# ASCAT DAILY Report

## Metop-A

## OPE

## DAY 2019_356

## 20191222000000 - 20191222235959

DATA STATISTICS

```
BASED ON ORBITS (#15)

68353 68354 68355 68356 68357 68358 68359 68360 68361 68362 68363 68364 68365
68366 68367 68368

DB STATISTICS : OPE M02_20191222

SMO 480    1.30     .42     .66    3.21
SMR 480    3.33     .96    2.16    8.41
SZF 479     .39    1.39     .12   22.93
xxx 480    9.04    3.84    6.27   27.72


INGATE (STORE) STATISTICS : OPE M02_20191222

xxx_1A /fbf/tcdras/store/gs1/ASCA_xxx_1A_M02 -- number of files (xxx_1A) : 480
SZO_1B /fbf/tcdras/store/gs1/ASCA_SZO_1B_M02 -- number of files (SZO_1B) : 480
SZR_1B /fbf/tcdras/store/gs1/ASCA_SZR_1B_M02 -- number of files (SZR_1B) : 480
SZF_1B /fbf/tcdras/store/gs1/ASCA_SZF_1B_M02 -- number of files (SZF_1B) : 480
SMO_02 /fbf/tcdras/store/gs1/ASCA_SMO_02_M02 -- number of files (SMO_02) : 480
SMR_02 /fbf/tcdras/store/gs1/ASCA_SMR_02_M02 -- number of files (SMR_02) : 480
```

MOD/C/HB <Helmut.Bauch@eumetsat.int>

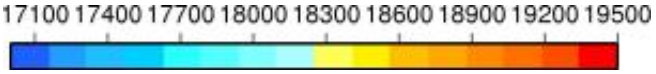
# Overview

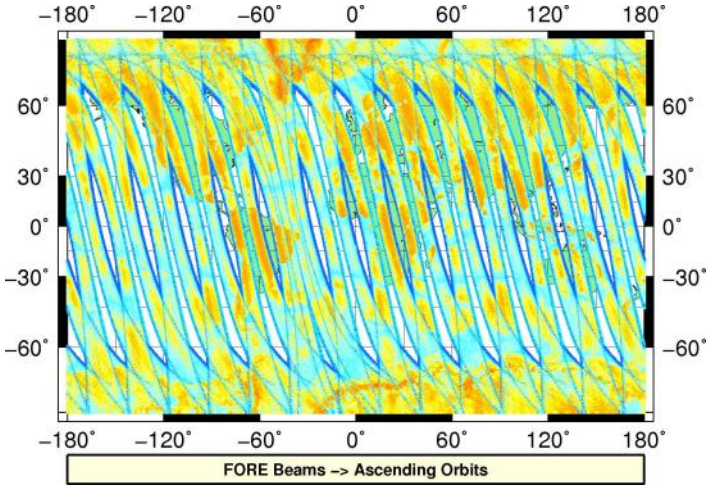
## Configuration and SPHR content

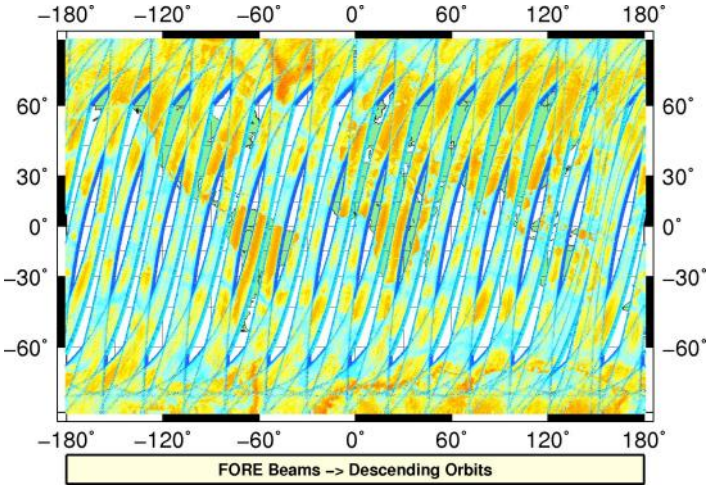
| Parameter | Value |
|---|---|
| SENSING START-STOP | 20191222000000 - 20191222235959 |
| ORBIT START-STOP | - |
| SATELLITE | M02 |
| SW - DPU Version | 3.9 (57) |
| SW - ICU Version | 2.03 (35) |
| PARAM - Drive Level ID | 0 (Nominal drive level as defined in the active DPU Data Set) |
| PARAM - DPU 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 | 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 | 16158 |
| 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 | 1054527 |
| N_F_LAND | 49636126 |
| N_F_GEO | 3281367 |
| 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 |

