

ASCAT DAILY Report

Metop-A

OPE

DAY 2020_218

20200805000000 - 20200805235959

DATA STATISTICS

BASED ON ORBITS (#15)

71578 71579 71580 71581 71582 71583 71584 71585 71586 71587 71588 71589 71590
71591 71592 71593

DB STATISTICS : OPE M02_20200805

| | | | | |
|---------|-------|------|-------|-------|
| SMO 476 | 2.78 | .78 | 1.62 | 5.63 |
| SMR 477 | 6.83 | 1.62 | 2.80 | 11.82 |
| SZF 461 | 1.56 | 2.31 | .35 | 31.43 |
| xxx 478 | 34.84 | 5.71 | 14.10 | 51.83 |

INGATE (STORE) STATISTICS : OPE M02_20200805

| | |
|--|-----------------------------------|
| xxx_1A /fbf/tcdras/store/gsl/ASCA_xxx_1A_M02 | -- number of files (xxx_1A) : 479 |
| SZO_1B /fbf/tcdras/store/gsl/ASCA_SZO_1B_M02 | -- number of files (SZO_1B) : 479 |
| SZR_1B /fbf/tcdras/store/gsl/ASCA_SZR_1B_M02 | -- number of files (SZR_1B) : 479 |
| SZF_1B /fbf/tcdras/store/gsl/ASCA_SZF_1B_M02 | -- number of files (SZF_1B) : 479 |
| SMO_02 /fbf/tcdras/store/gsl/ASCA_SMO_02_M02 | -- number of files (SMO_02) : 479 |
| SMR_02 /fbf/tcdras/store/gsl/ASCA_SMR_02_M02 | -- number of files (SMR_02) : 479 |

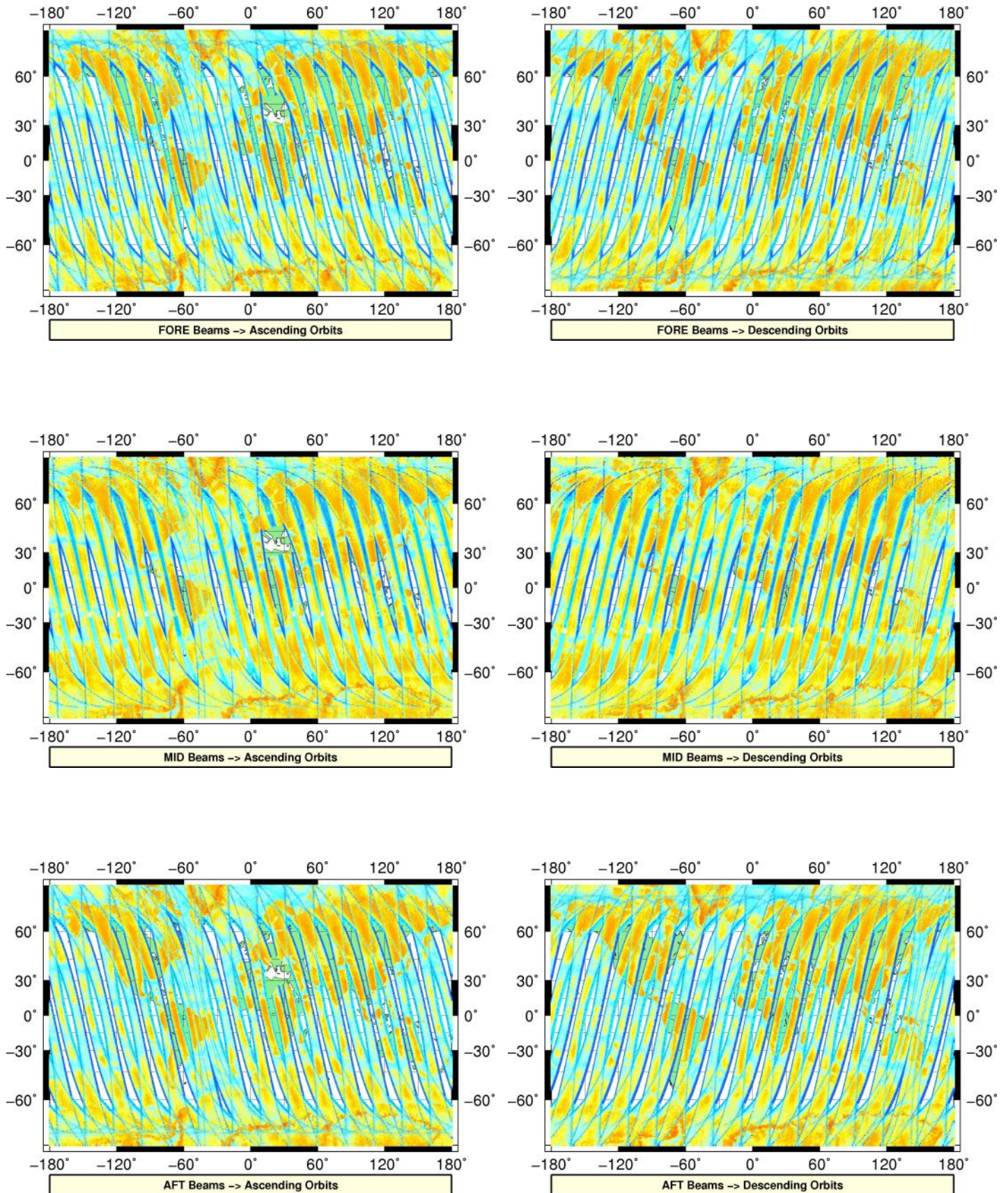
Overview

Configuration and SPHR content

| Parameter | Value |
|--------------------------|---|
| SENSING START-STOP | 20200805000000 - 20200805235959 |
| ORBIT START-STOP | - |
| SATELLITE | M02 |
| 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 | 4 |
| PARAM - Revision ID | 0 |
| 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 | 606666 |
| N_L1A_MDR_B0 | 101111 |
| N_L1A_MDR_B1 | 101111 |
| N_L1A_MDR_B2 | 101111 |
| N_L1A_MDR_B3 | 101111 |
| N_L1A_MDR_B4 | 101111 |
| N_L1A_MDR_B5 | 101111 |
| N_GAPS | 24 |
| TOTAL_GAPS_SIZE | 8387960 |
| N_HKTM_PACKETS_RECEIVED | 16090 |
| 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 | 1054704 |
| N_F_LAND | 49061336 |
| N_F_GEO | 3259052 |
| 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 |

