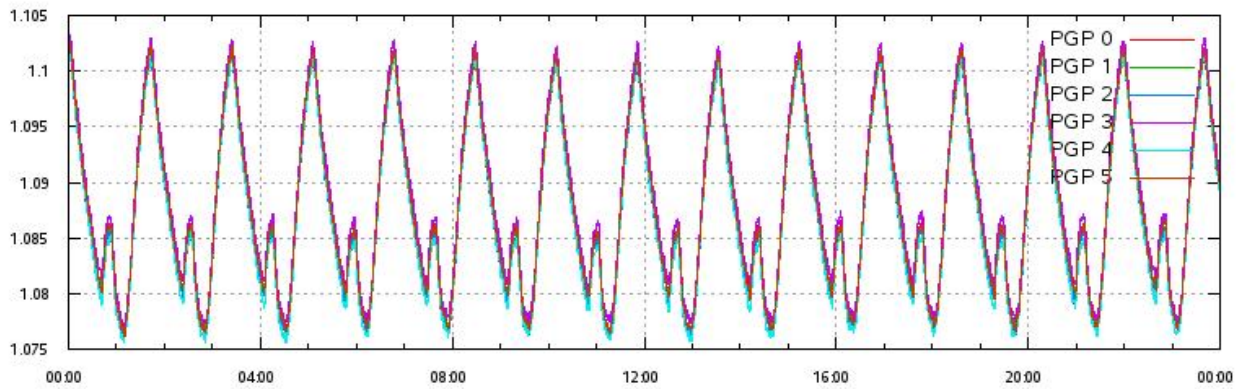
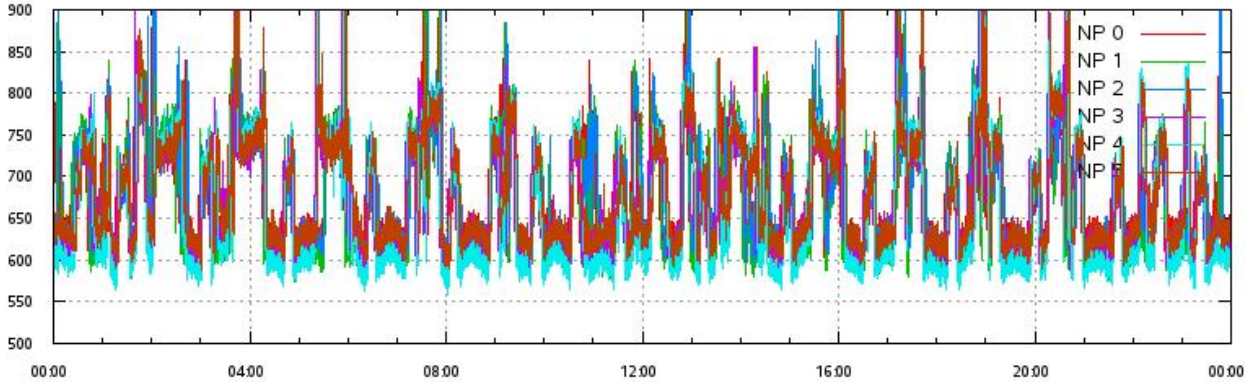


L1A Product

Noise Power & Power Gain Product per beam 0-5 vs. UTC_LOCALISATION

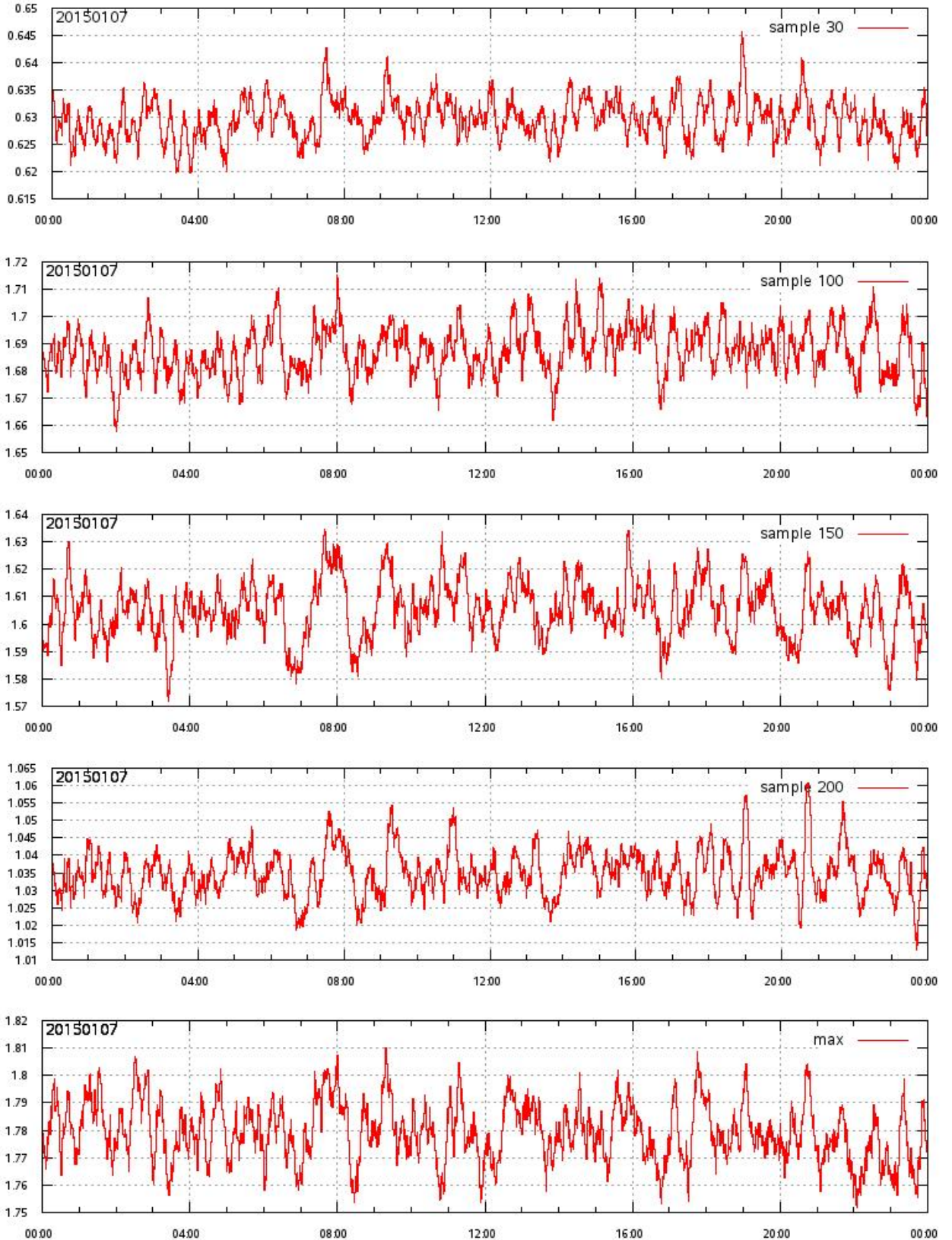
RX Filter Shape average over sample number