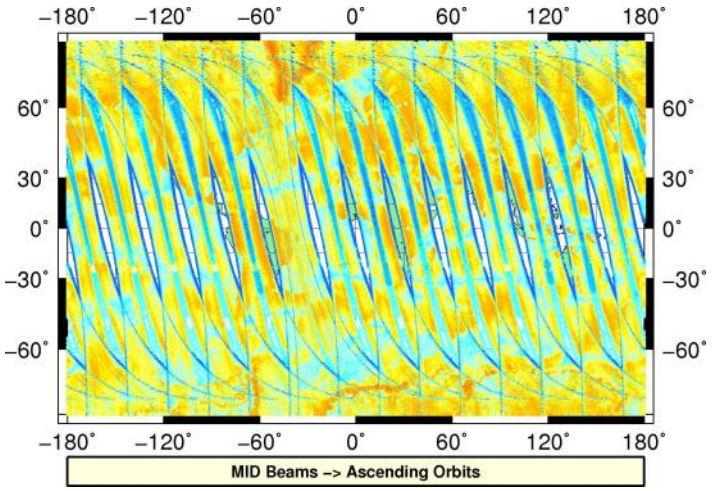
# L1A Product

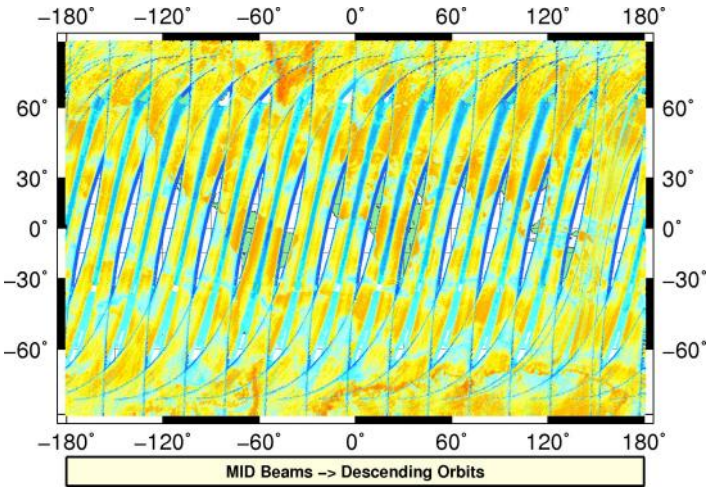
Echo Data Coverage maps

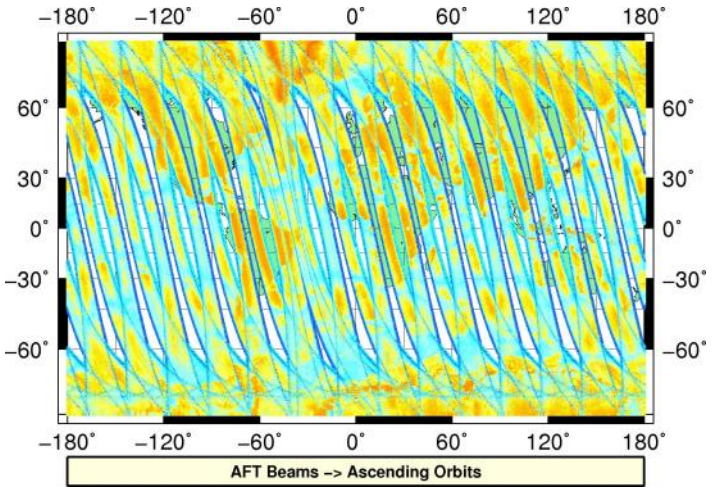


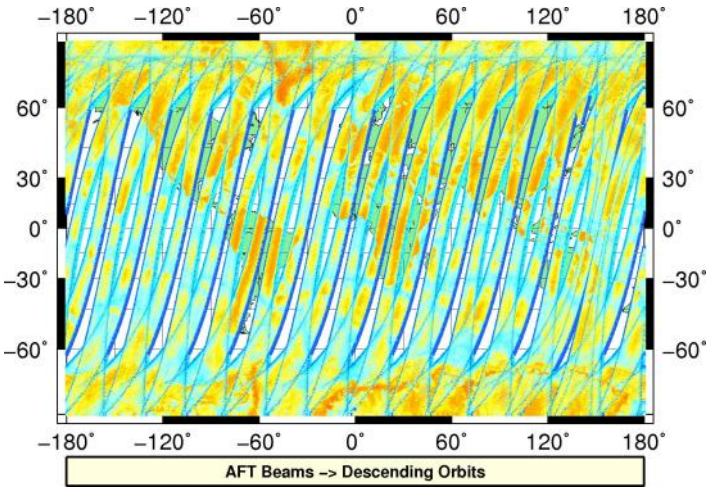



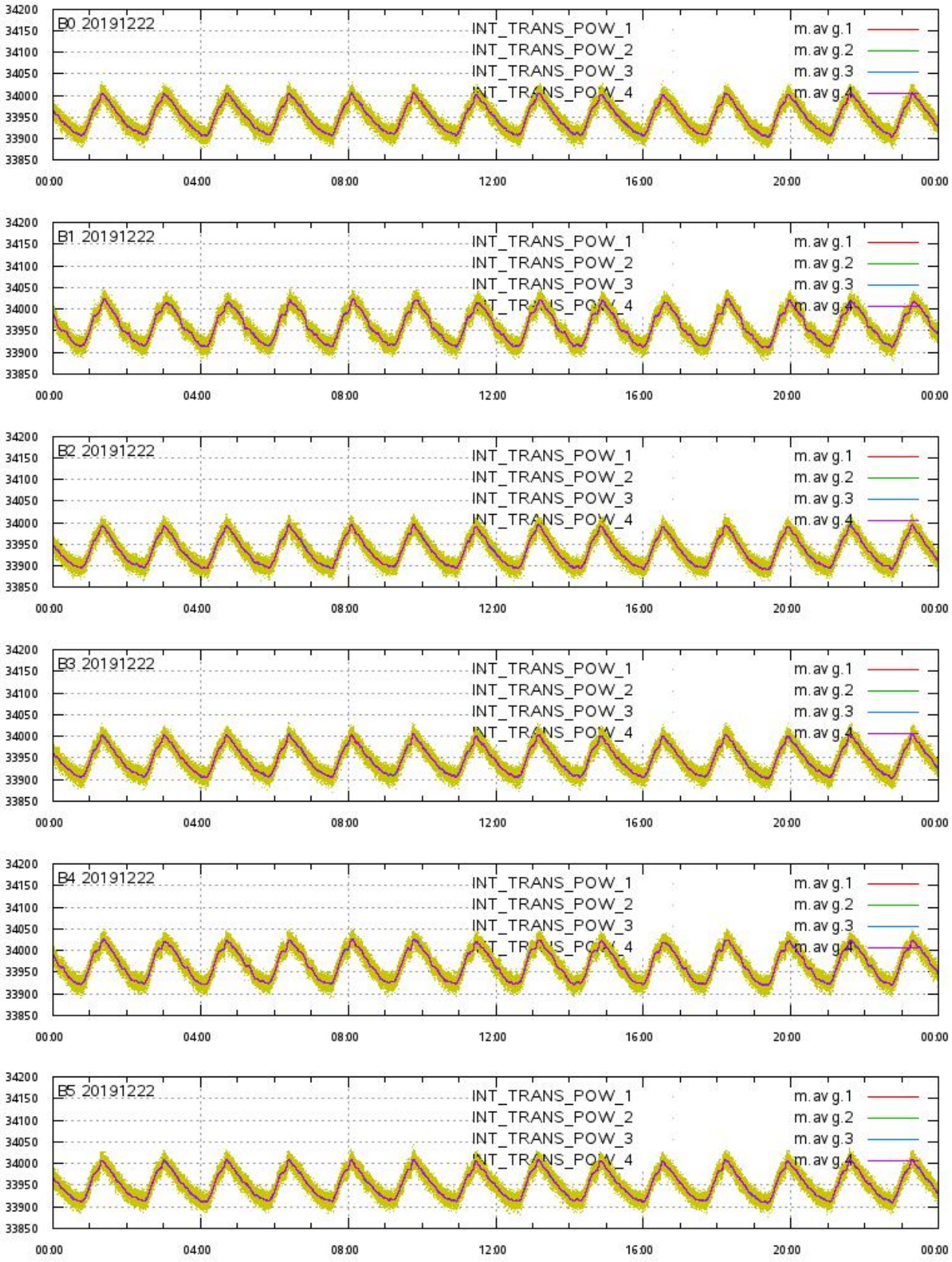



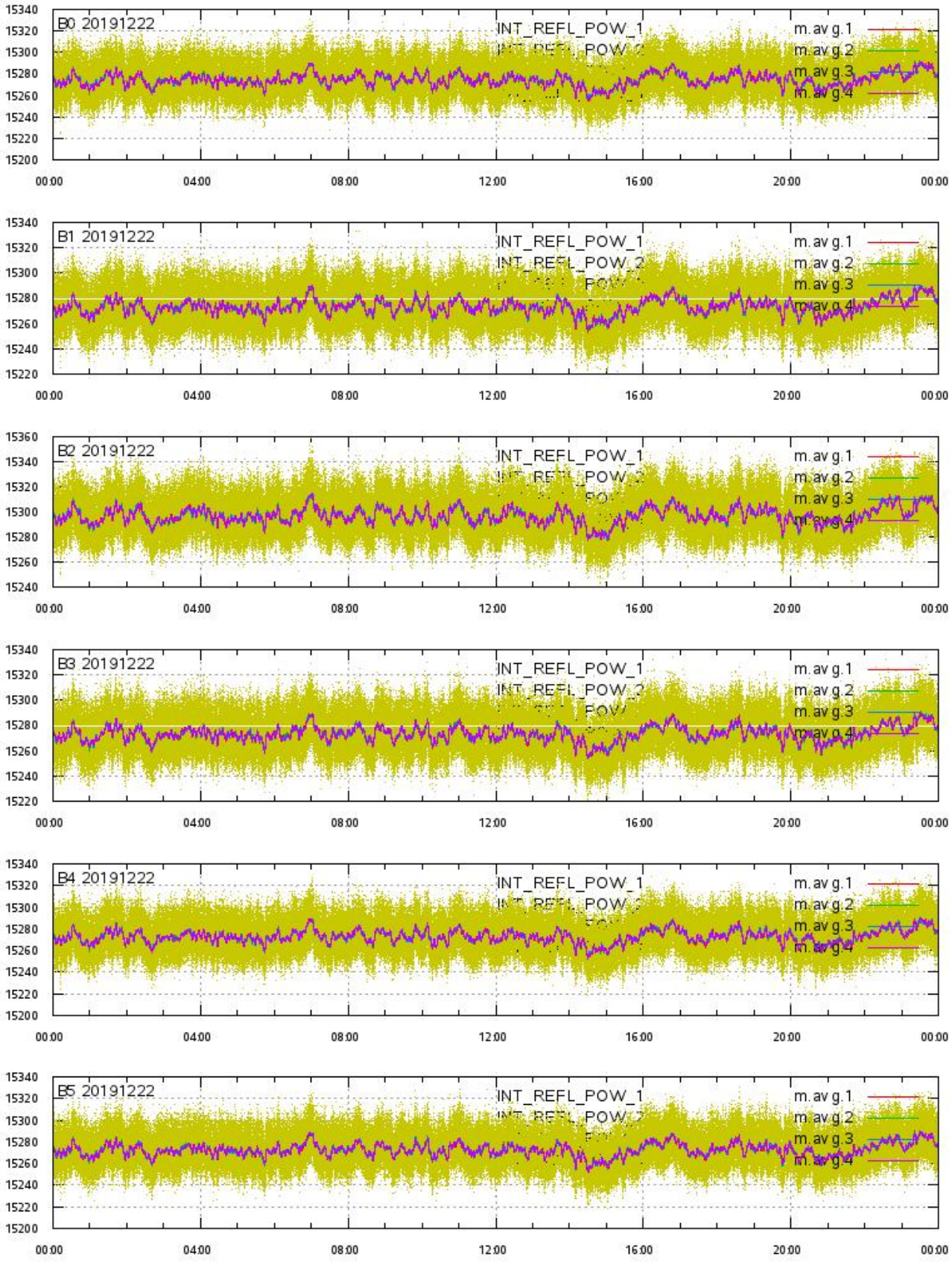