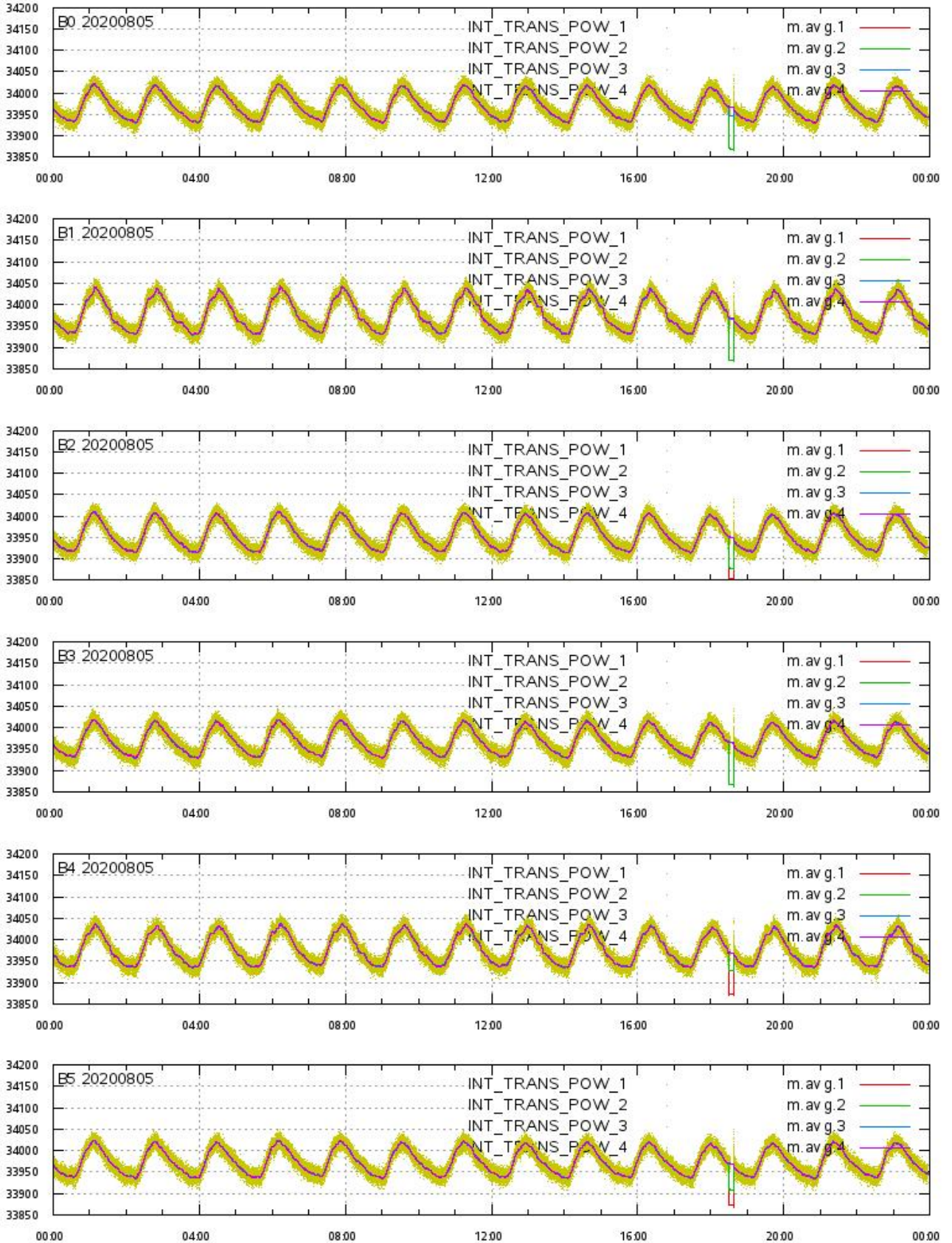
L1A Product

Echo Data Coverage maps



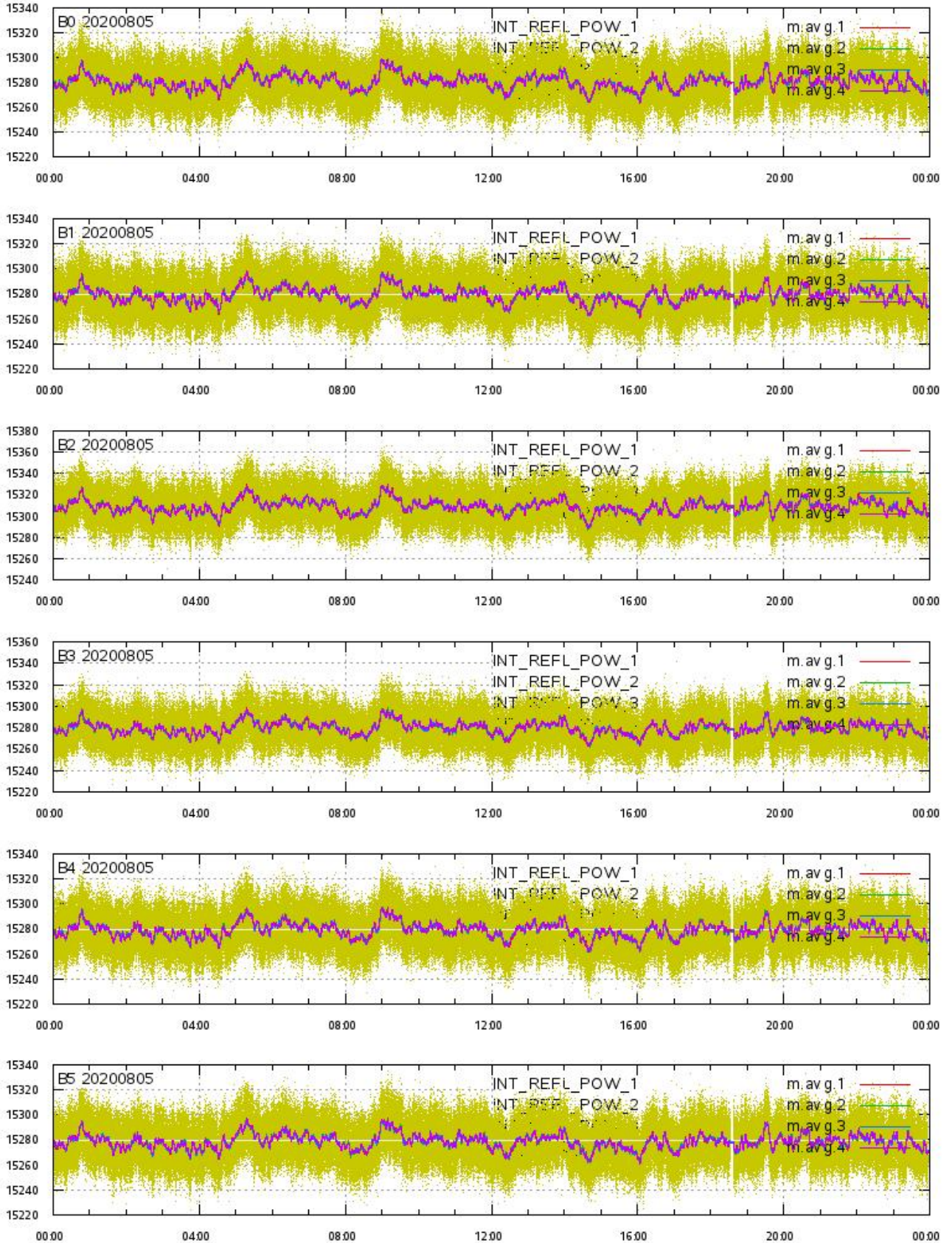
L1A Product

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



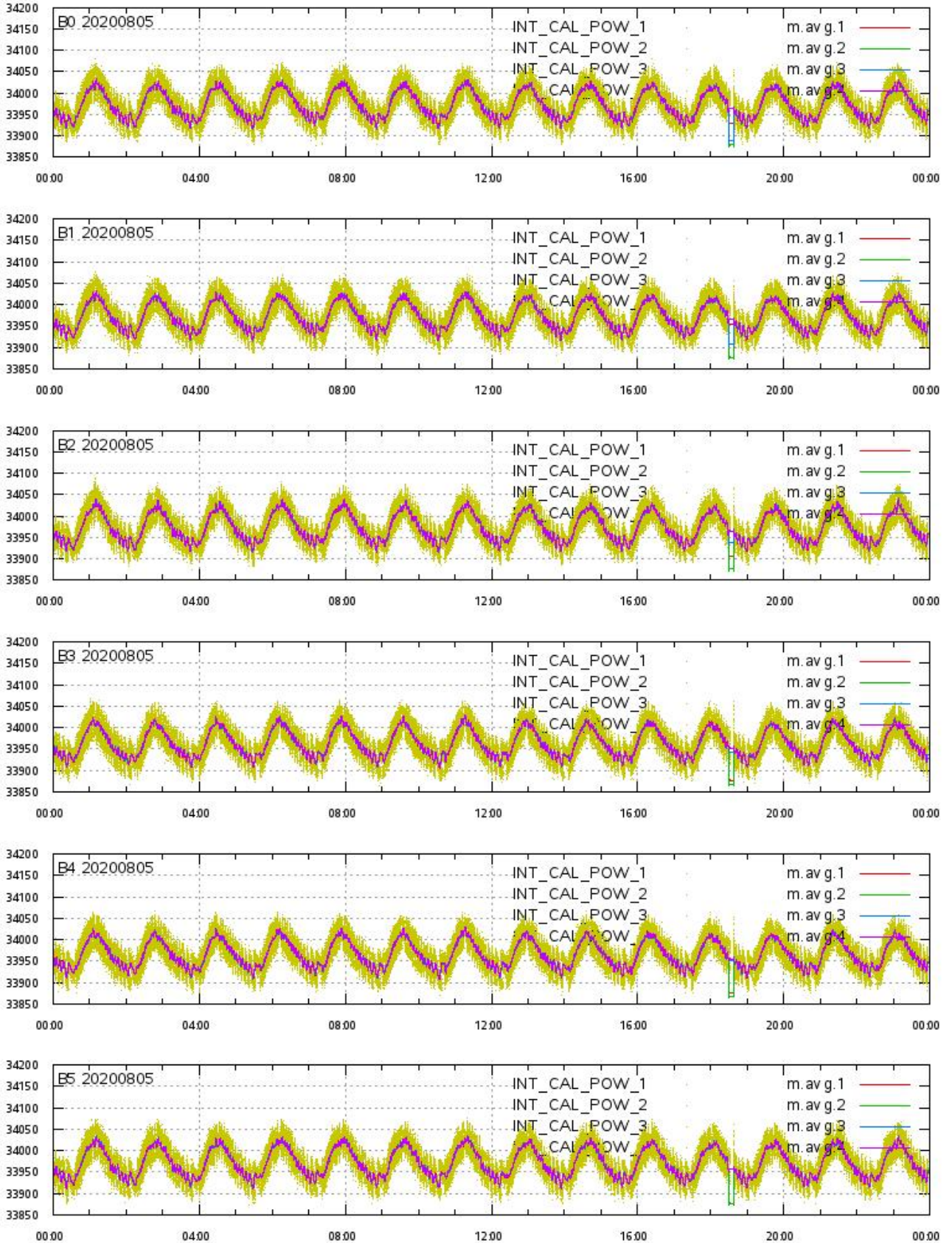
L1A Product

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



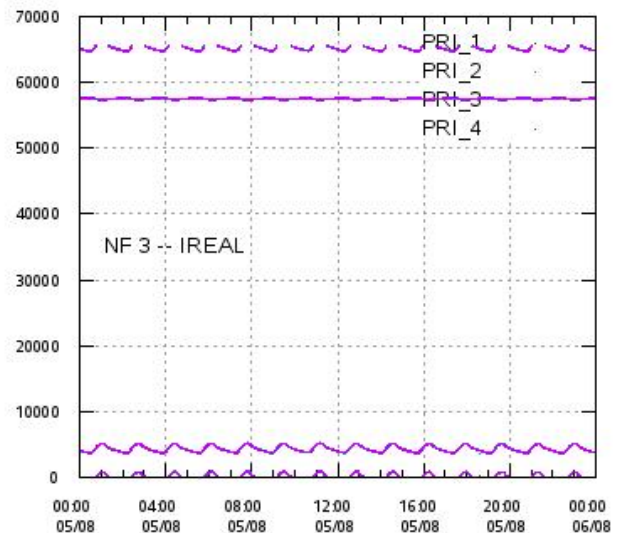
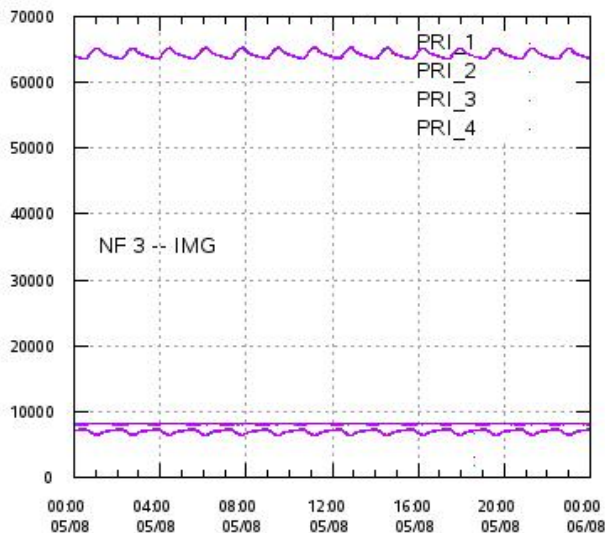
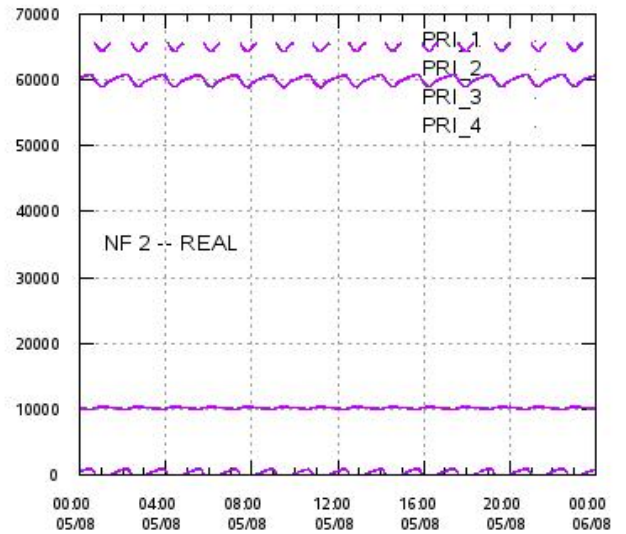
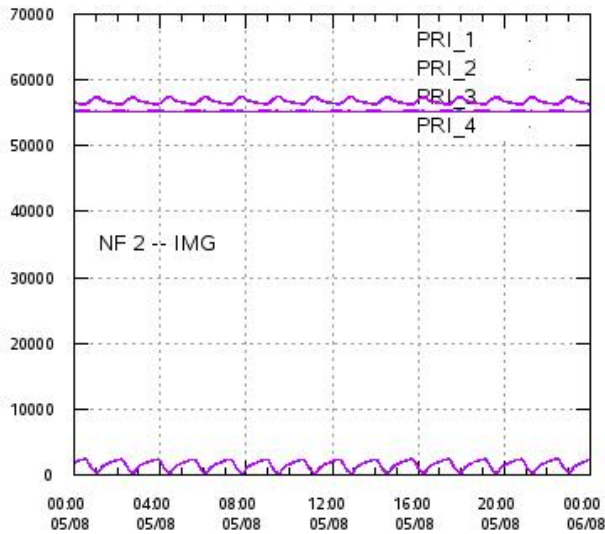
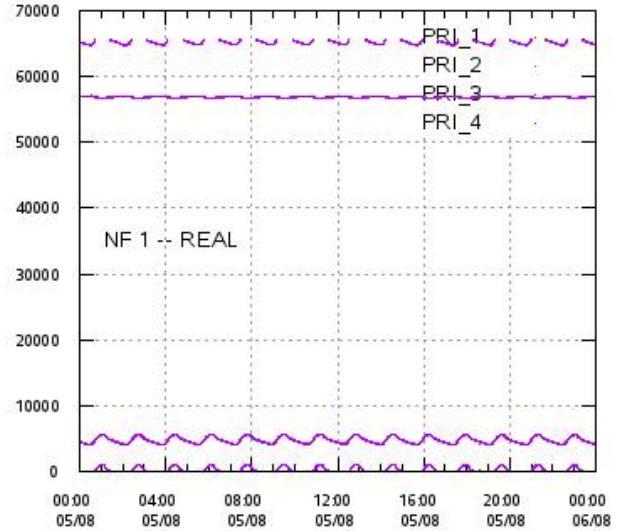
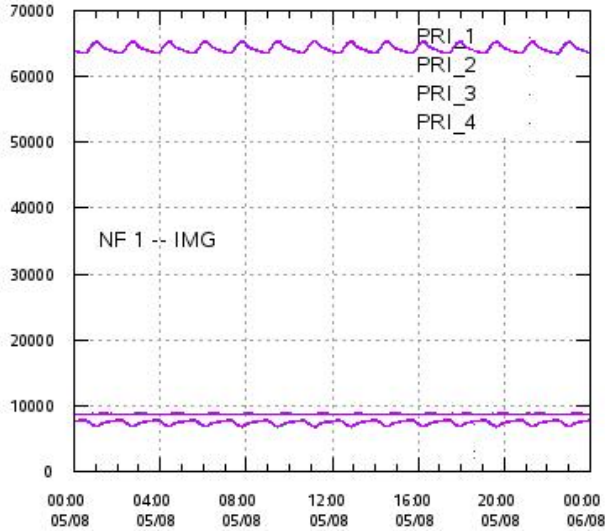
L1A Product