Noise Power threshold exceeded (TH=900) on map



L1A Product

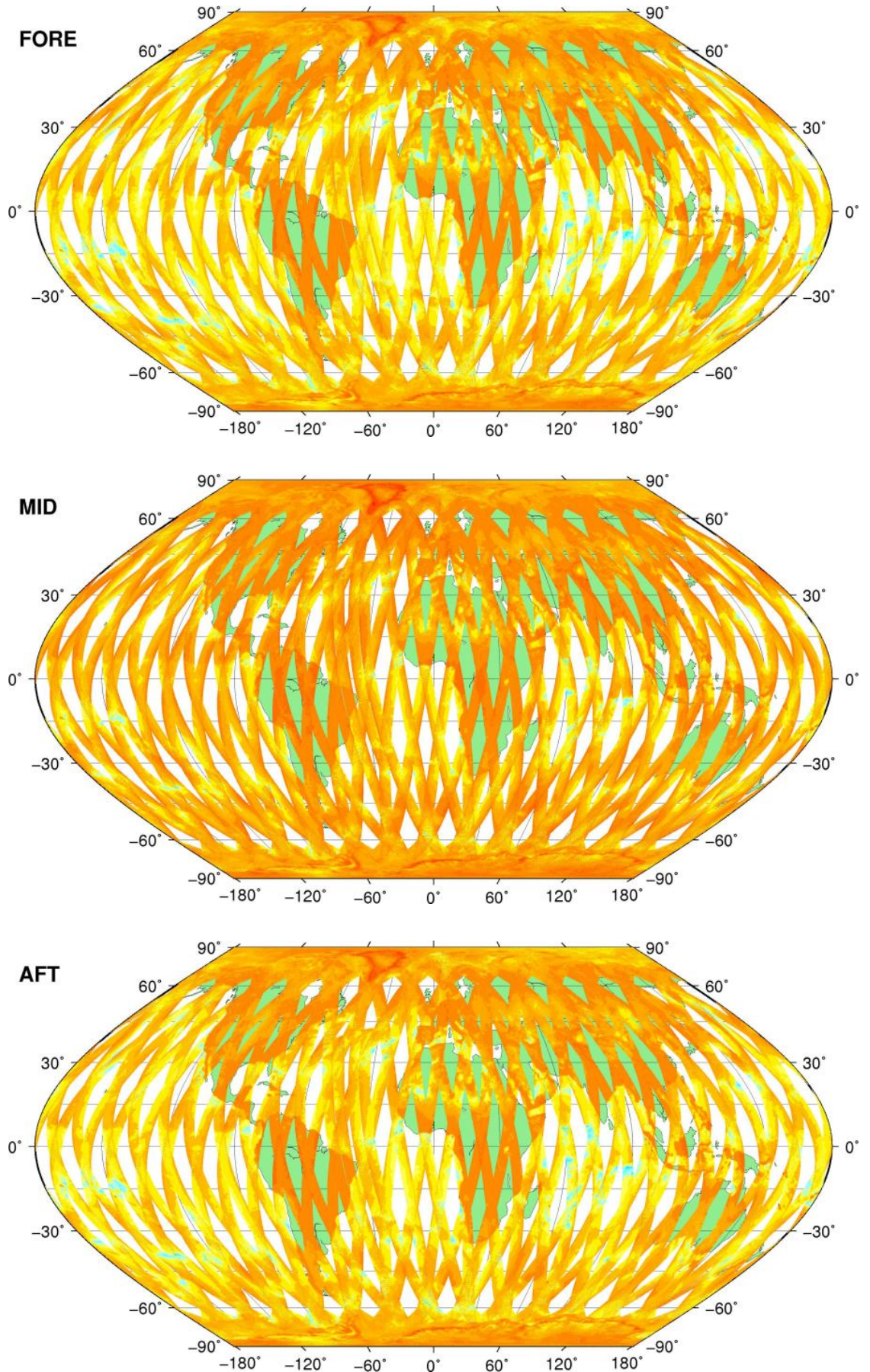
RX filter shape in detail for sample 30,100,150, 200 & max vs. UTC_LOCALISATION