# L1A Product

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



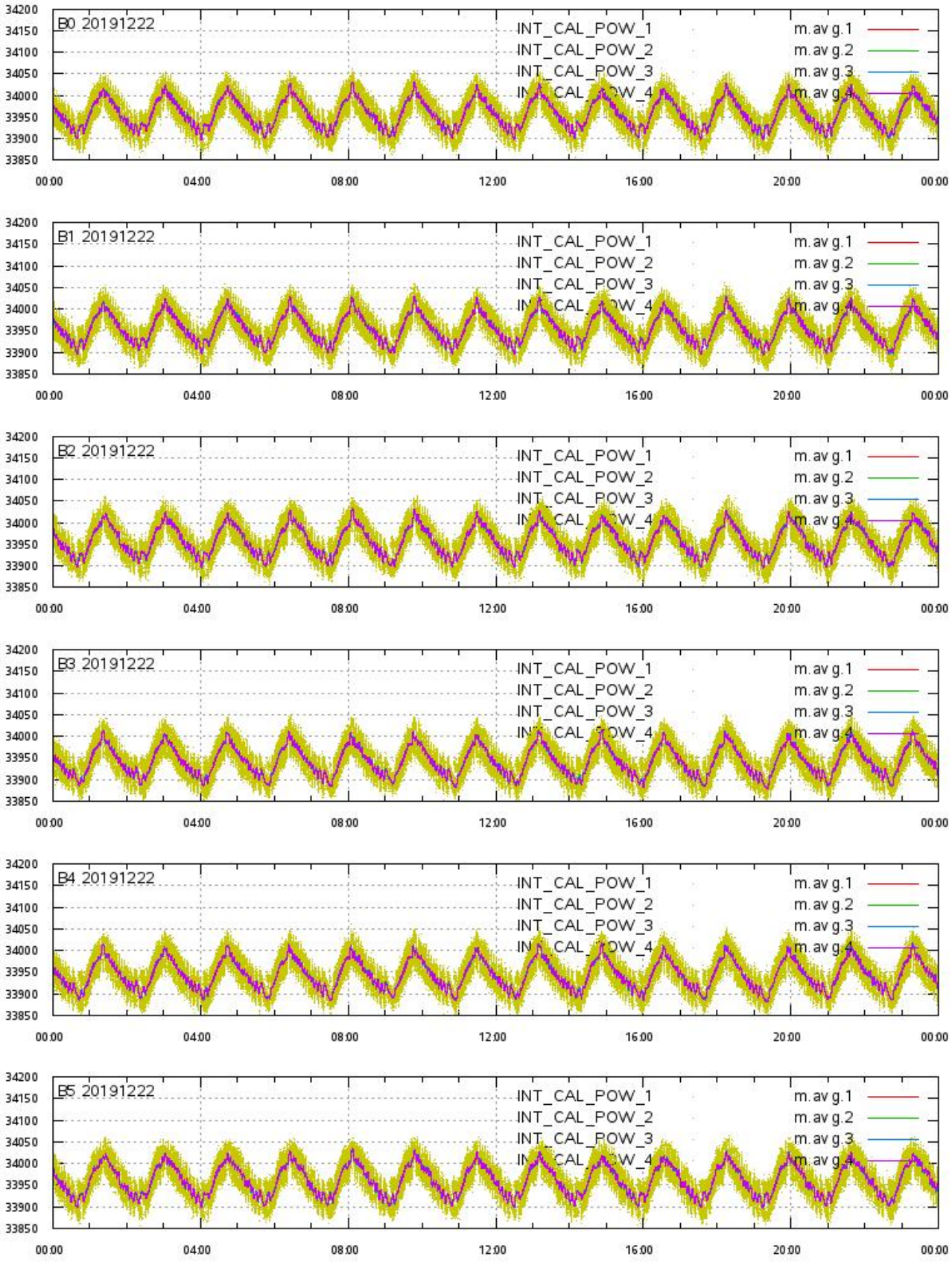
# L1A Product

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



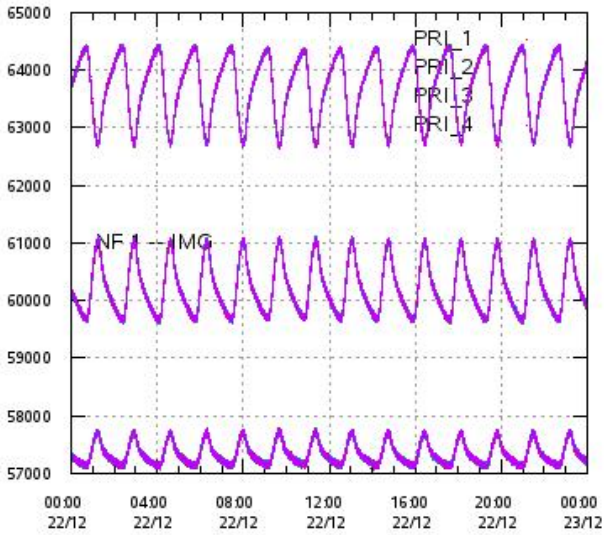
# L1A Product

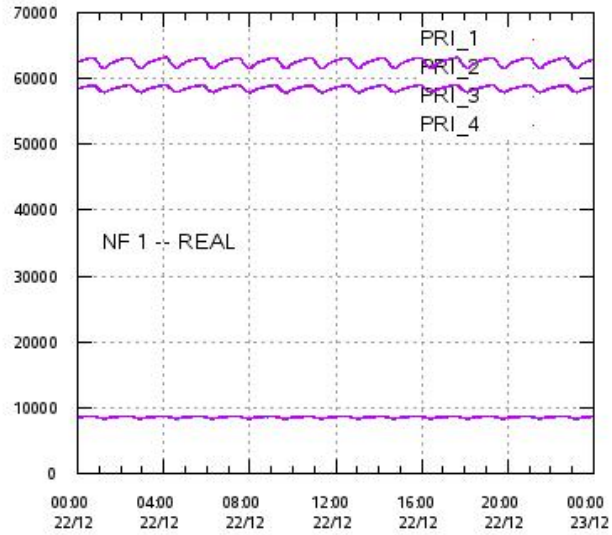
Integrated Calibration Powers 1-4 per beam 0-5 vs. UTC_LOCALISATION