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



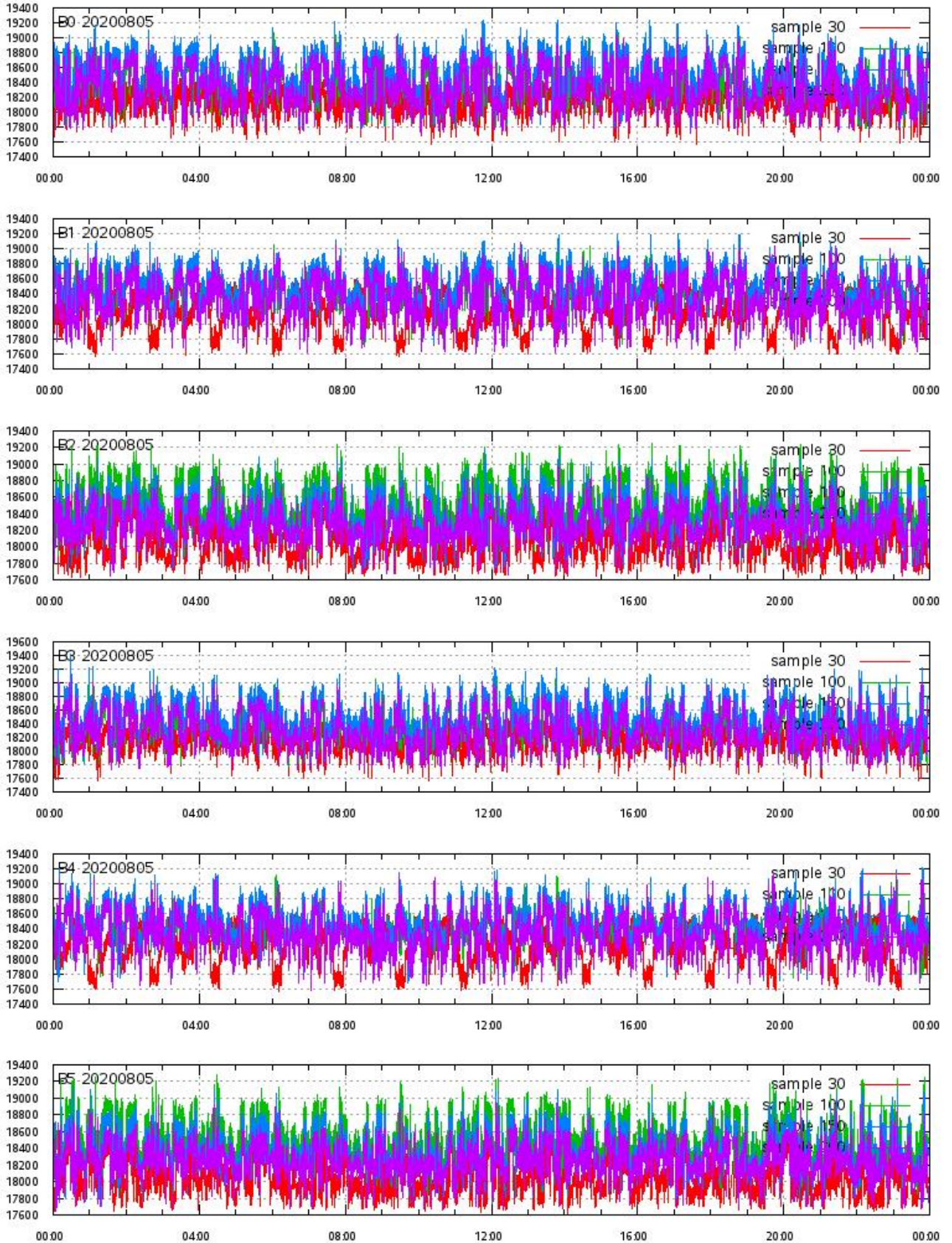
L1A Product

Calibration Powers vs. UTC_LOCALISATION



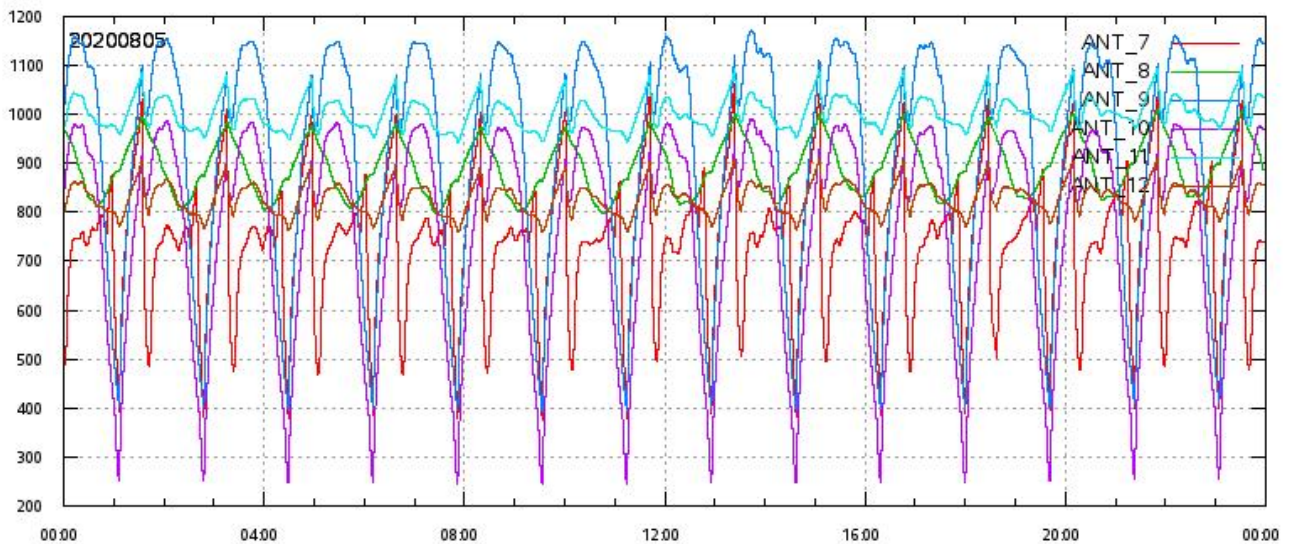
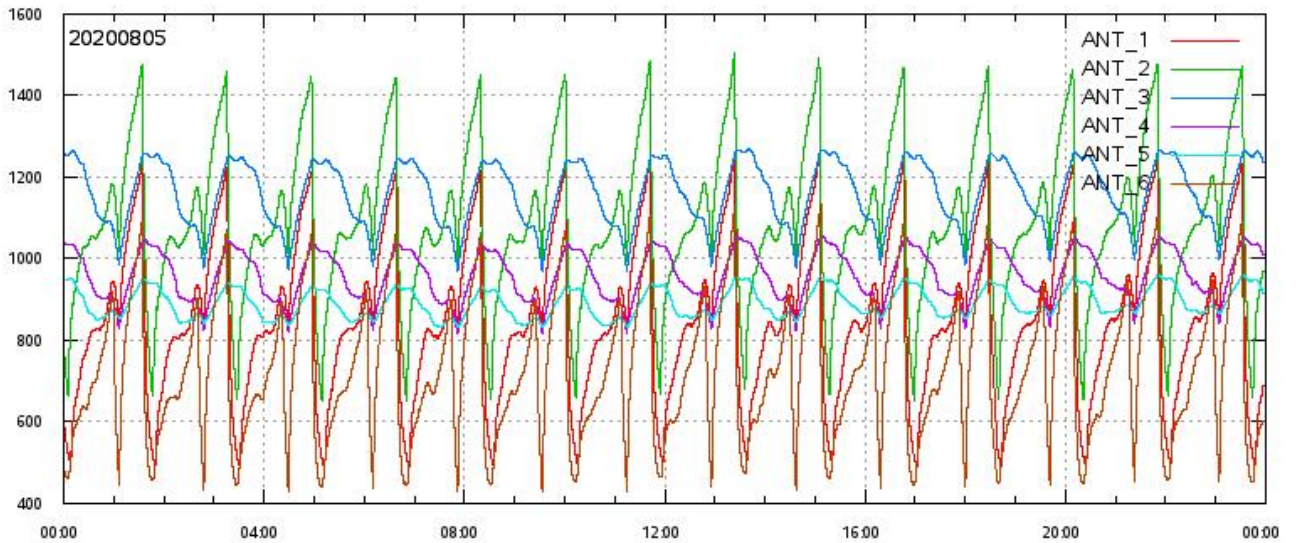
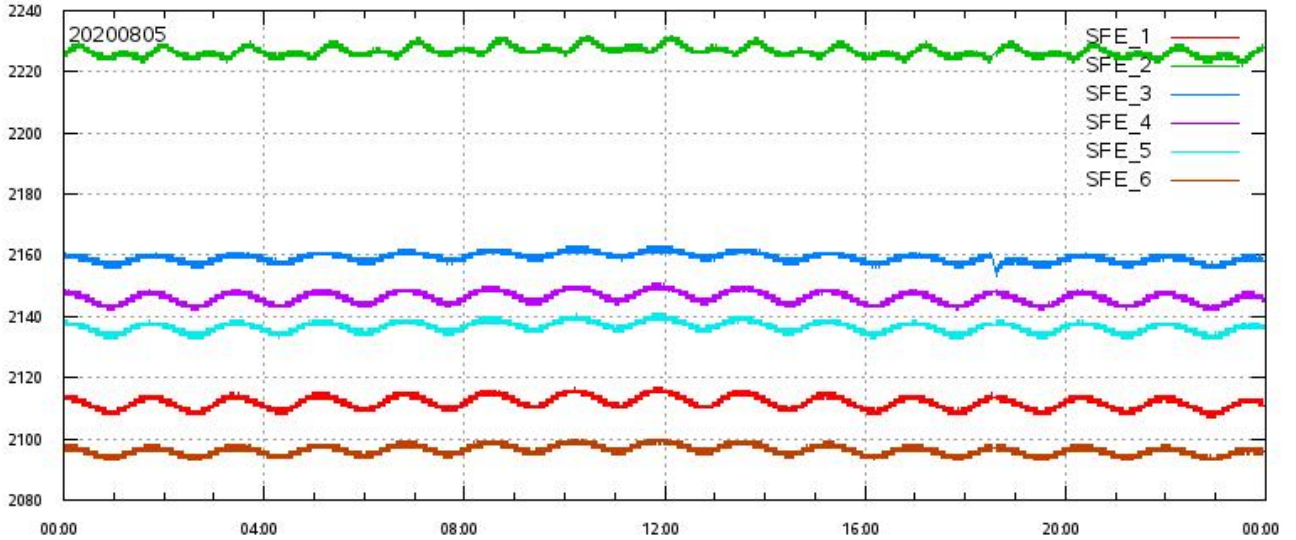
L1A Product

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



L1A Product

SFE & ANT Temperatures (raw) vs. UTC_LOCALISATION

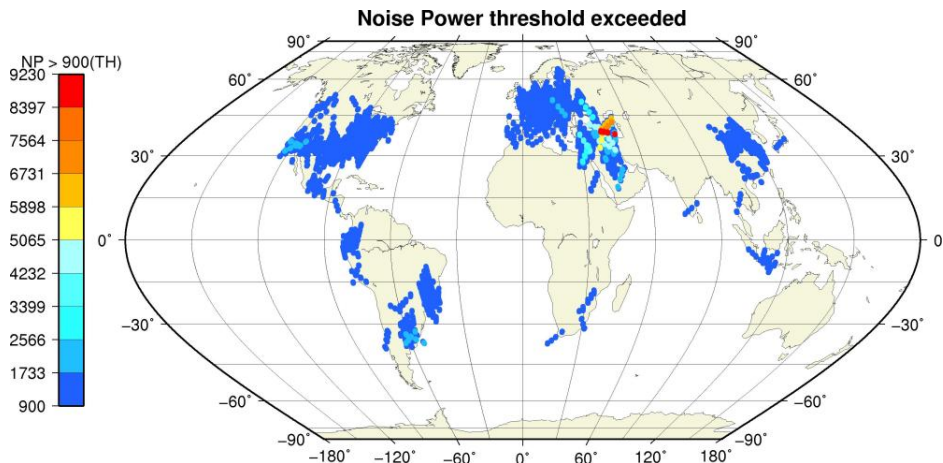
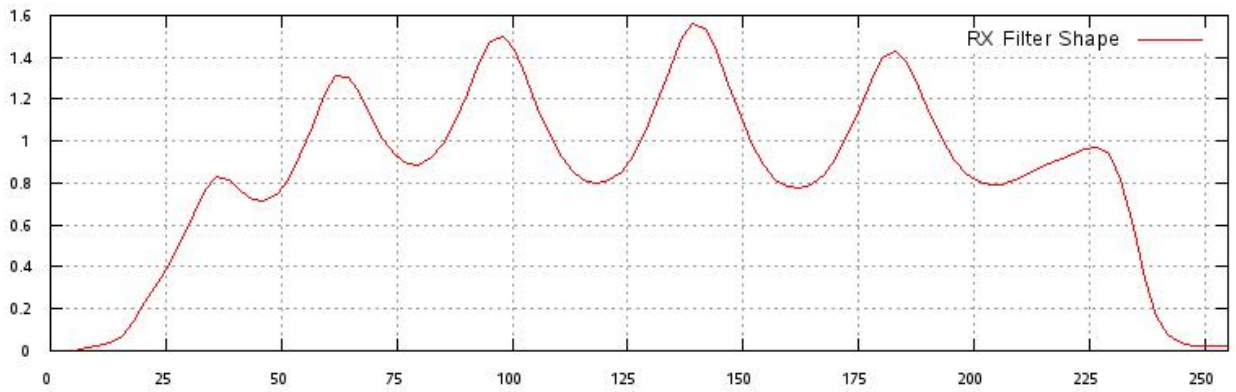
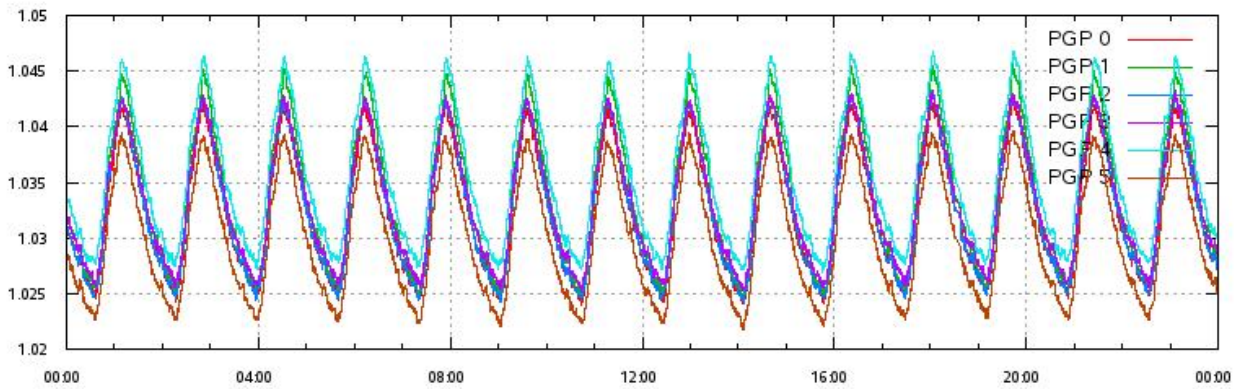
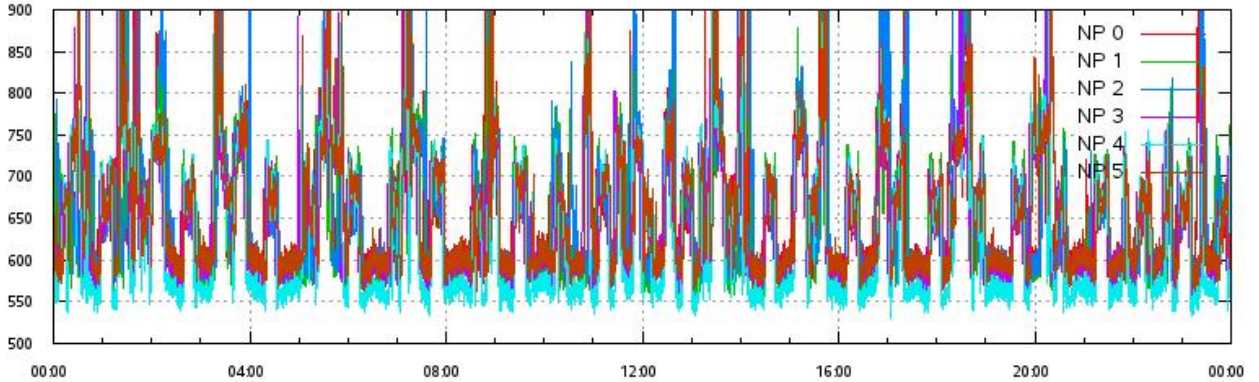