SZO Product

Sigma0_TRIP Coverage map

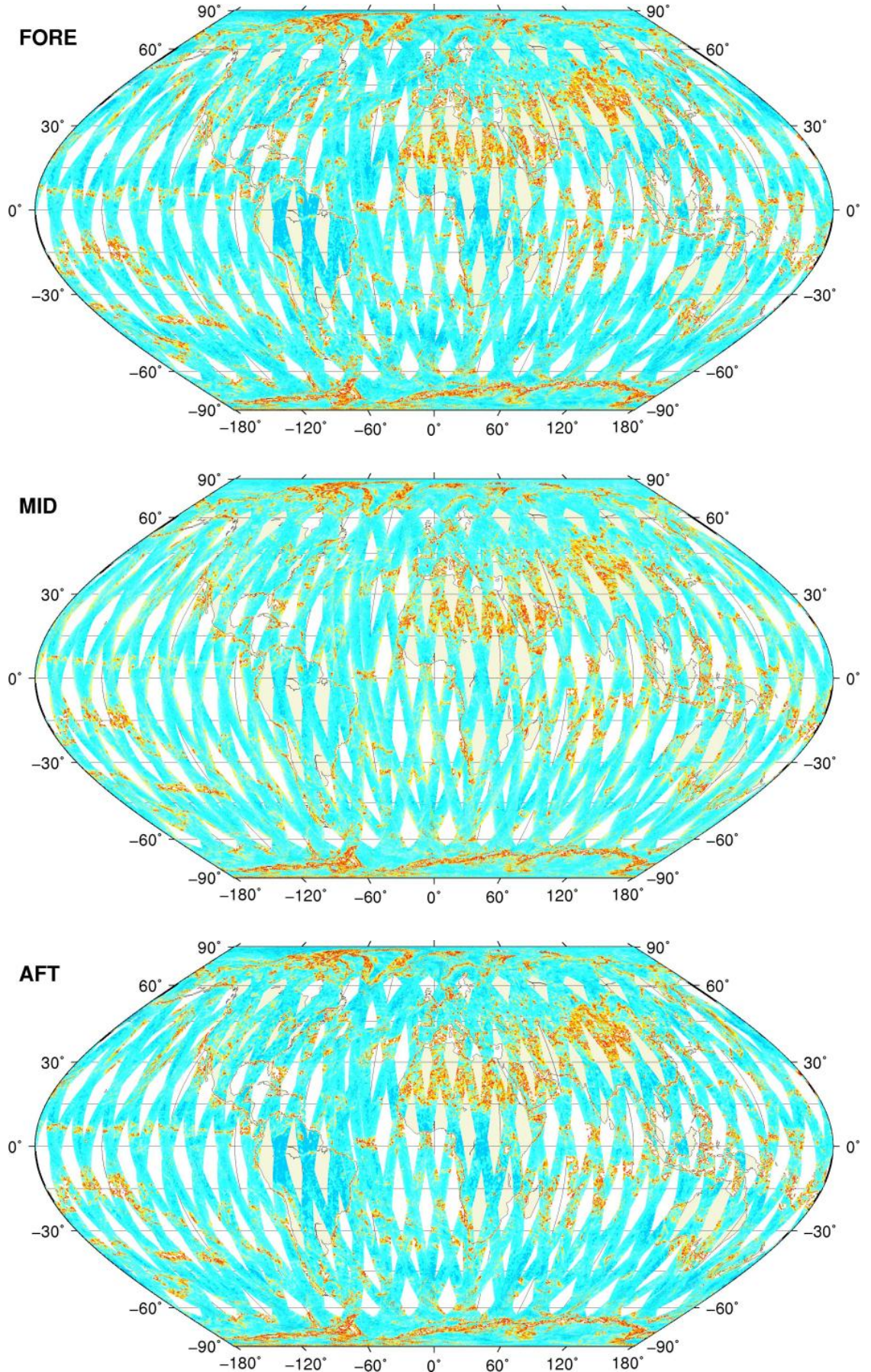
SIGMA0_TRIP Coverage



SZO Product

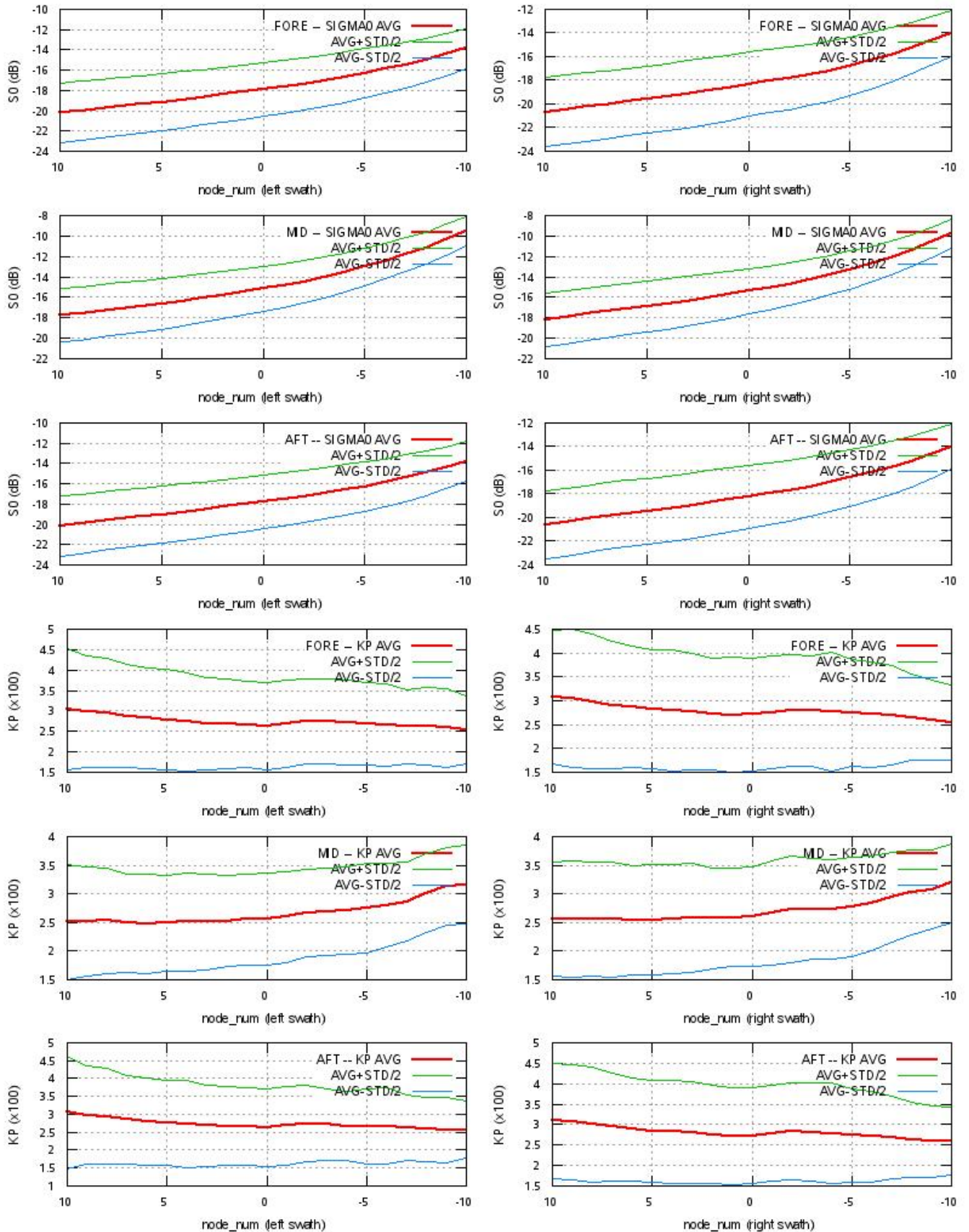
Kp Coverage map

Kp Coverage



SZO Product

S0 - Kp Statistics



SZO Product

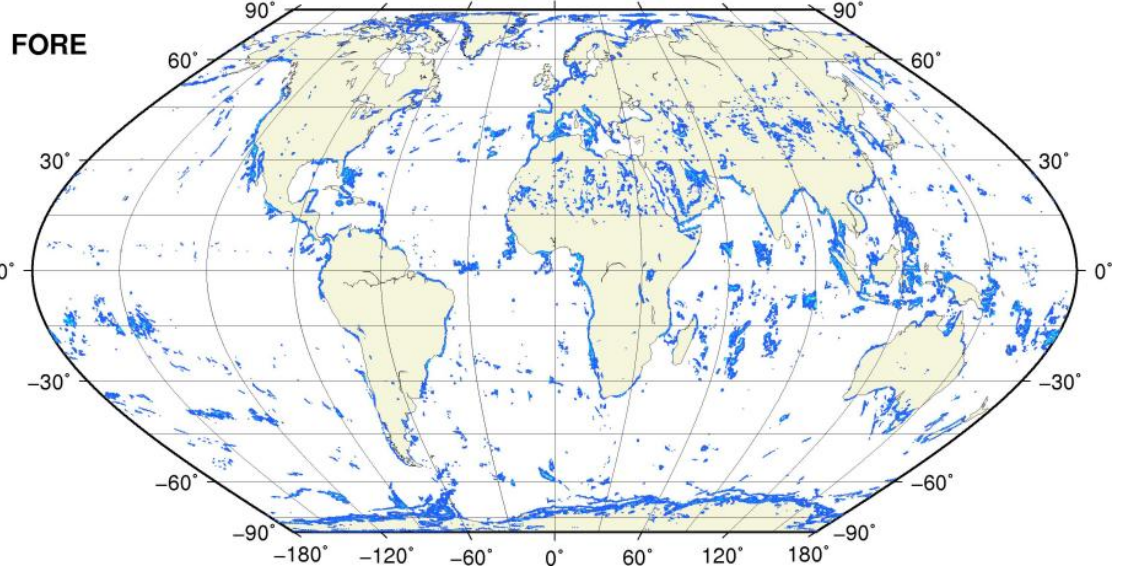
Kp Outliers on map

$0.06 < Kp < 1.0$

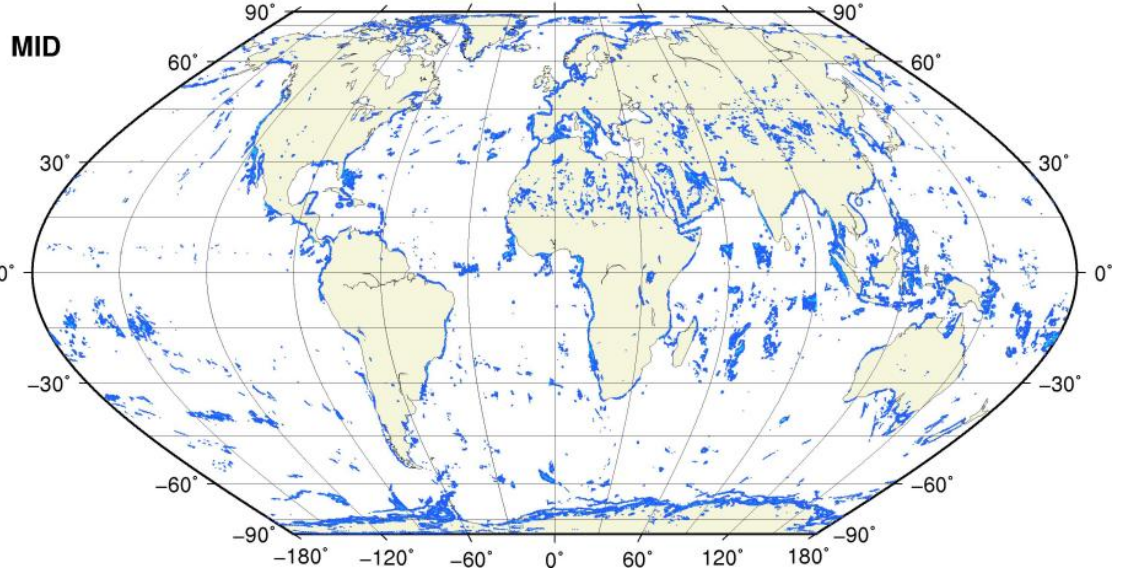
0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0