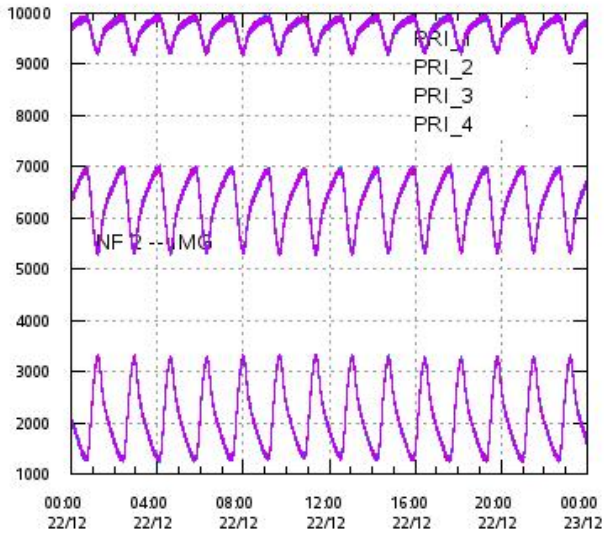


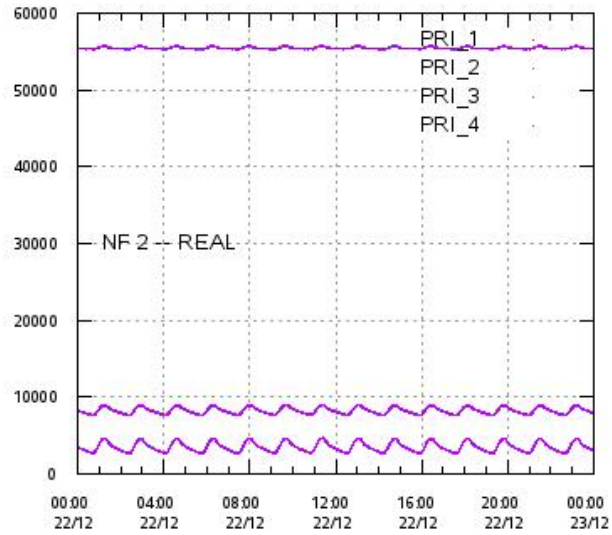
# L1A Product

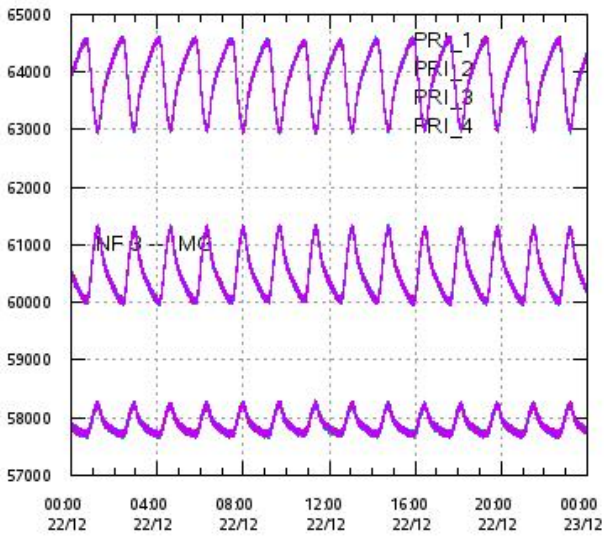
Calibration Powers vs. UTC_LOCALISATION

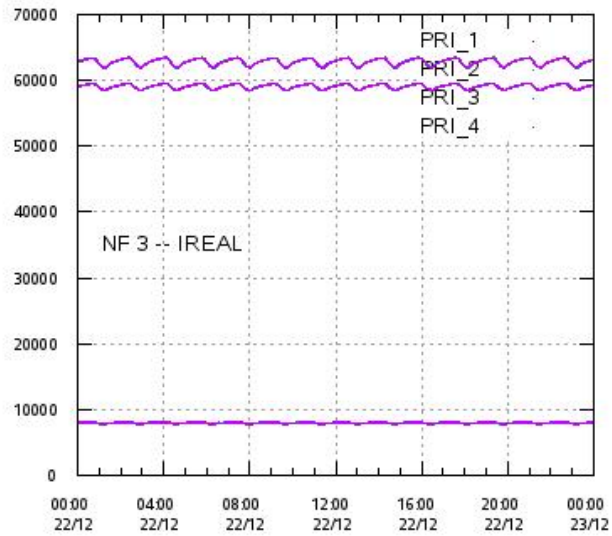


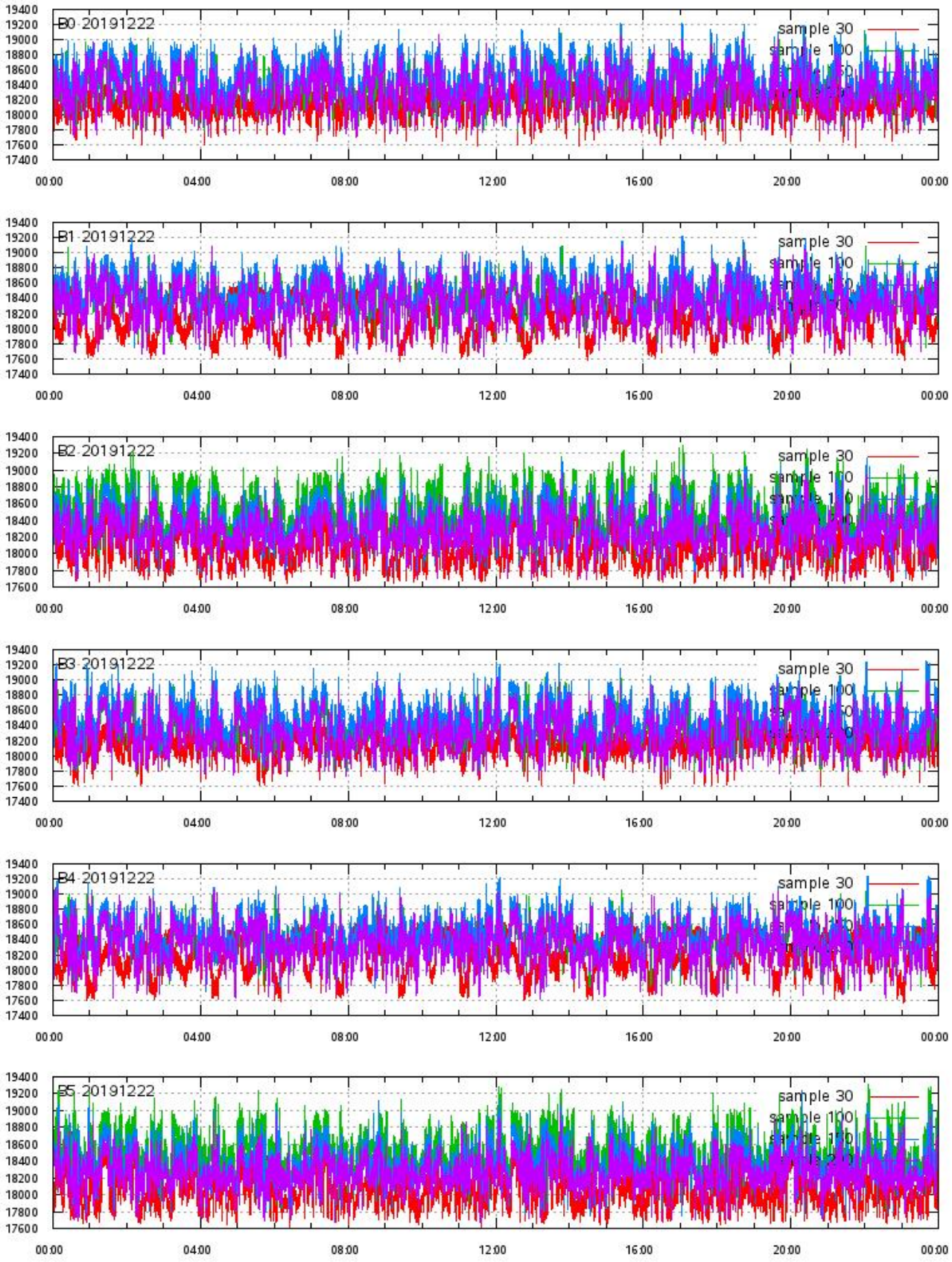



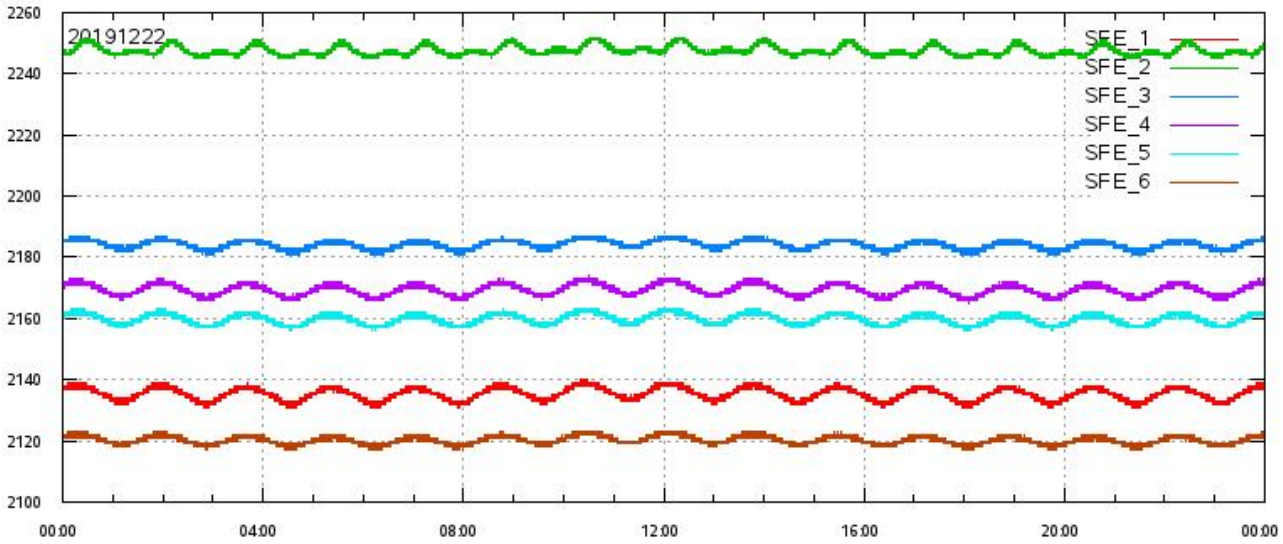
# L1A Product

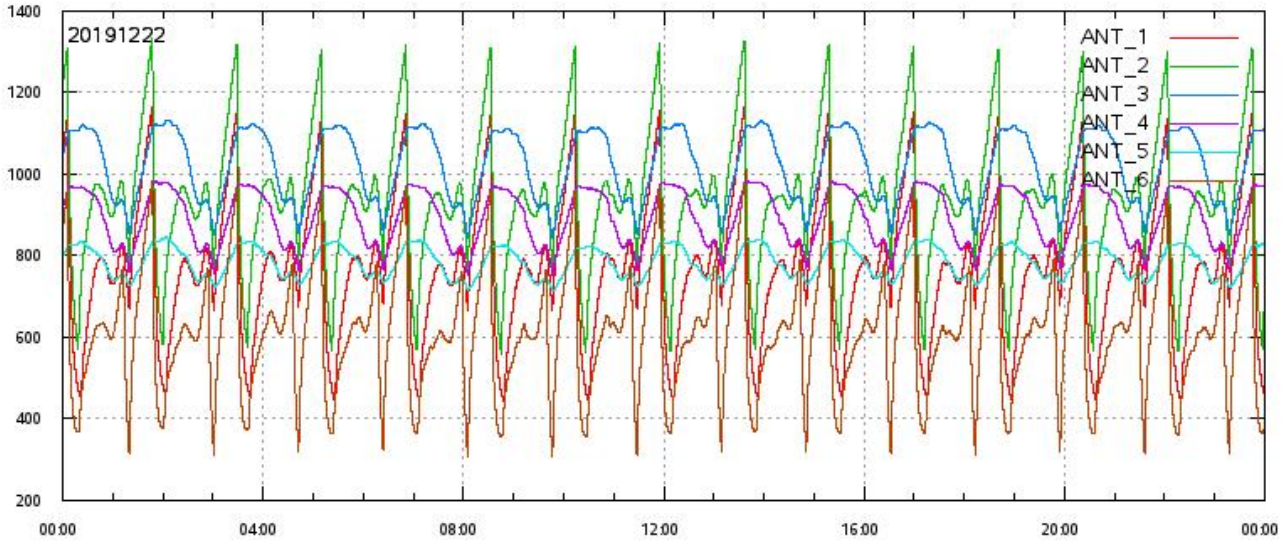
ECHO DATA (raw) for samples 30, 100, 150 and 200 vs. UTC_LOCALISATION