L1A Product

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

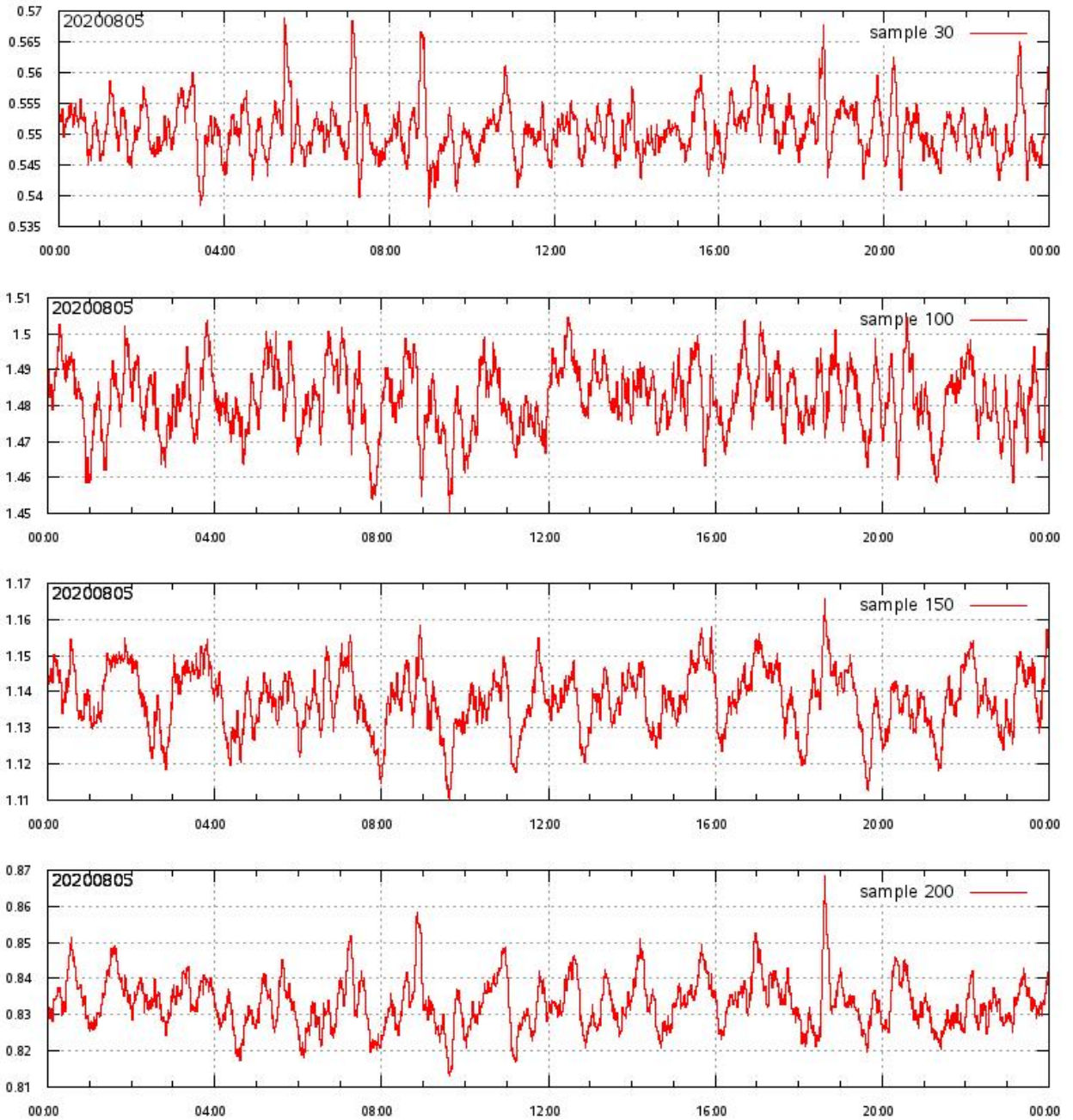
RX Filter Shape average over sample number

Noise Power threshold exceeded (TH=900) on map



L1A Product

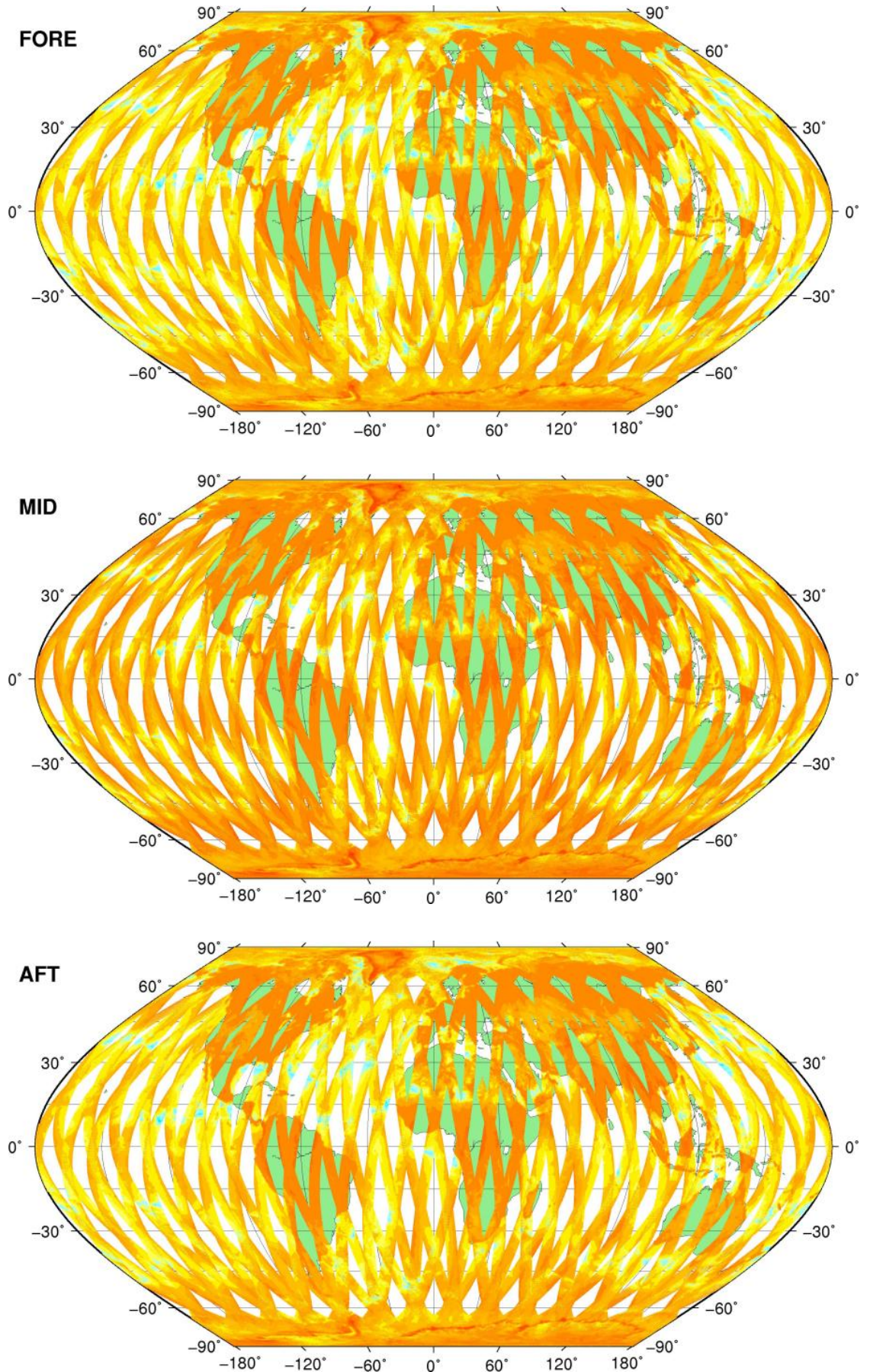
RX filter shape in detail for sample 30,100,150, 200 & max vs. UTC_LOCALISATION