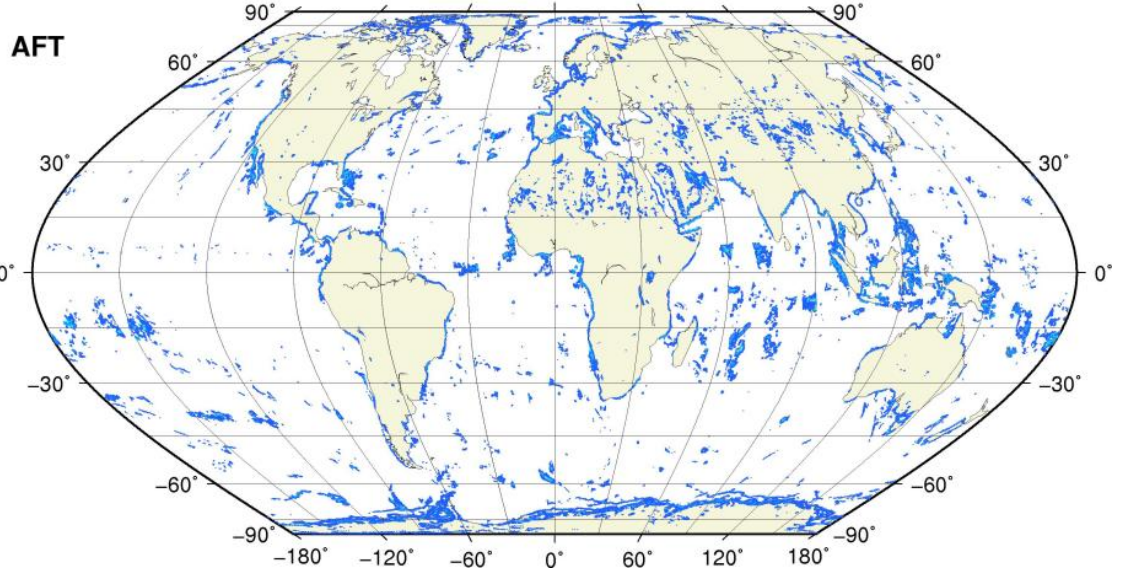
● KP = 1.0 #rec=0



● KP = 1.0 #rec=0



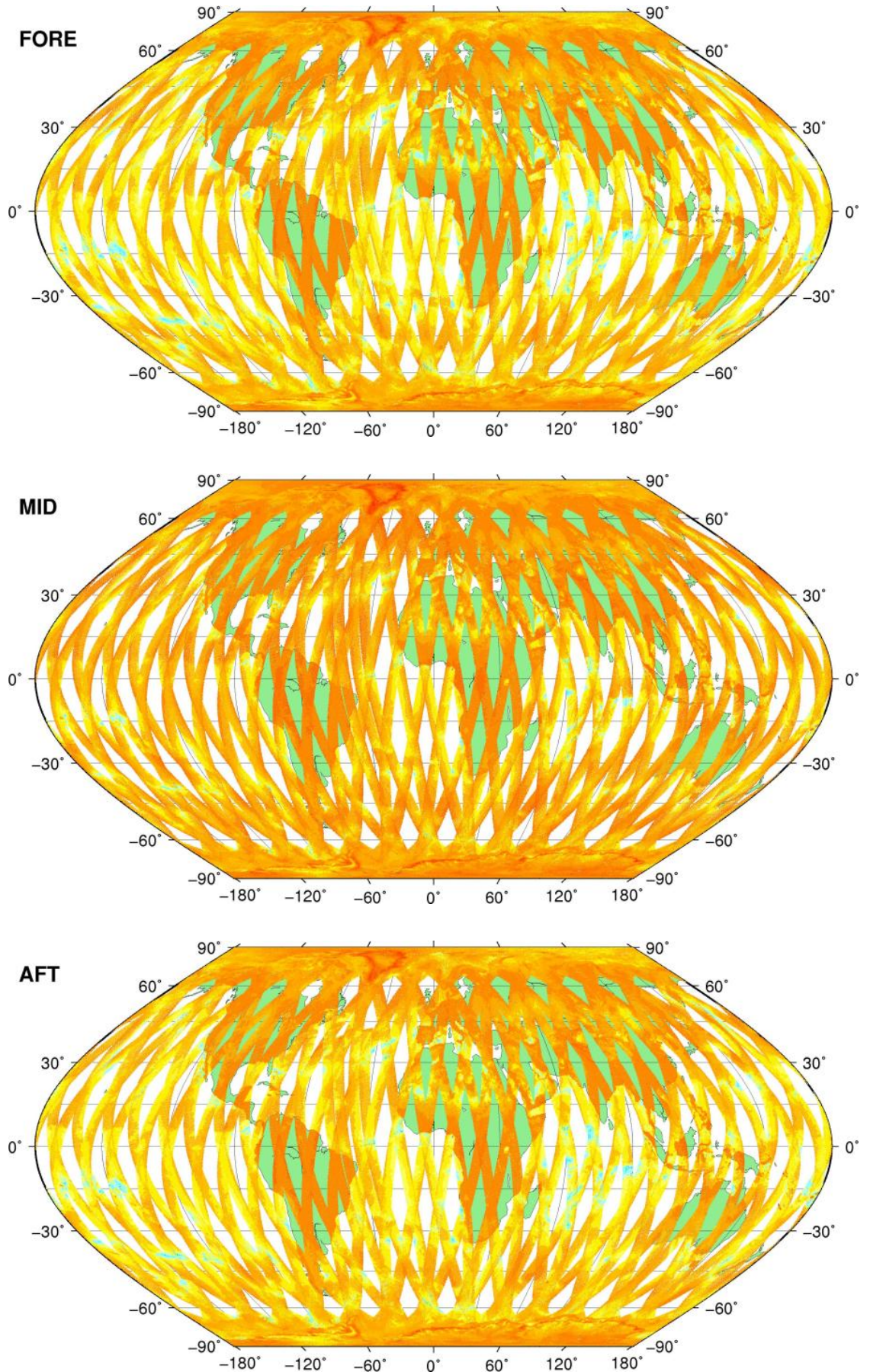
● KP = 1.0 #rec=0



SZR Product

Sigma0_TRIP Coverage map

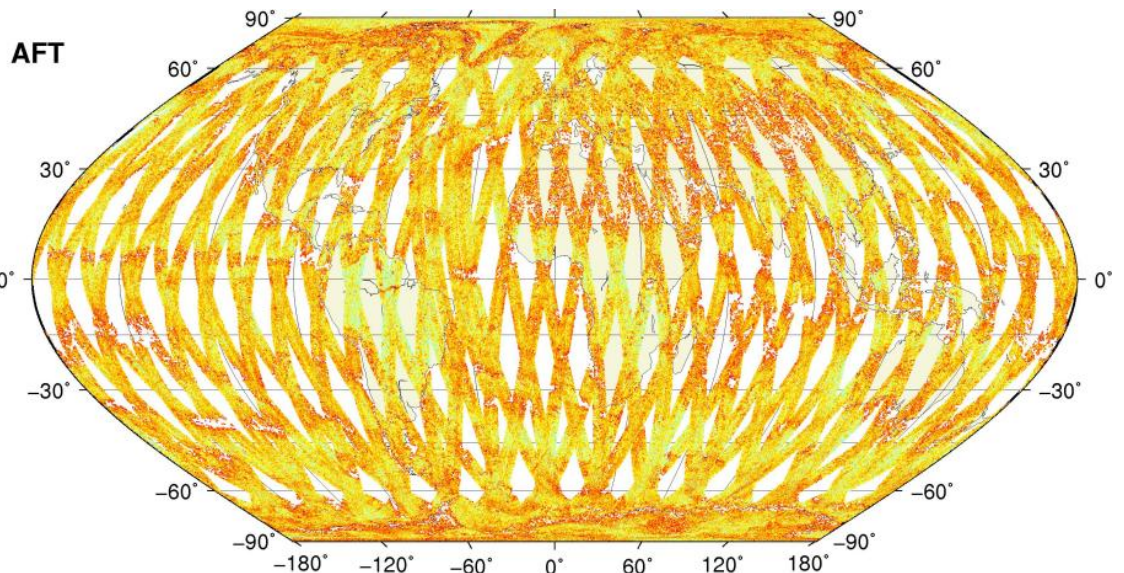
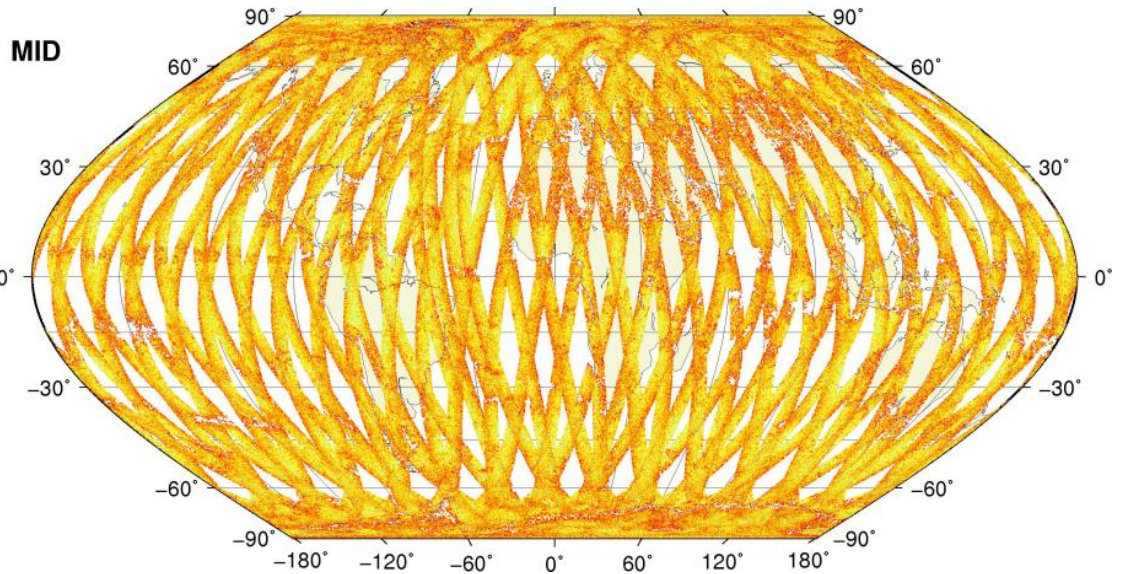
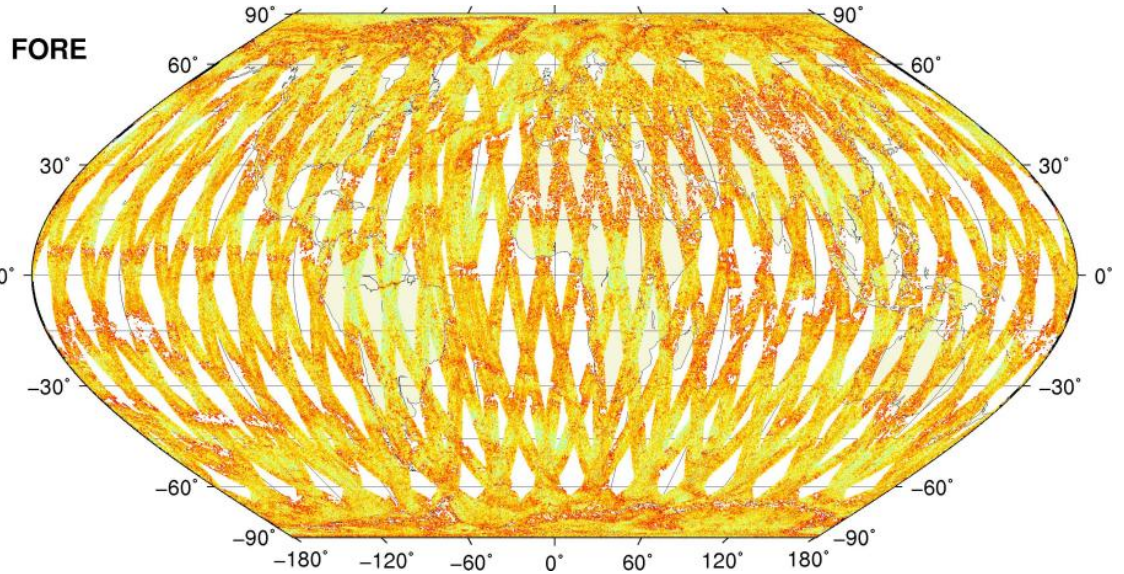
SIGMA0_TRIP Coverage