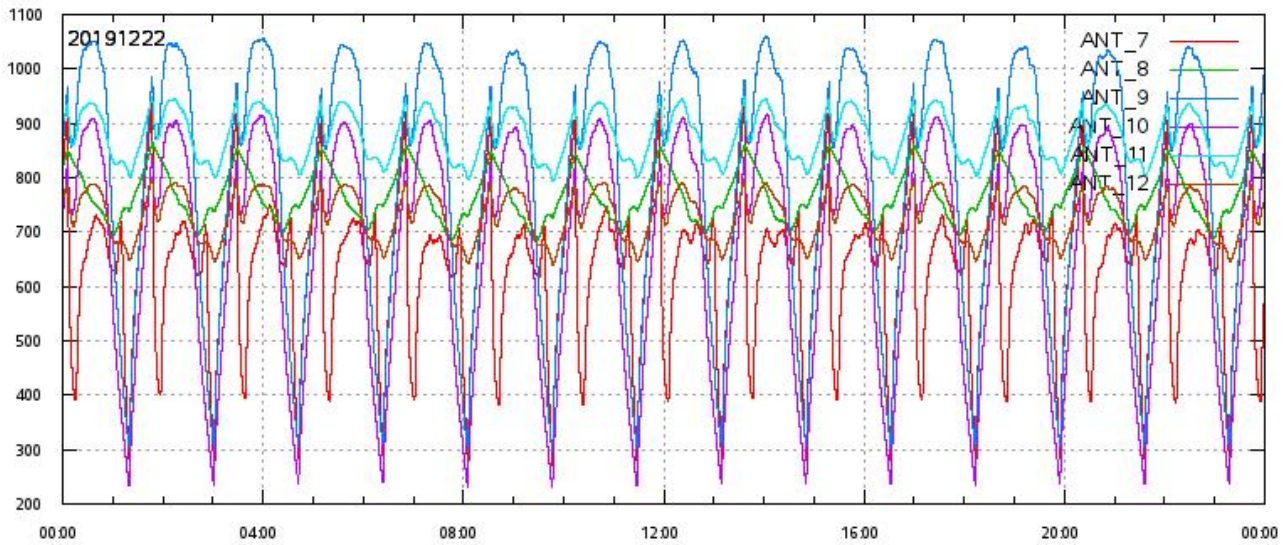


# L1A Product

SFE & ANT Temperatures (raw) vs. UTC_LOCALISATION

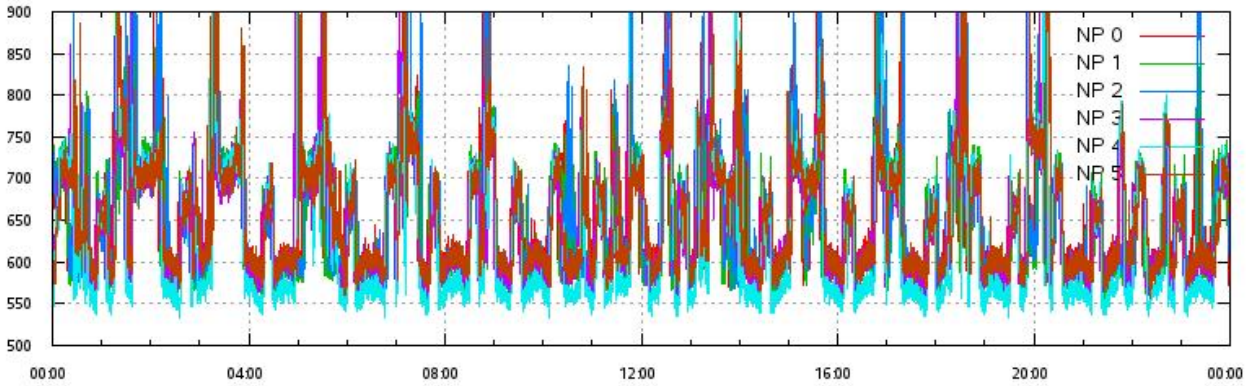


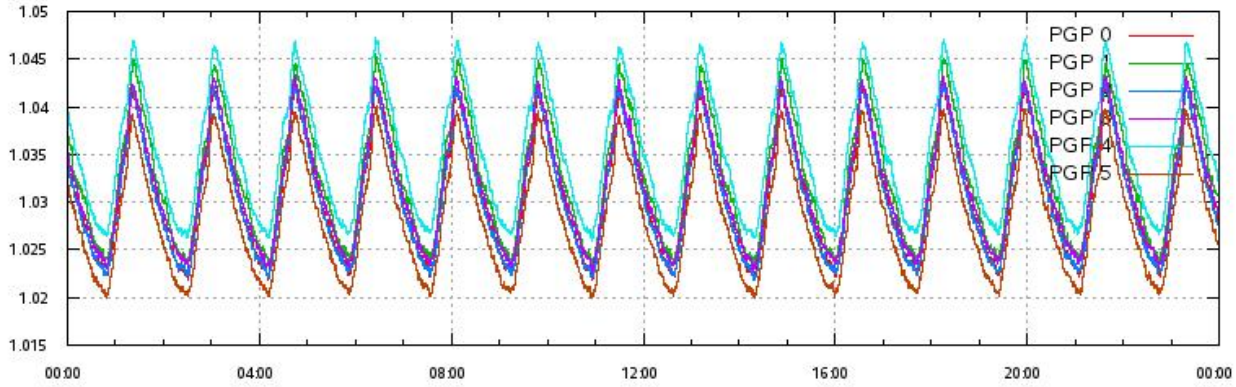



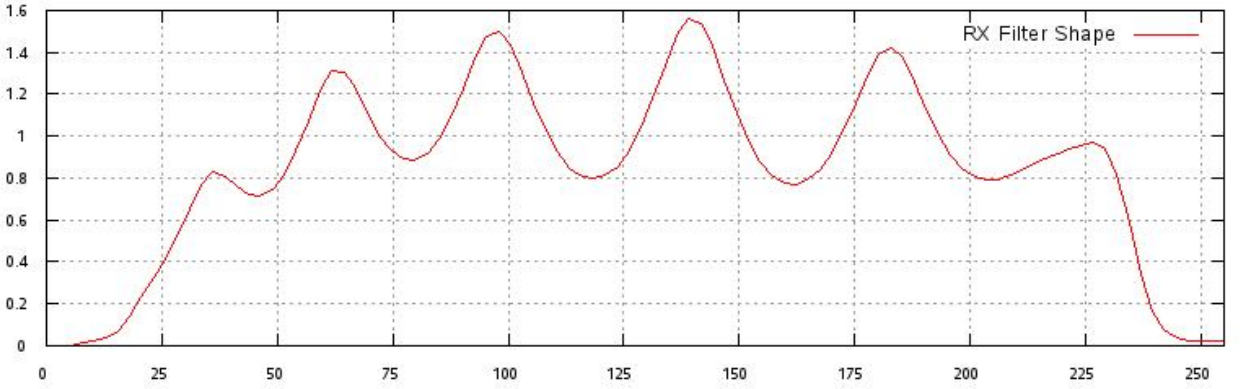



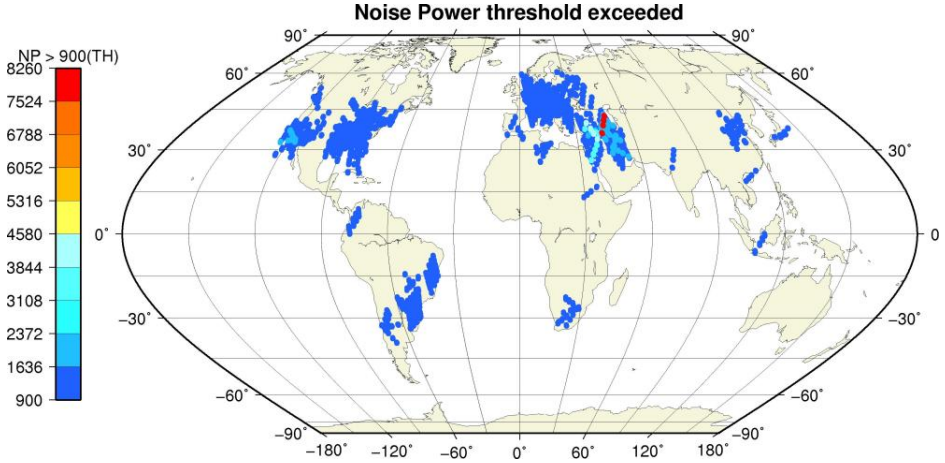
# L1A Product

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



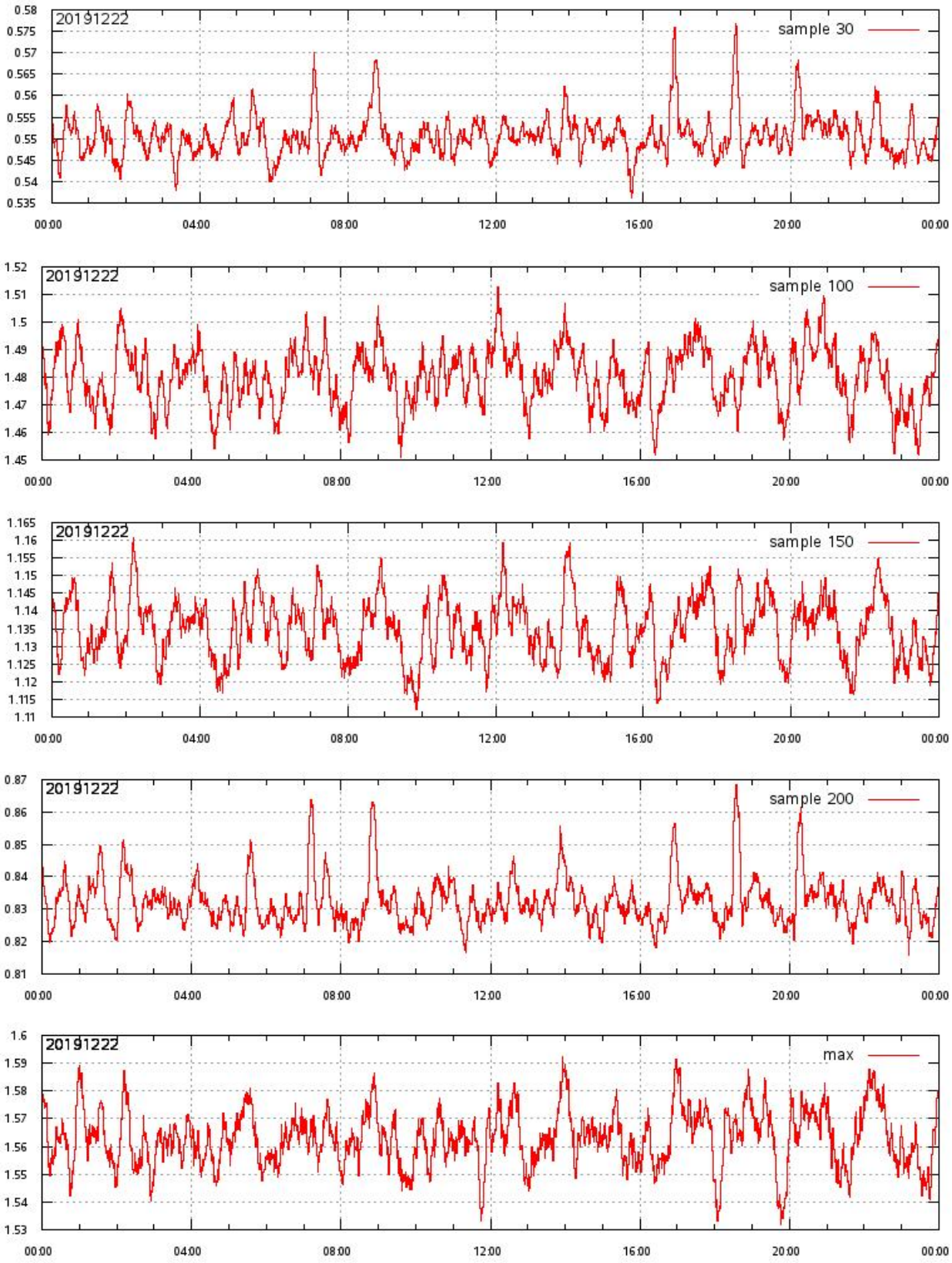