SZO Product

Sigma0_TRIP Coverage map

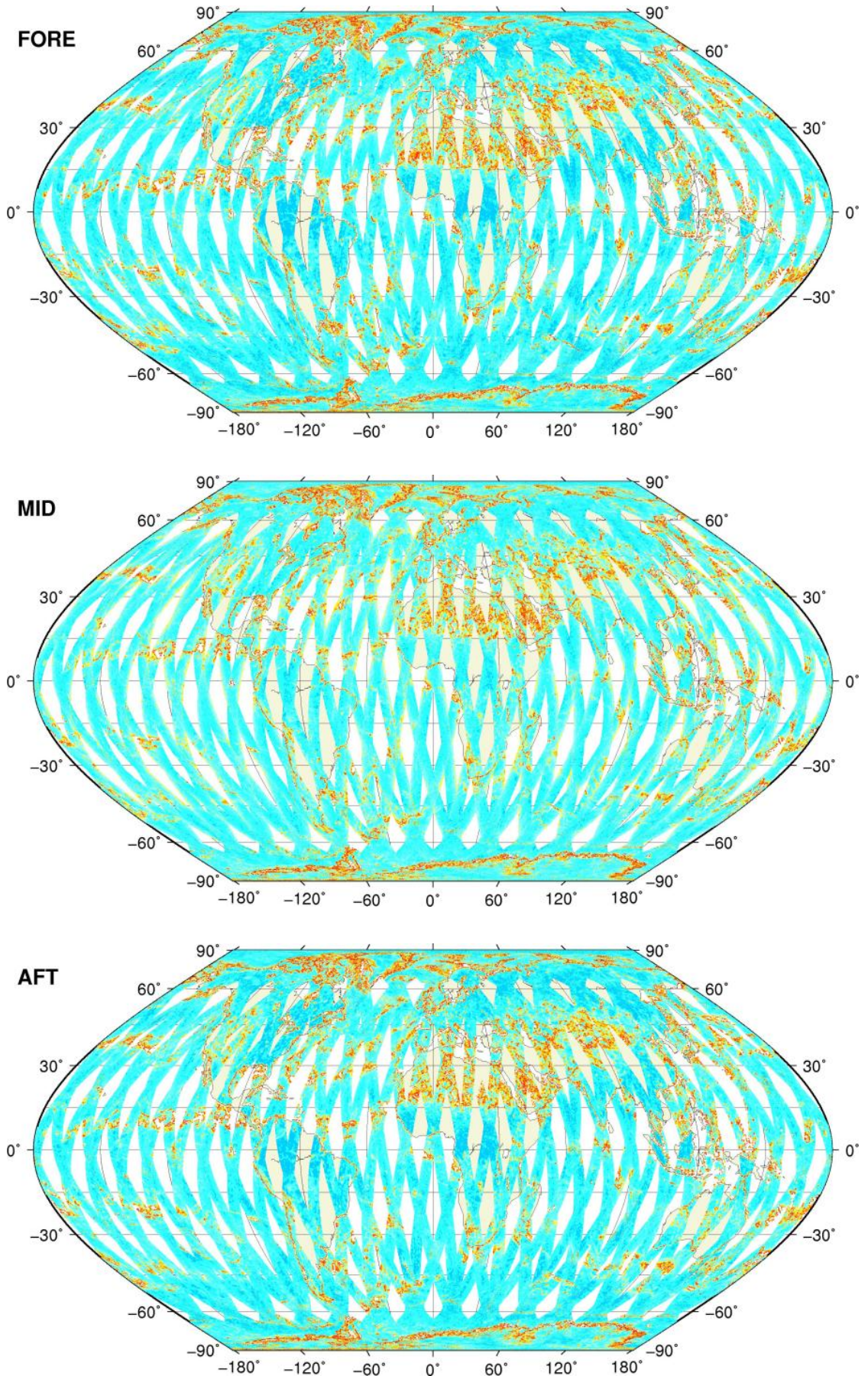
SIGMA0_TRIP Coverage



SZO Product

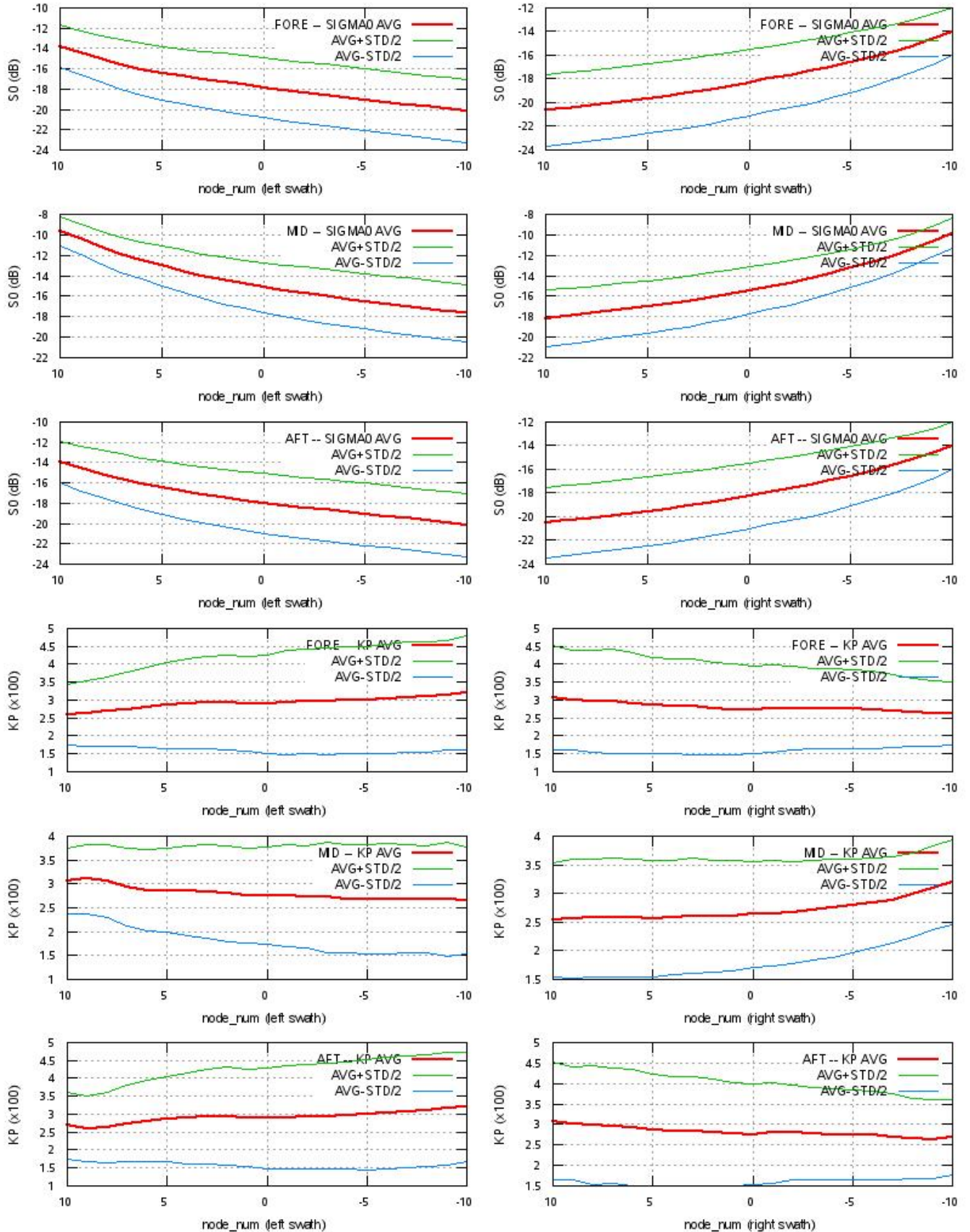
Kp Coverage map

Kp Coverage



SZO Product

S0 - Kp Statistics



SZO Product

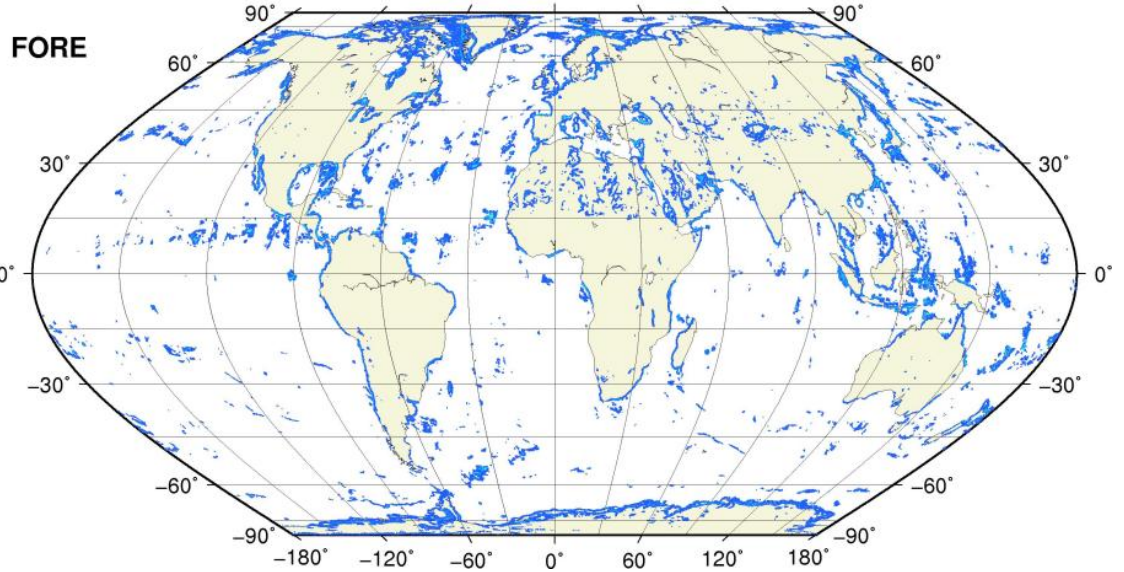
Kp Outliers on map

$0.06 < Kp < 1.0$

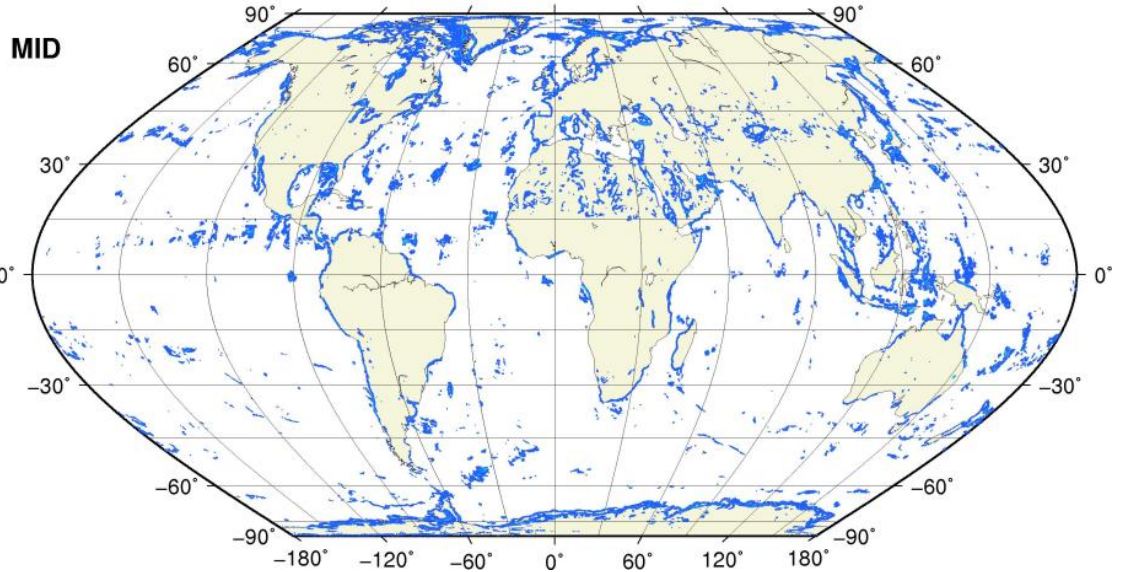
0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0