SZR Product

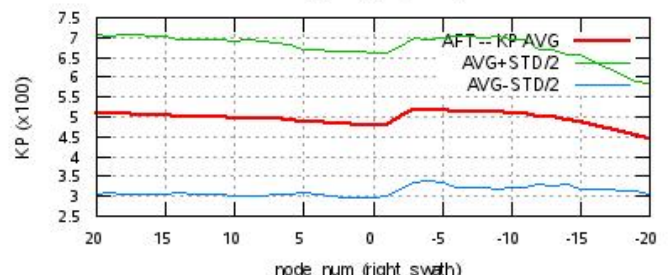
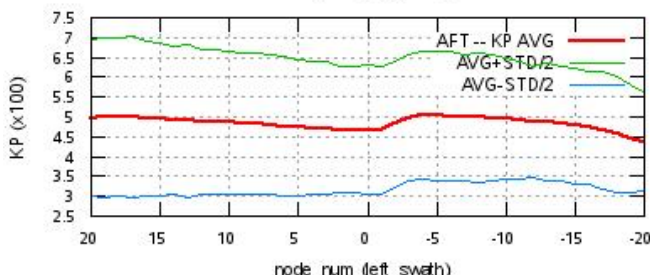
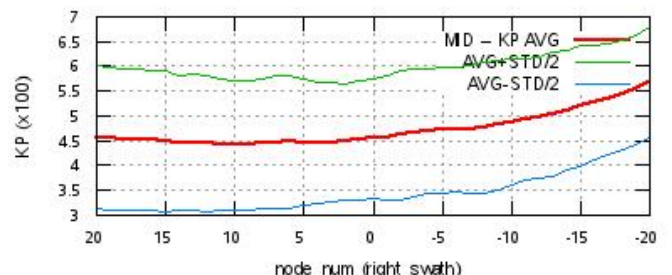
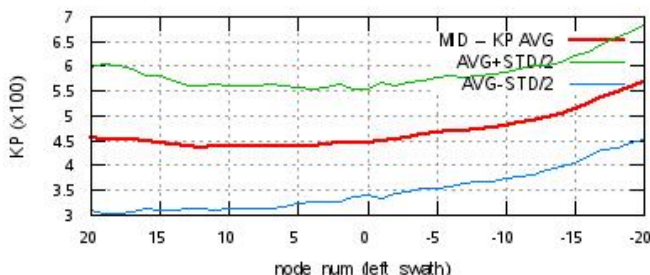
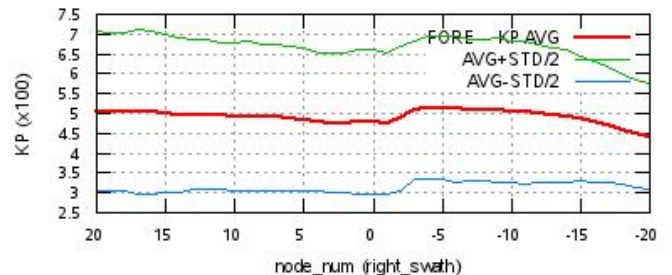
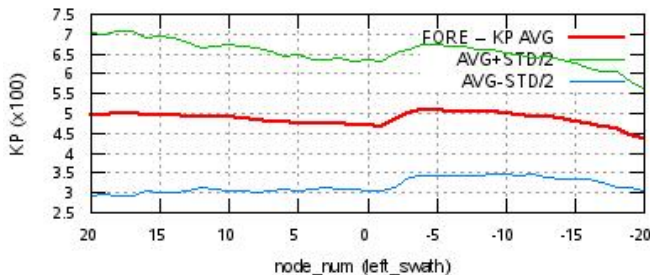
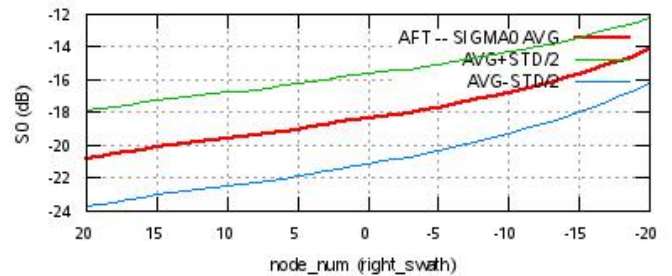
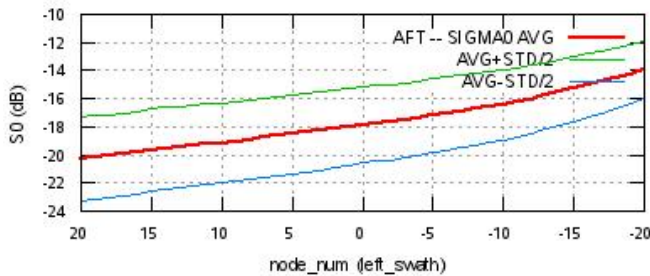
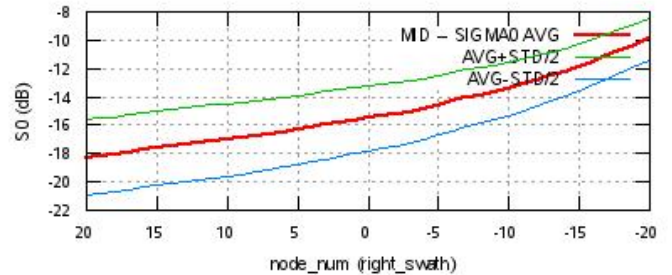
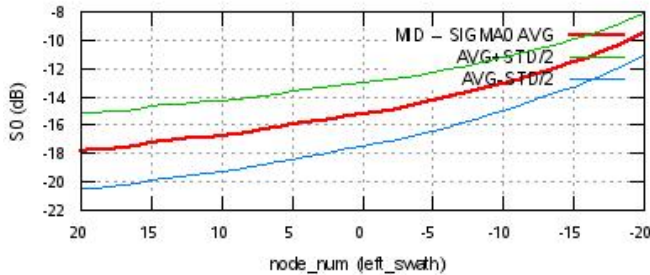
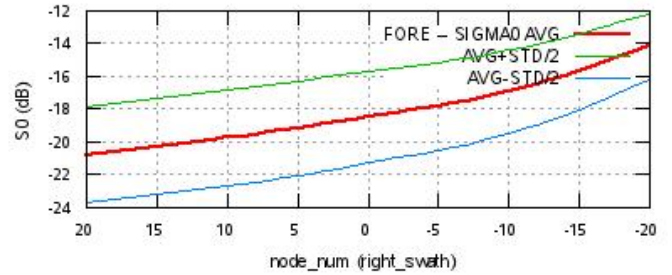
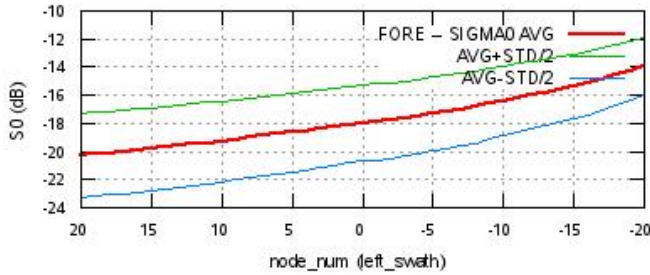
Kp Coverage map