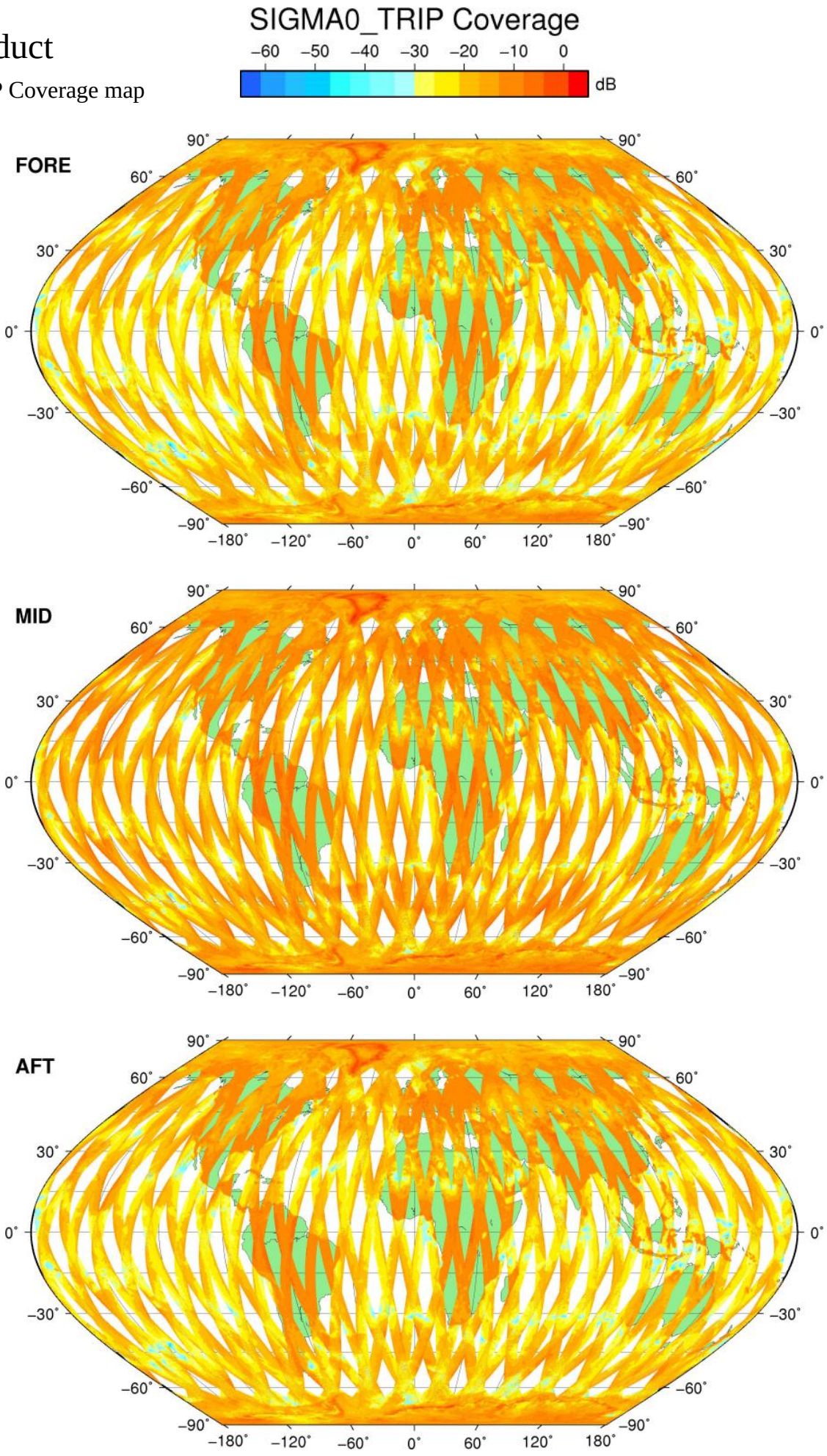
# L1A Product

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



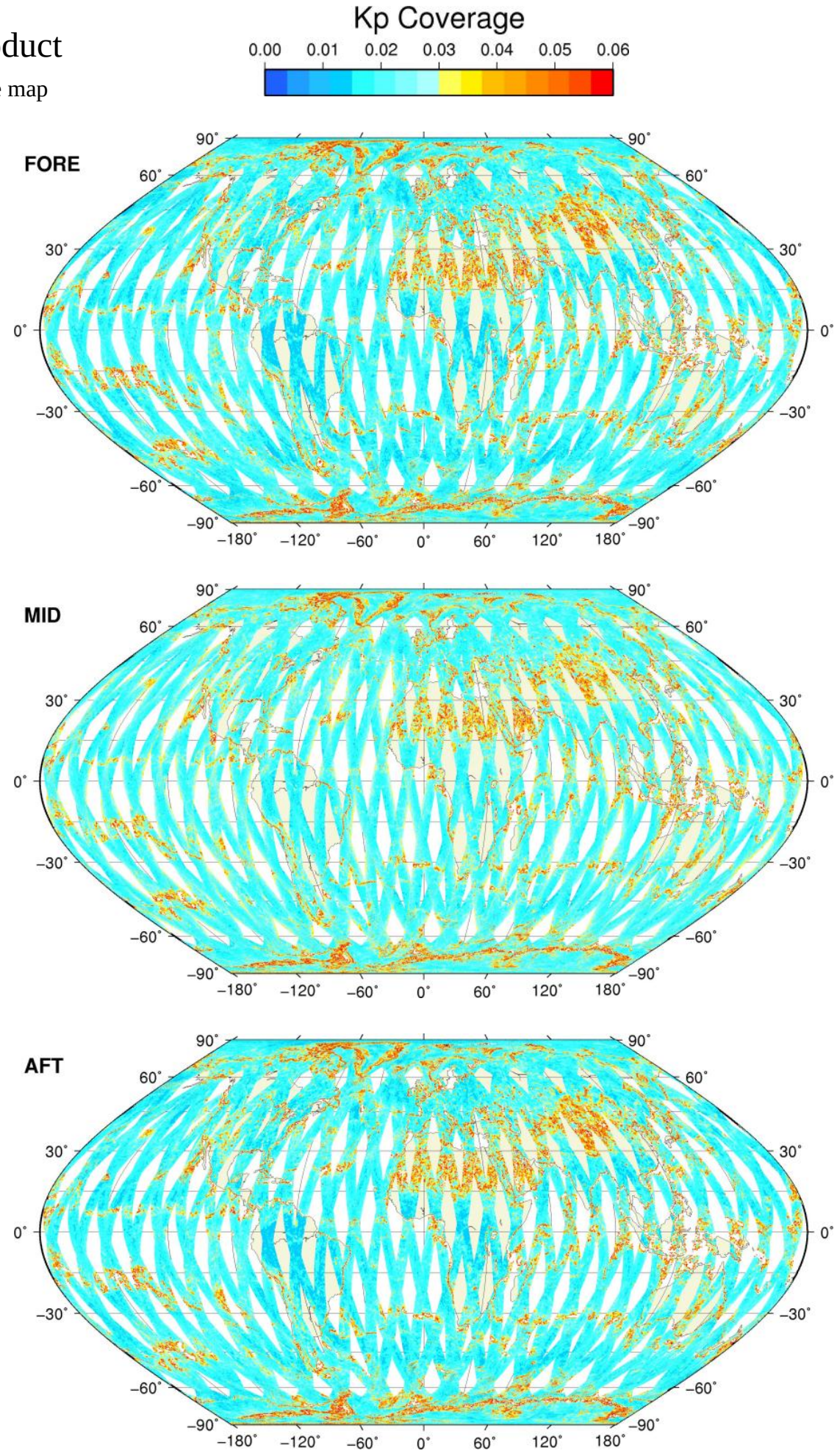
# SZO Product

Sigma0_TRIP Coverage map



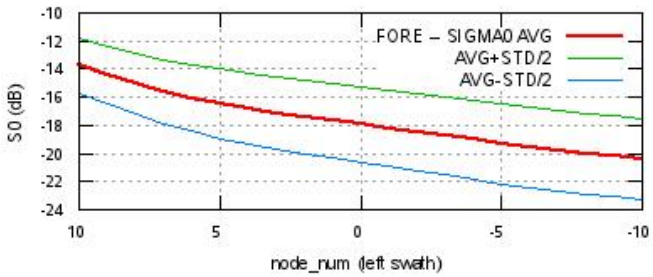
# SZO Product

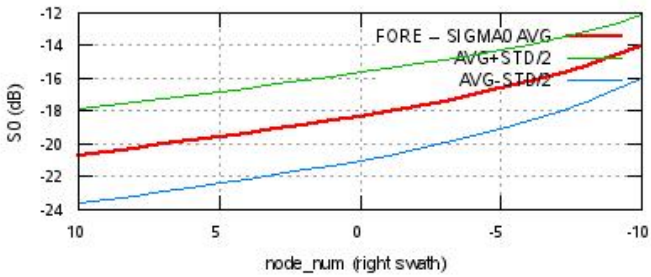
Kp Coverage map

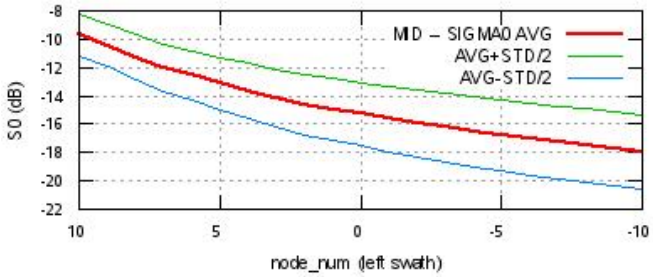