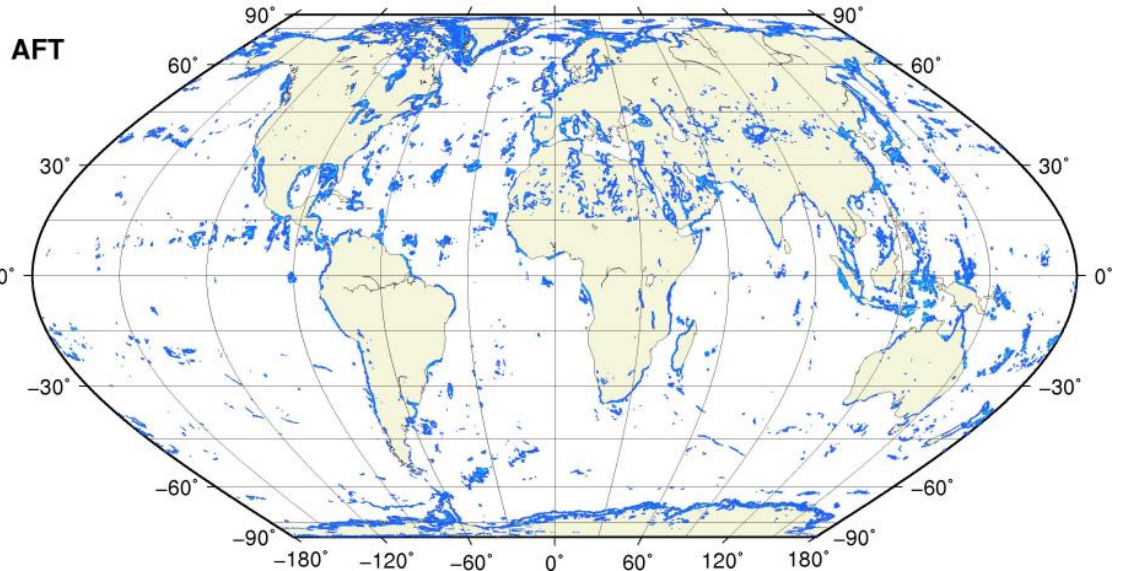
● KP = 1.0 #rec=0



● KP = 1.0 #rec=0



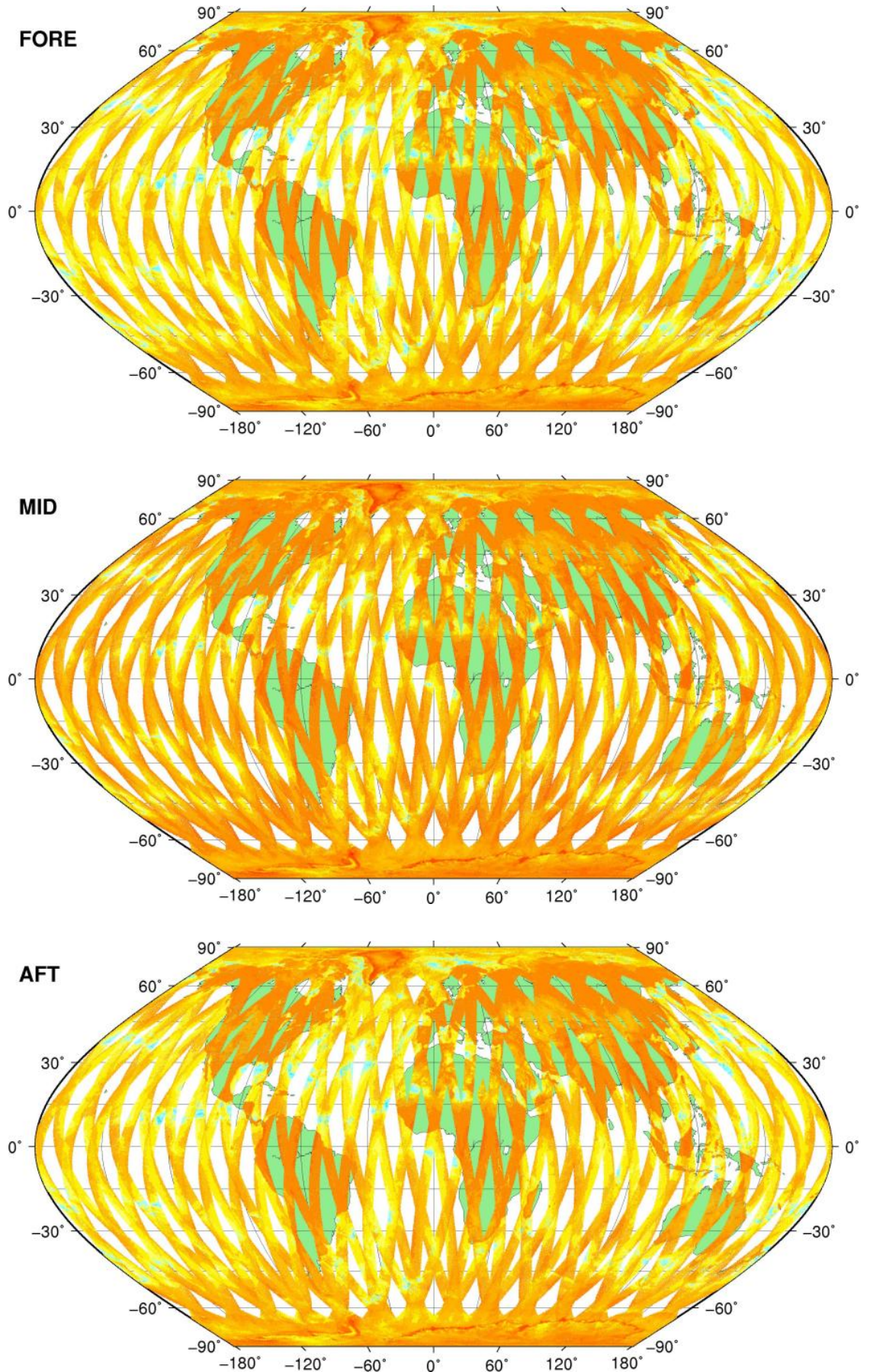
● KP = 1.0 #rec=0



SZR Product

Sigma0_TRIP Coverage map

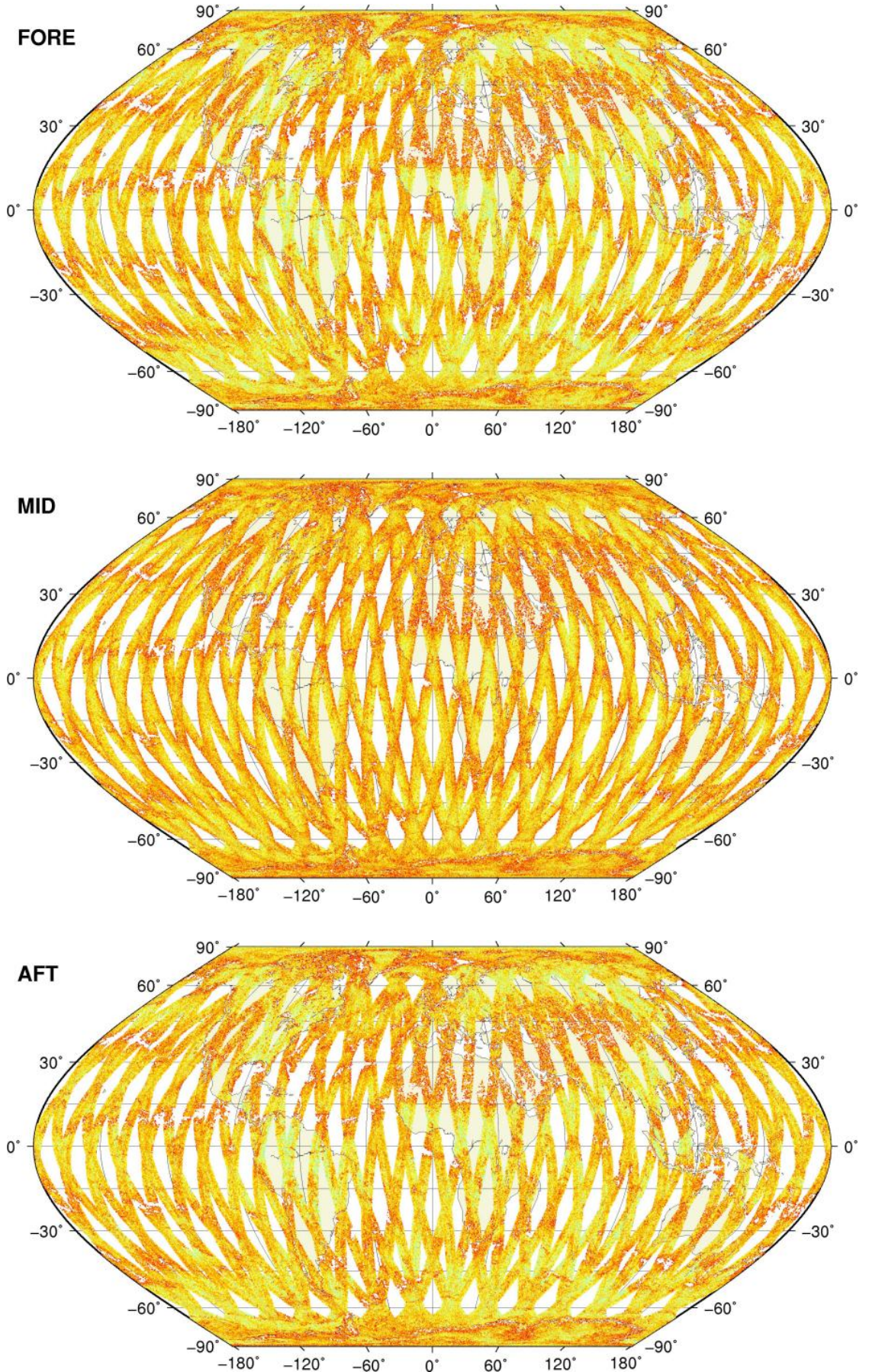
SIGMA0_TRIP Coverage



SZR Product

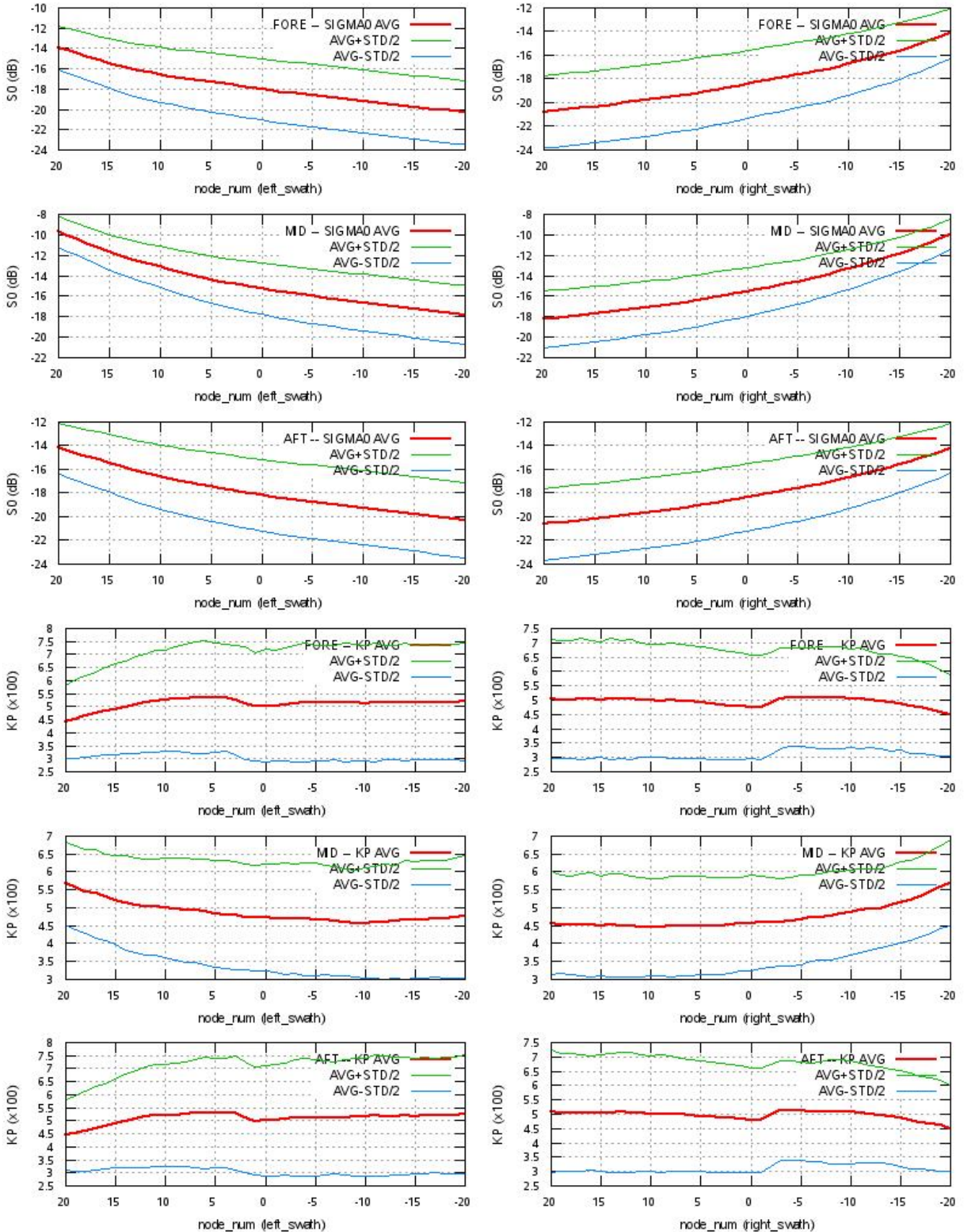
Kp Coverage map

Kp Coverage



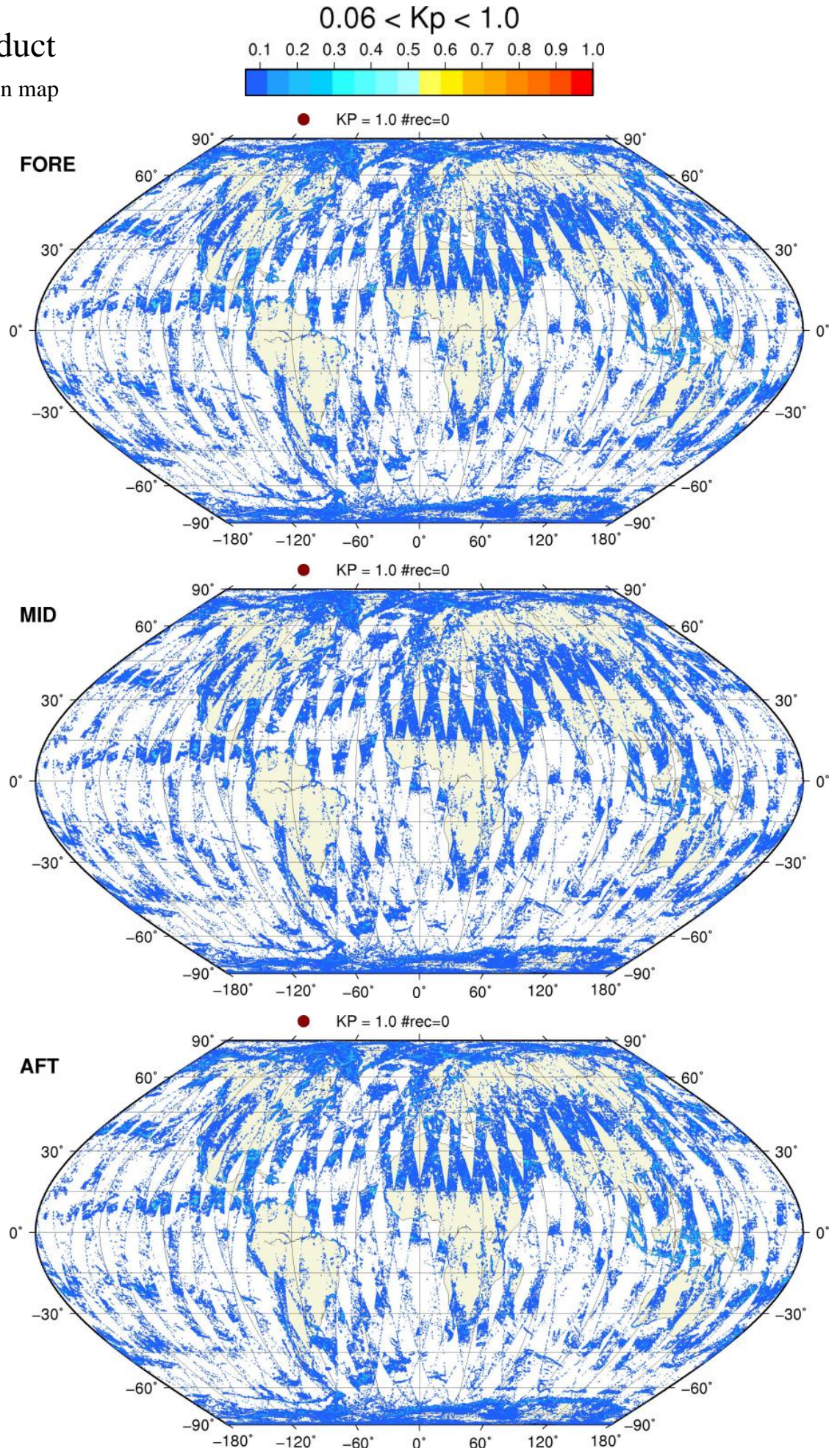