Kp Coverage



SZR Product

S0 - Kp Statistics

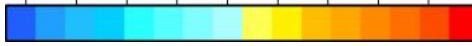


SZR Product

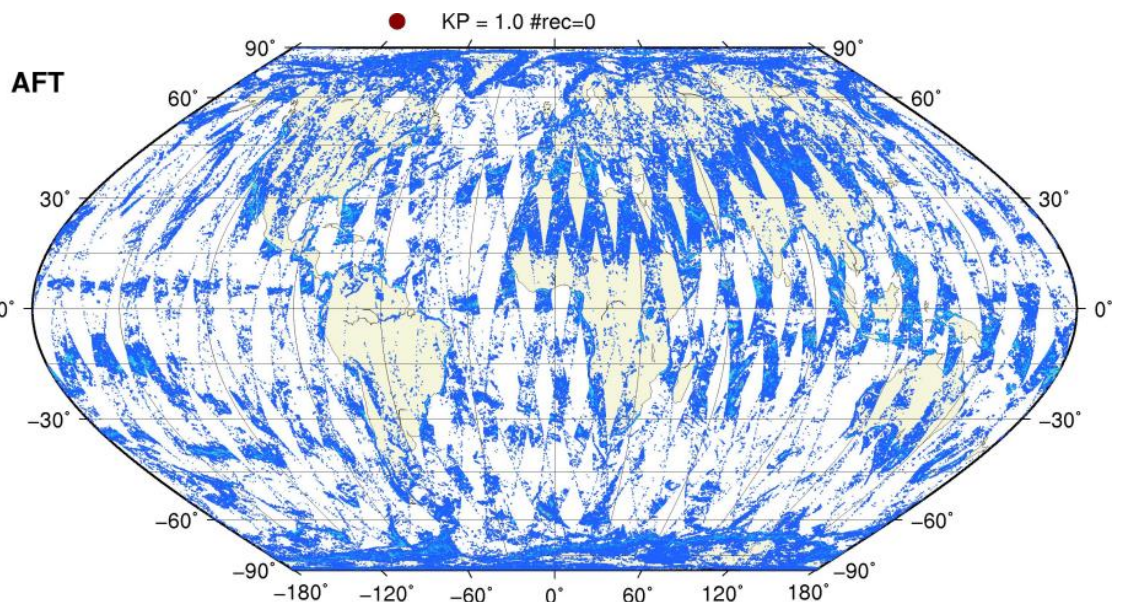
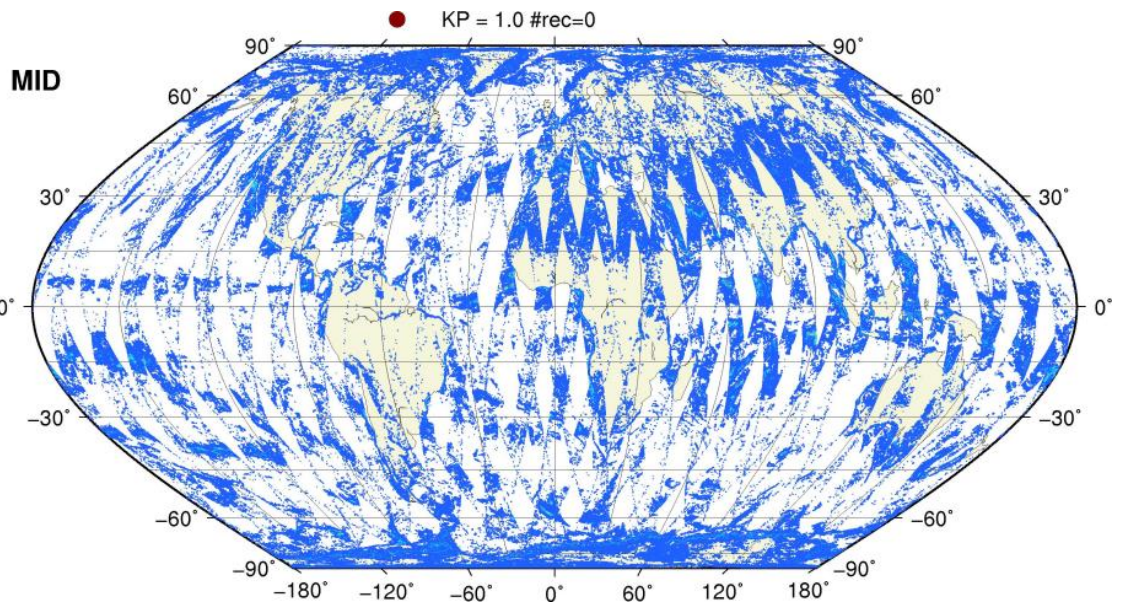
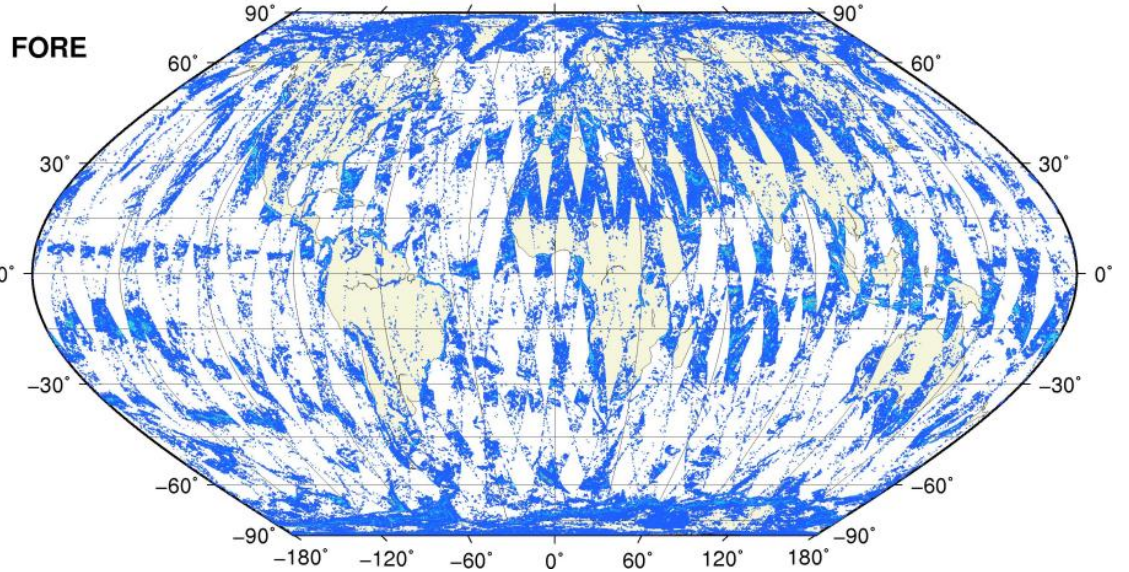
Kp Outliers on map