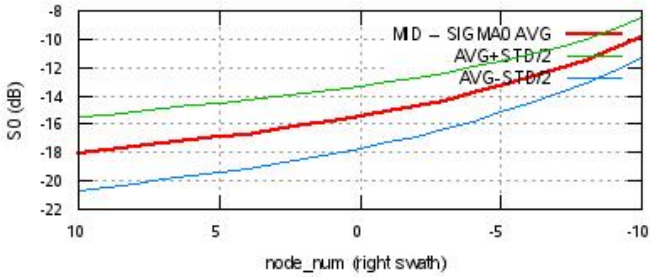
# SZO Product

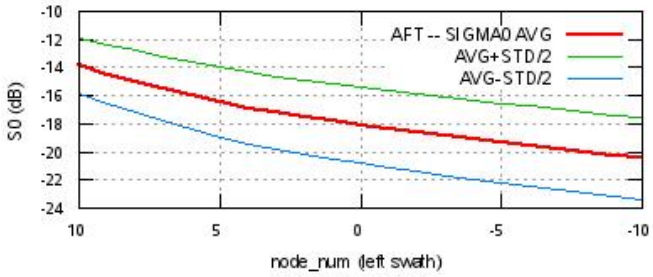
## S0 - Kp Statistics

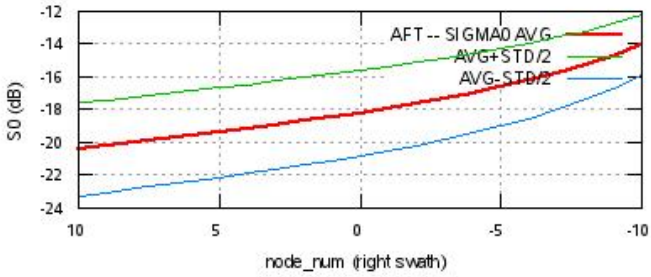


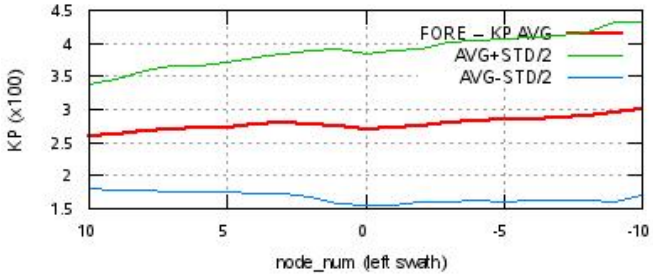



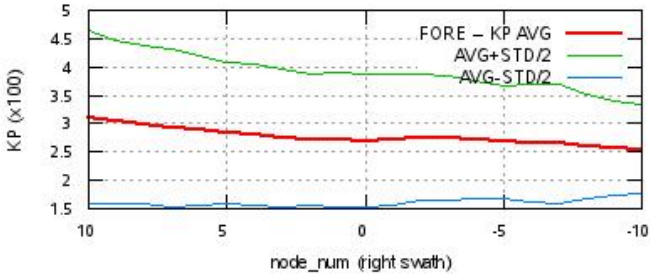



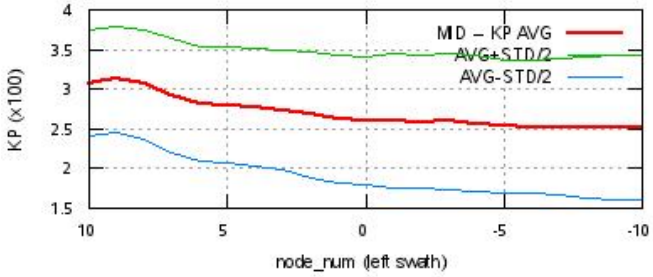



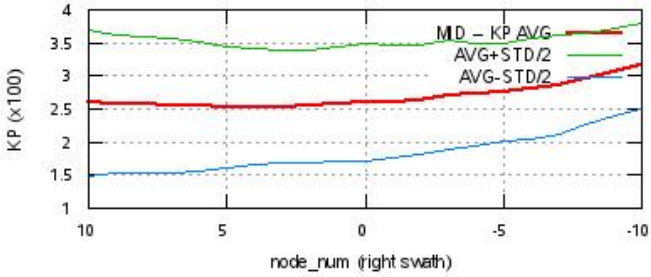



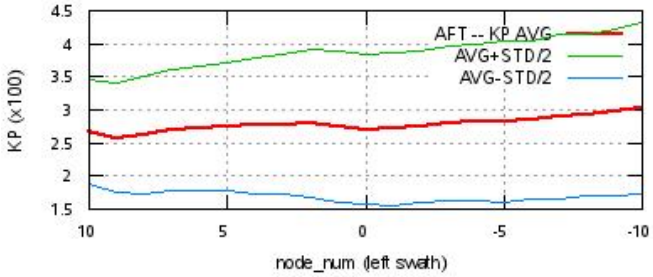