SZR Product

S0 - Kp Statistics



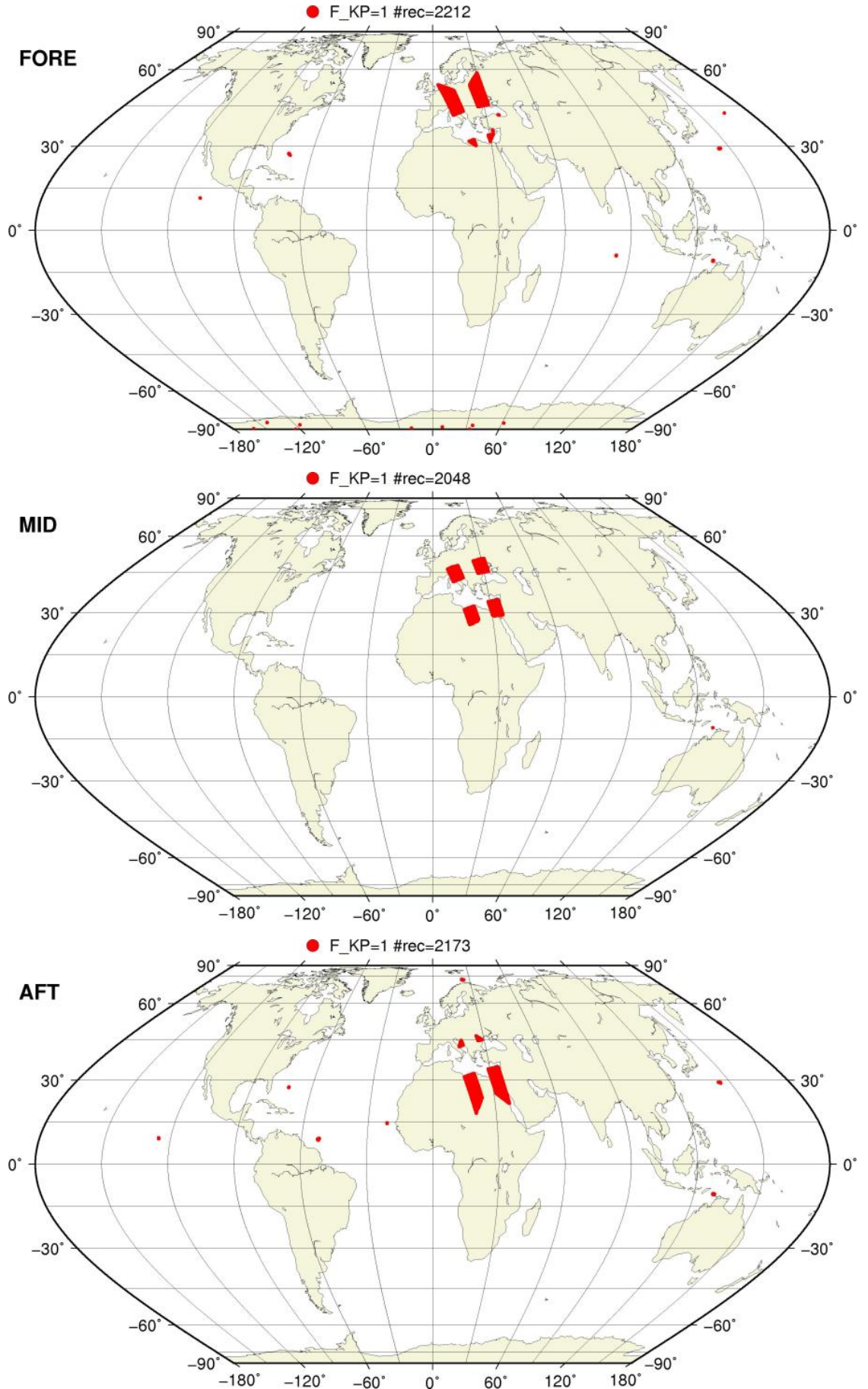
SZR Product

Kp Outliers on map



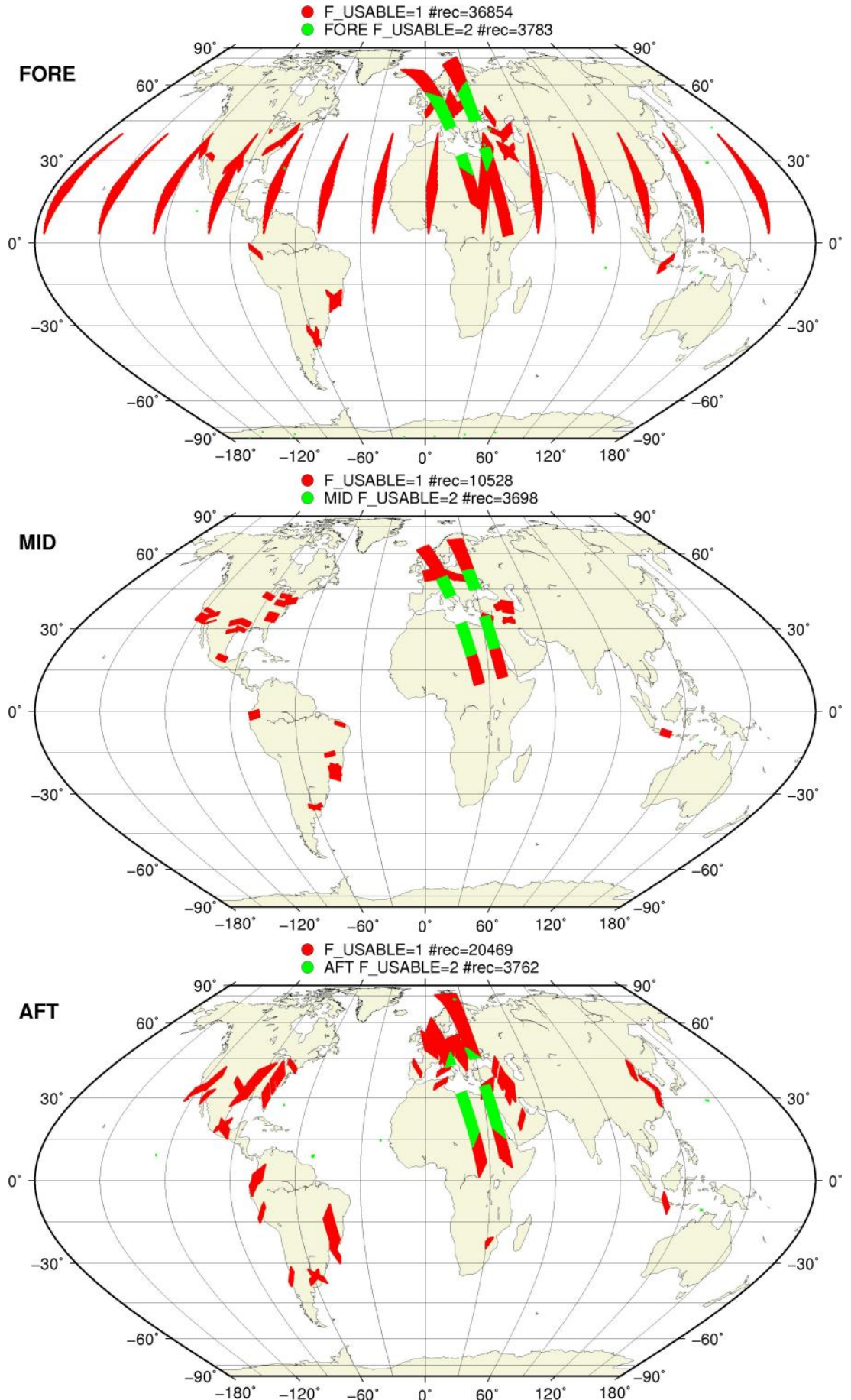
SZO Flagged Data Coverage

F_KP = 1 on map



SZO Flagged Data Coverage

F_USABLE = 1 or 2 on map



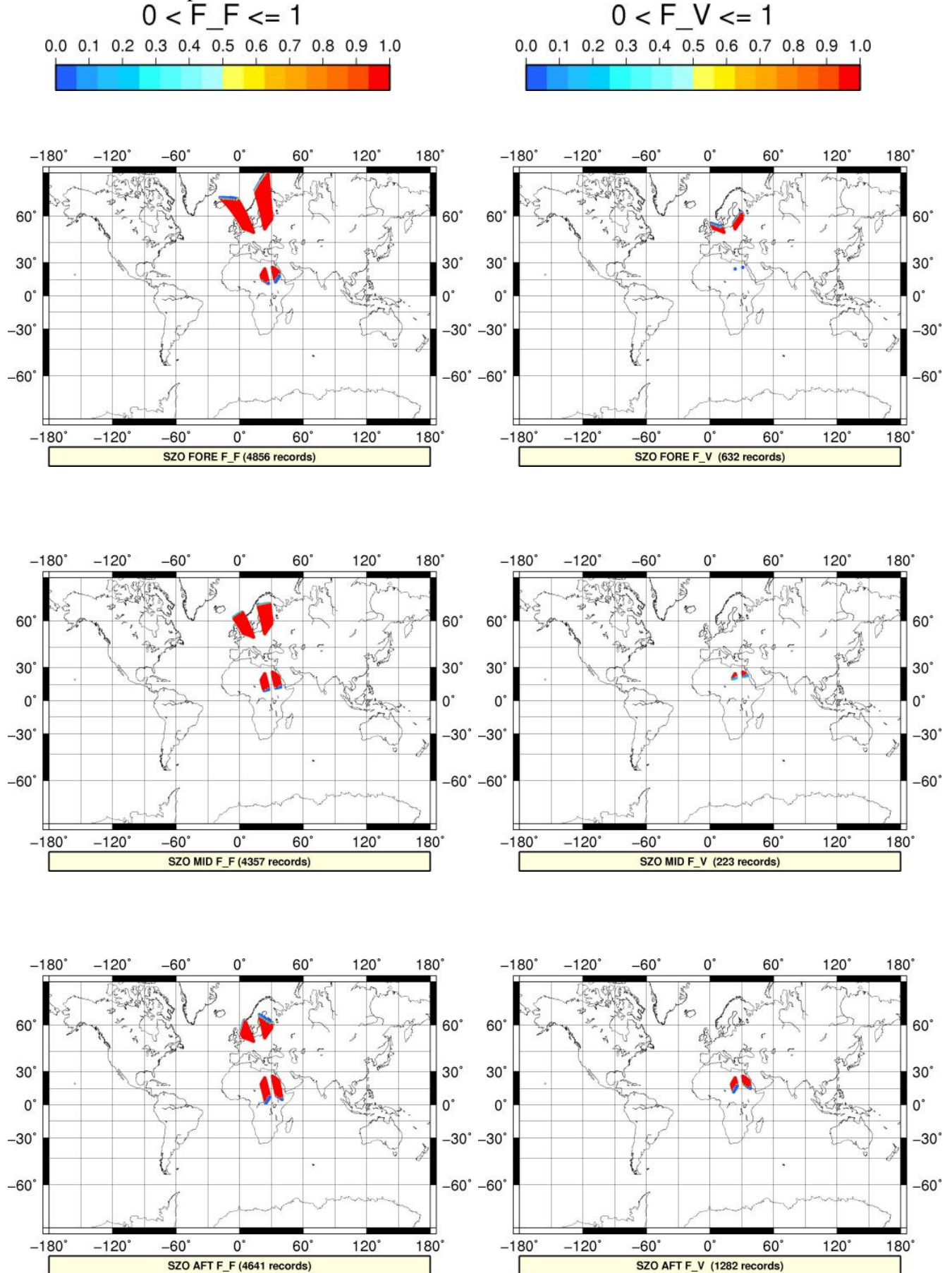
SZO Flagged Data Coverage

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