$0.06 < Kp < 1.0$

0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0

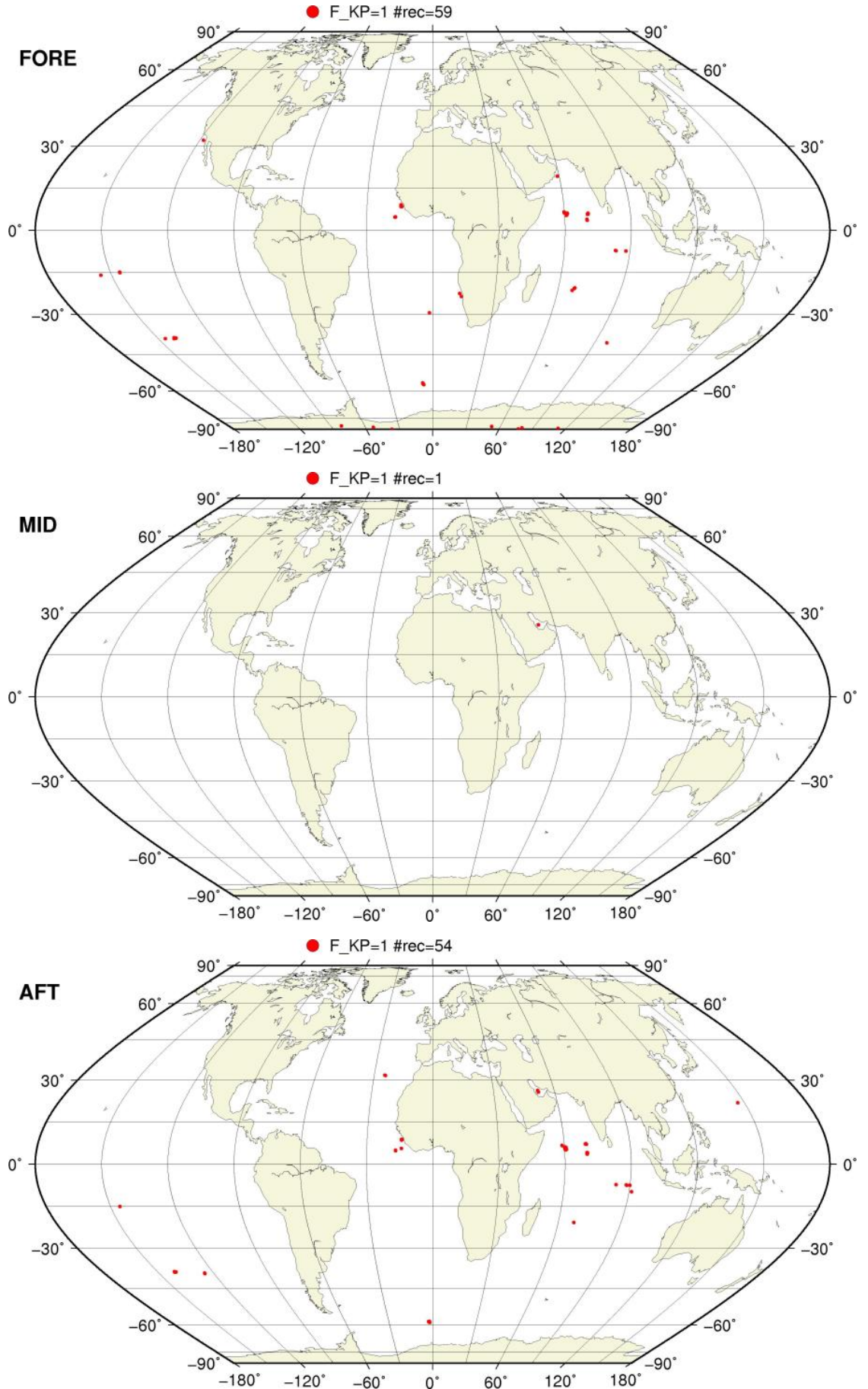


● KP = 1.0 #rec=0



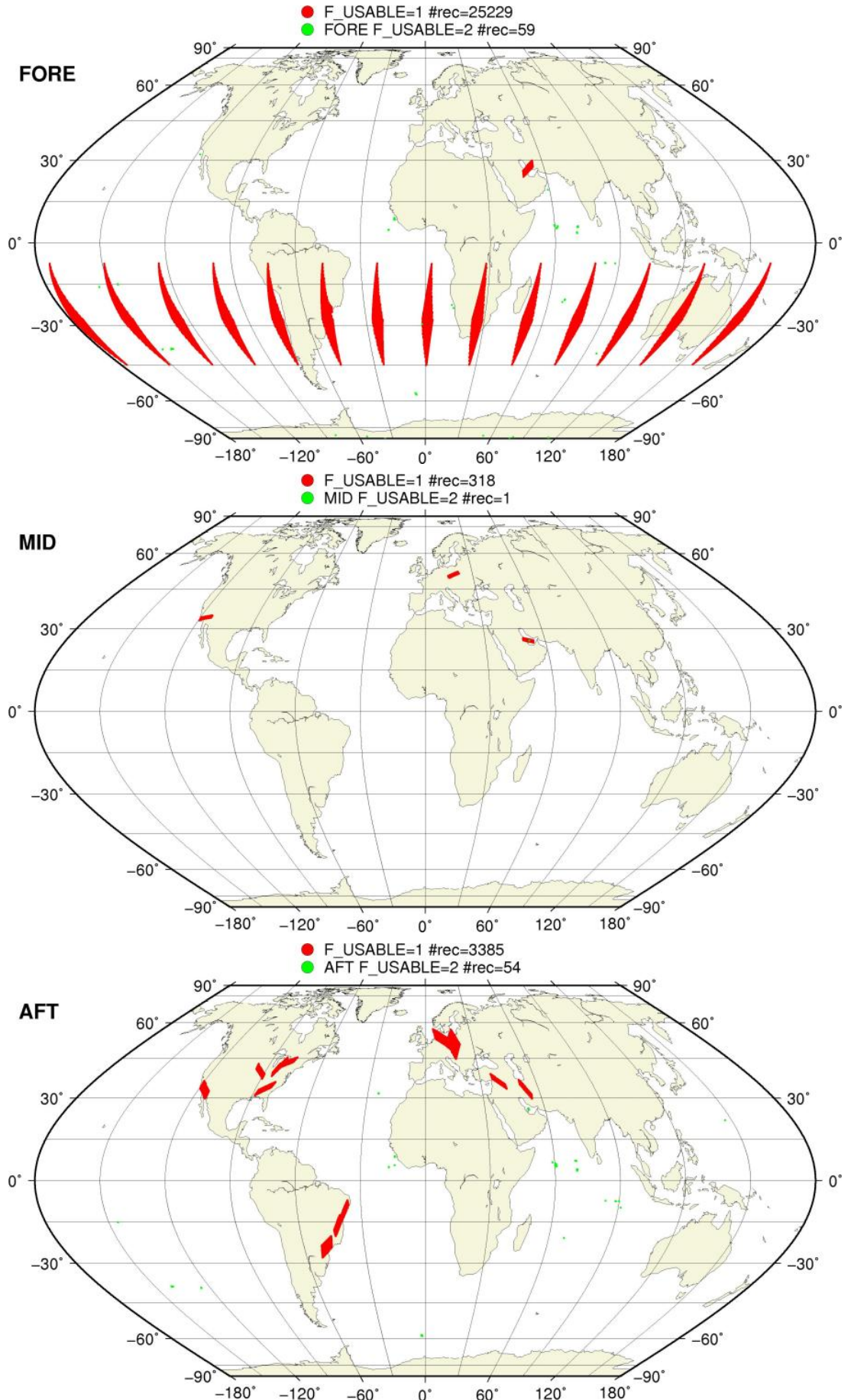
SZO Flagged Data Coverage

F_KP = 1 on map



SZO Flagged Data Coverage

F_USABLE = 1 or 2 on map



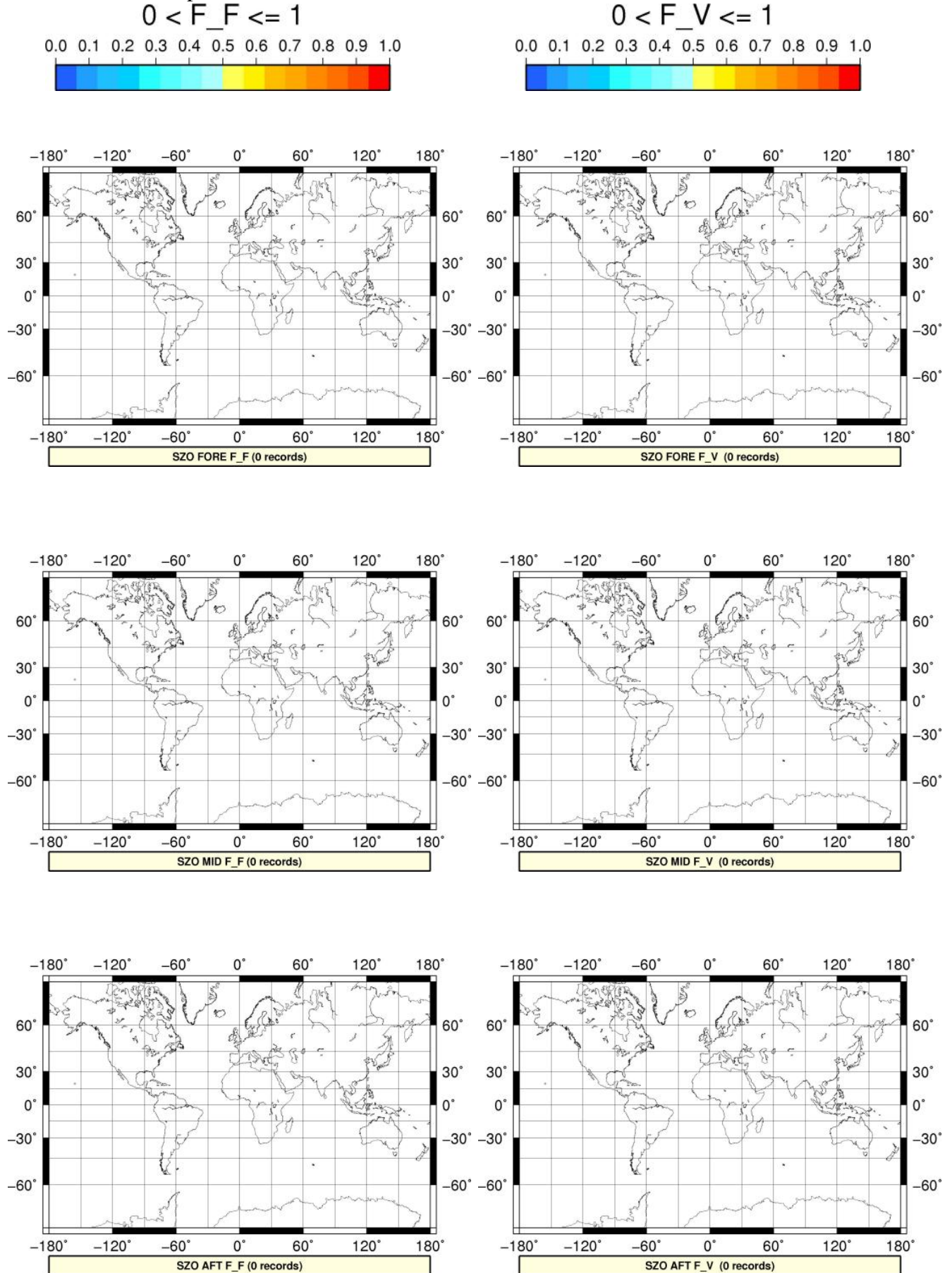
SZO Flagged Data Coverage

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



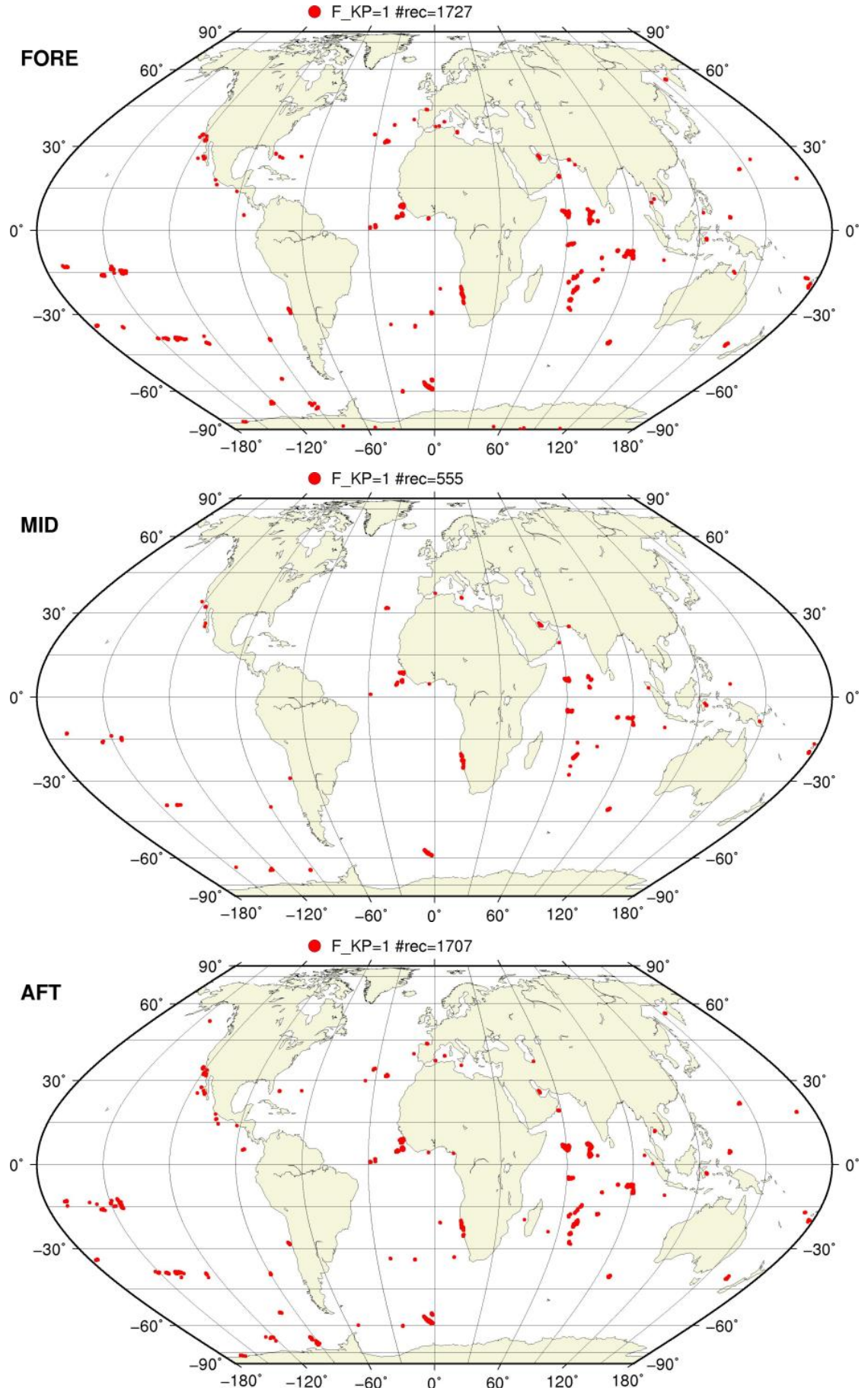