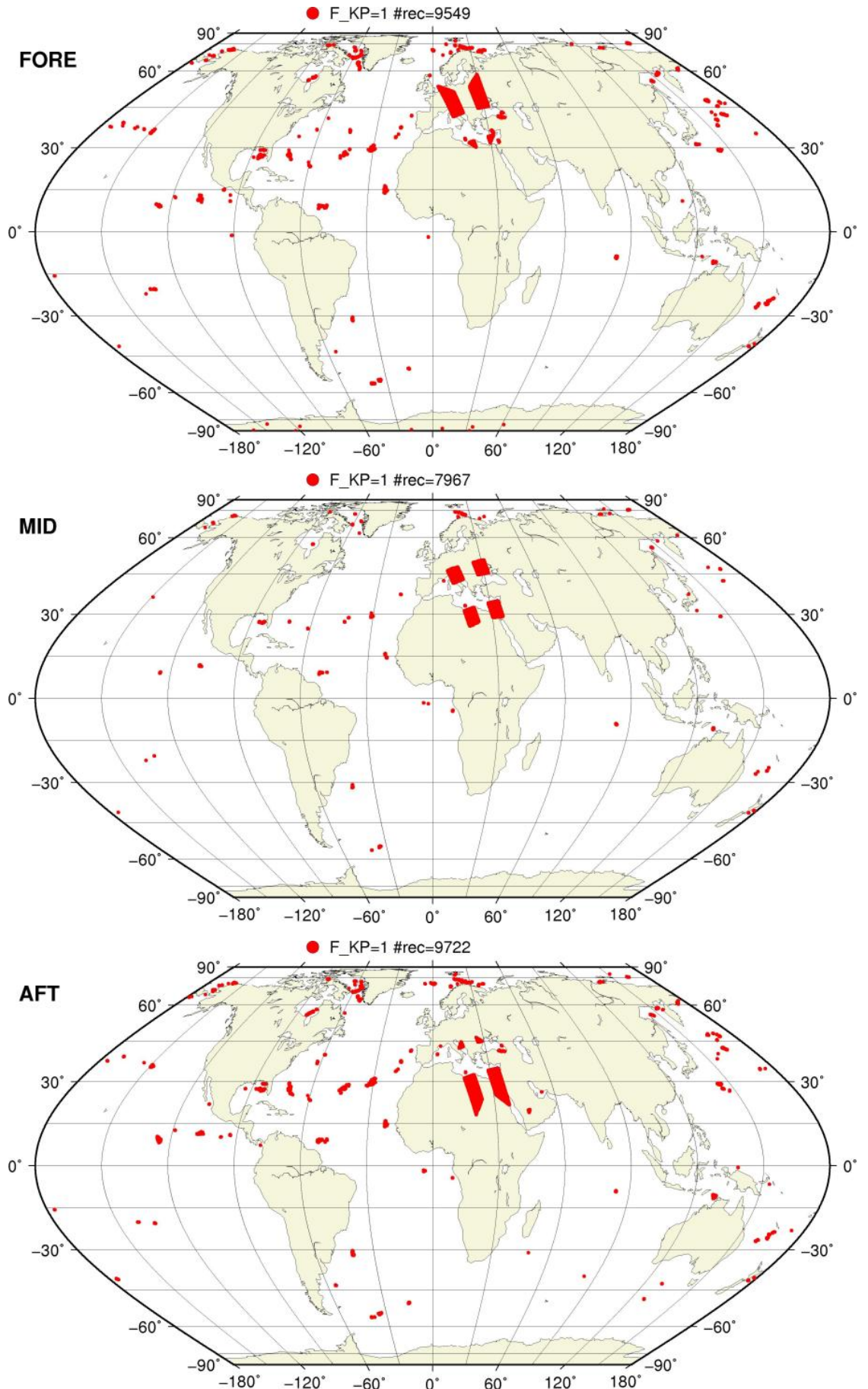
SZO Flagged Data Coverage

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



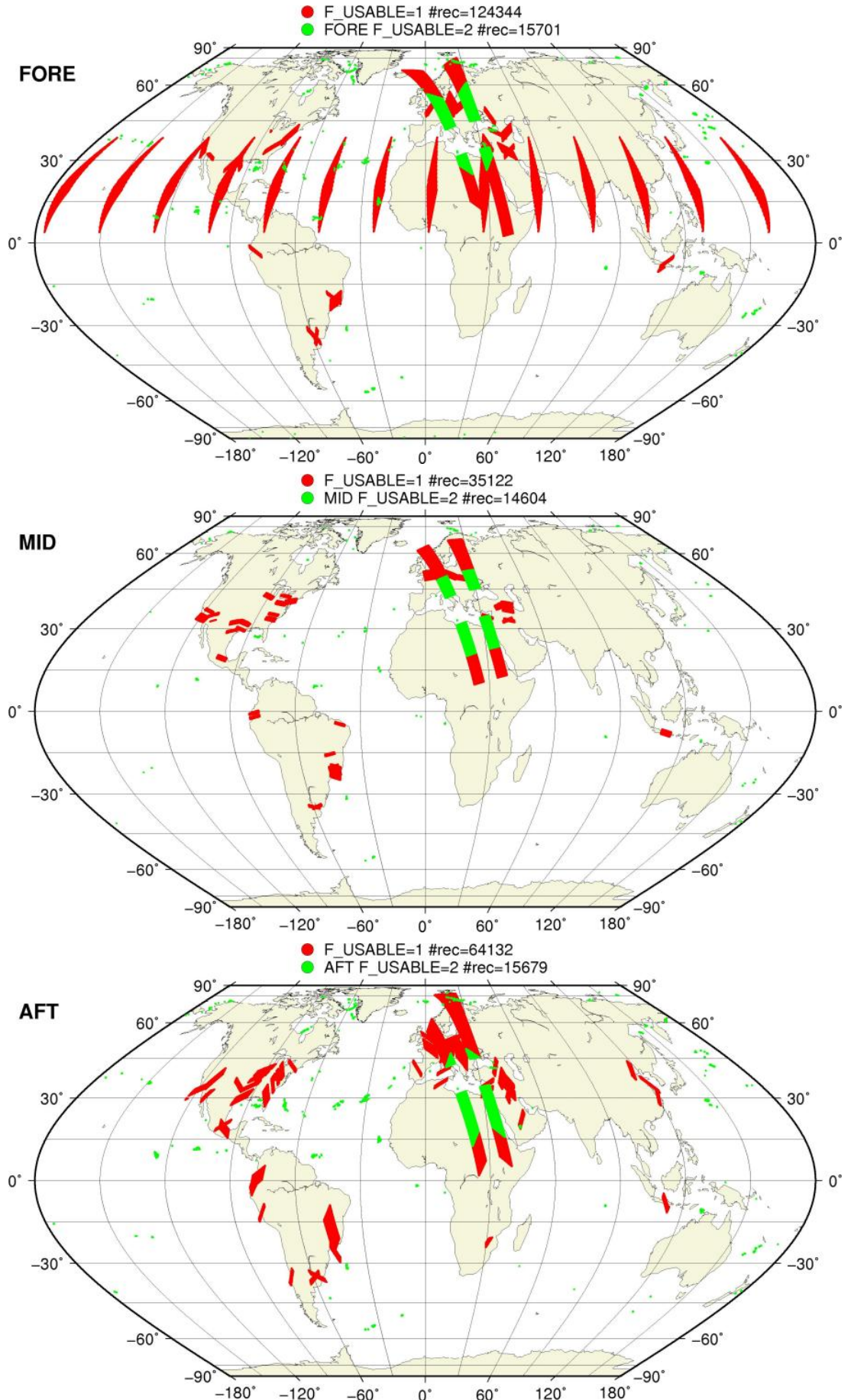
SZR Flagged Data Coverage

F_KP = 1 on map



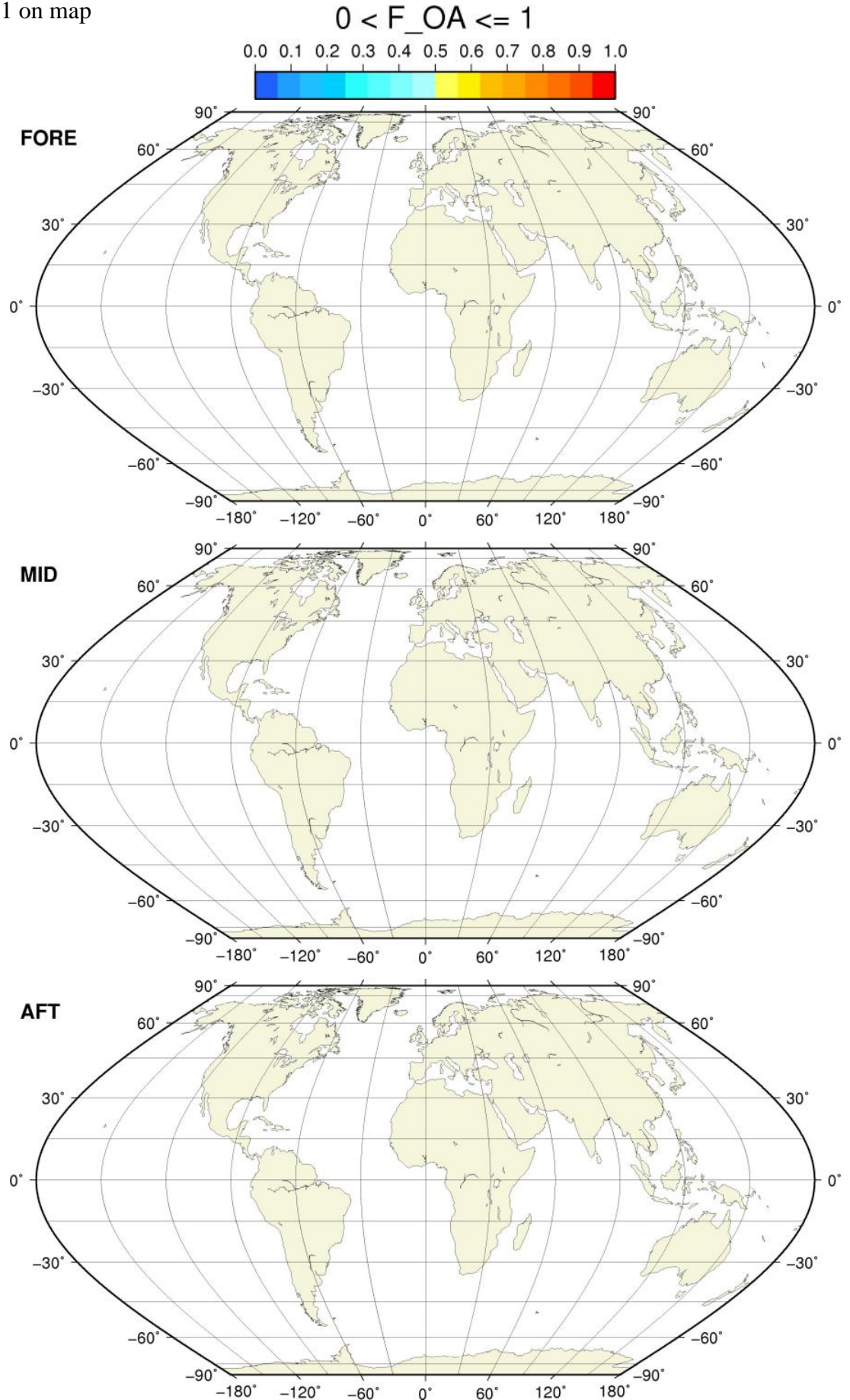
SZR Flagged Data Coverage

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 <=1 on map