SZO Flagged Data Coverage

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



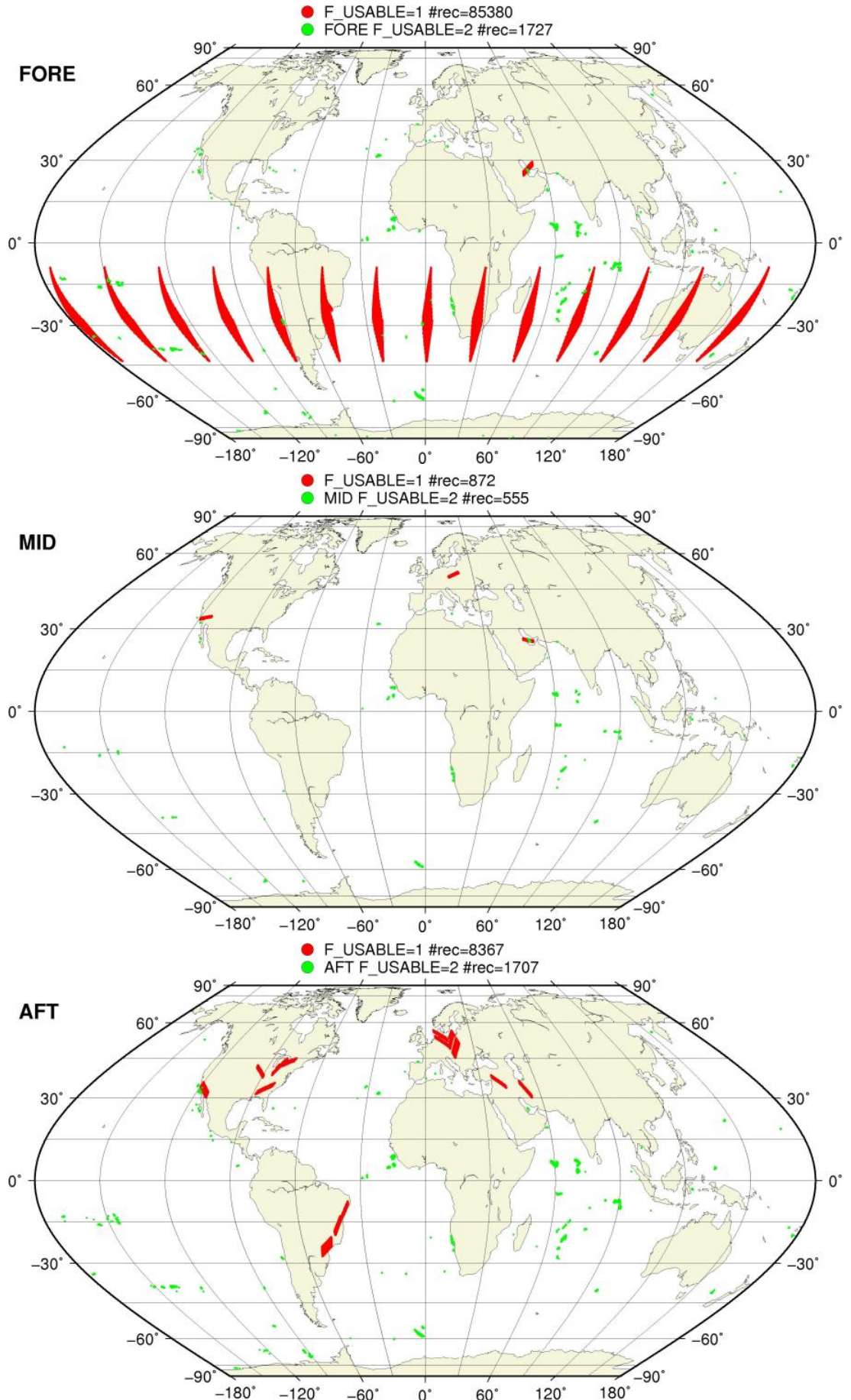
SZR Flagged Data Coverage

F_KP = 1 on map



SZR Flagged Data Coverage

F_USABLE = 1 or 2 on map



SZR Flagged Data Coverage

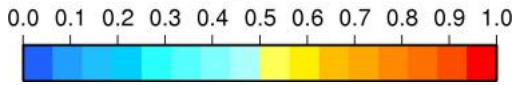
$0 < F_{OA} \leq 1$ on map



SZR Flagged Data Coverage

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

$0 < F_F \leq 1$



$0 < F_V \leq 1$