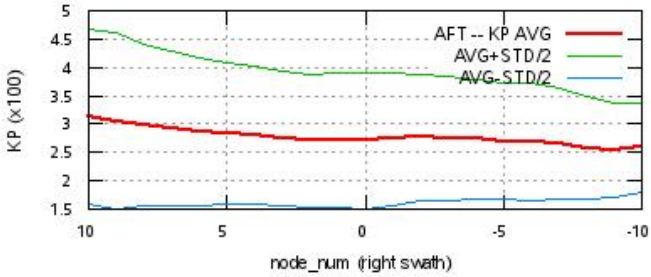



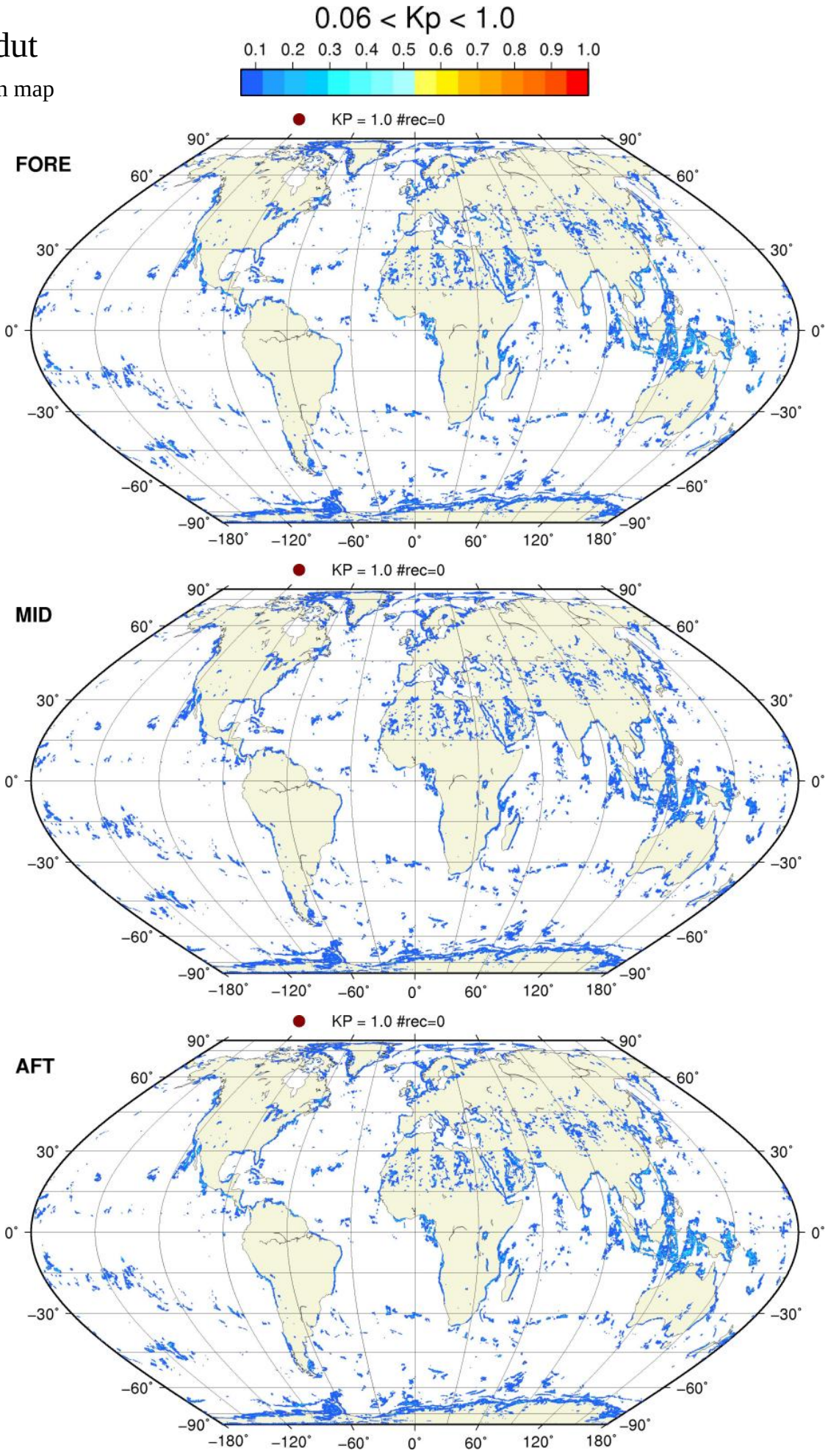



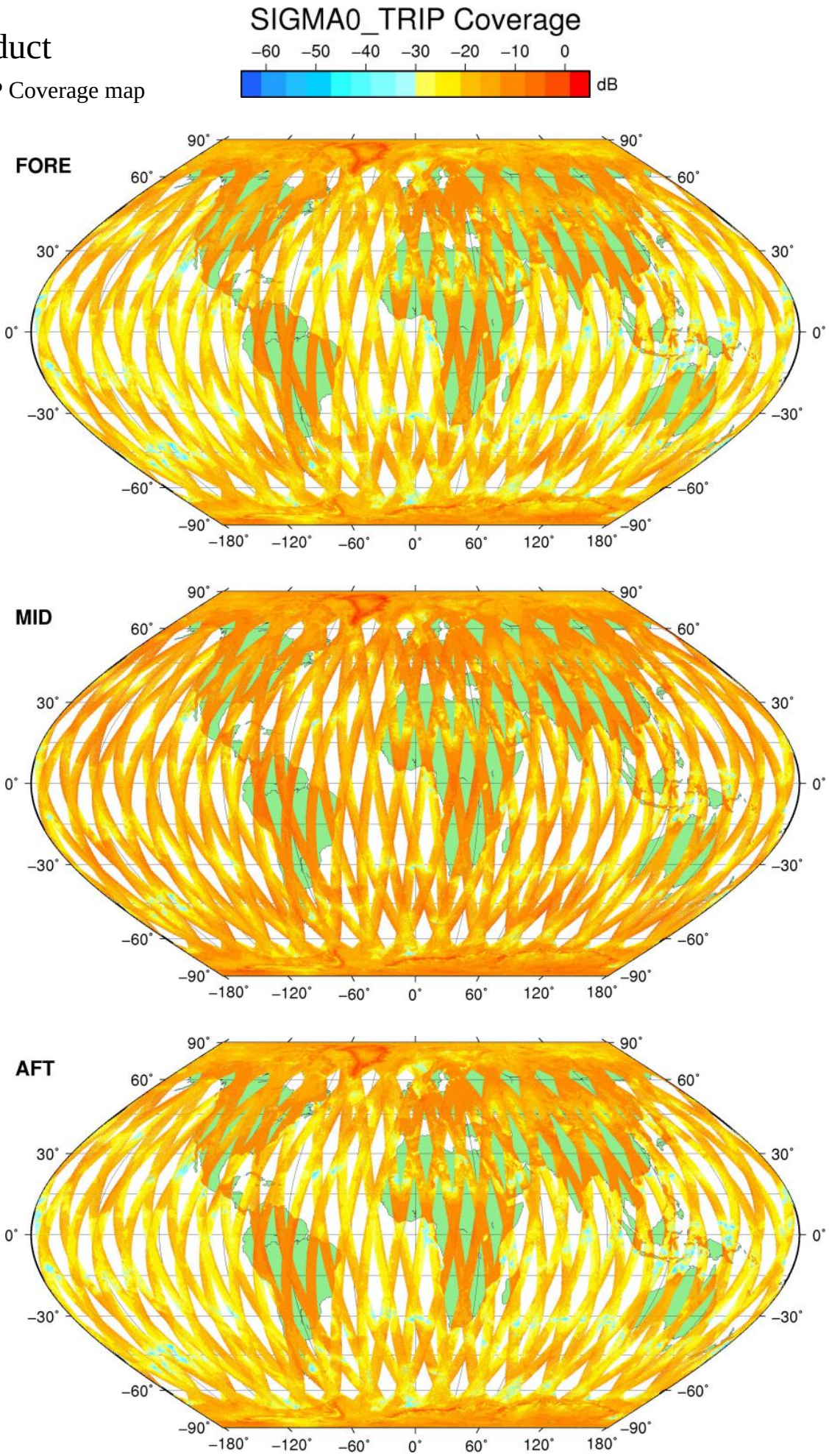
# SZO Produt

Kp Outliers on map



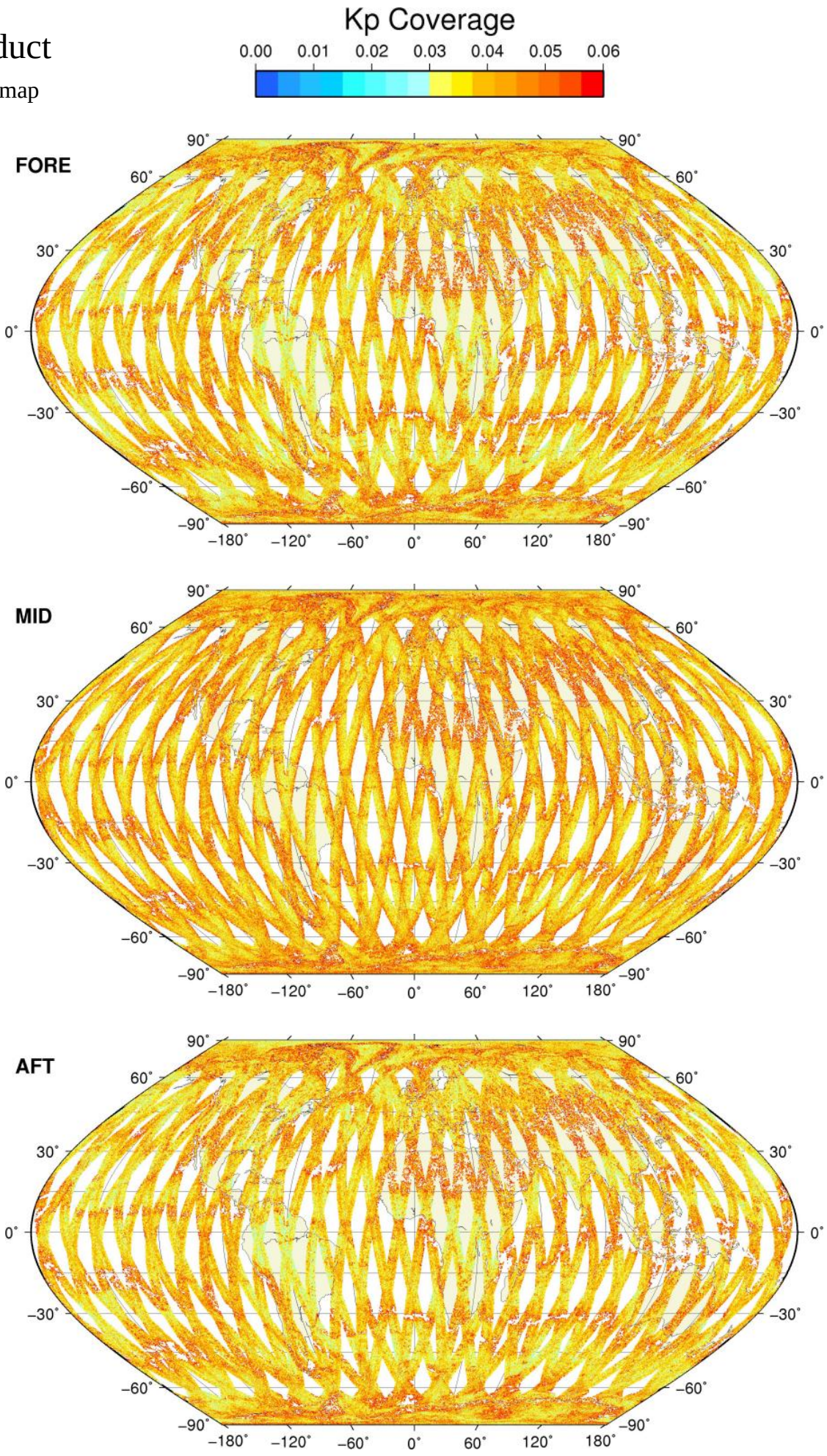
# SZR Product

Sigma0_TRIP Coverage map



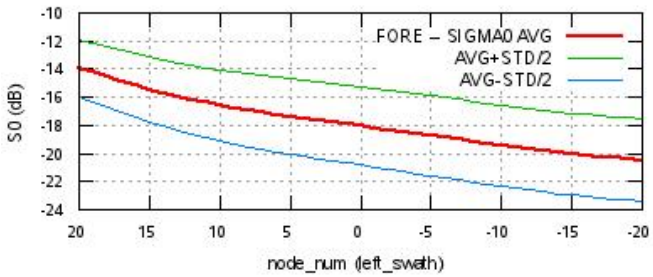
# SZR Product

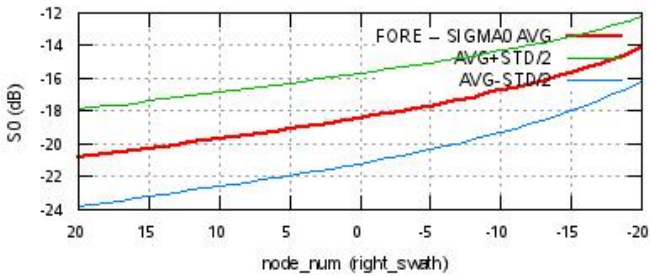
Kp Coverage map

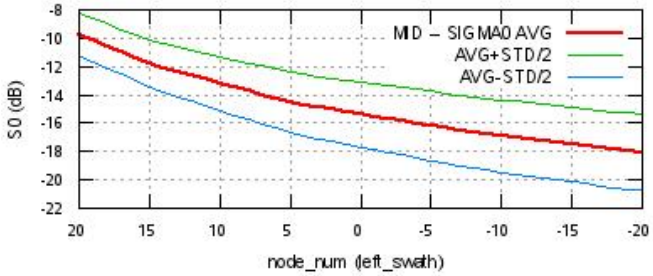


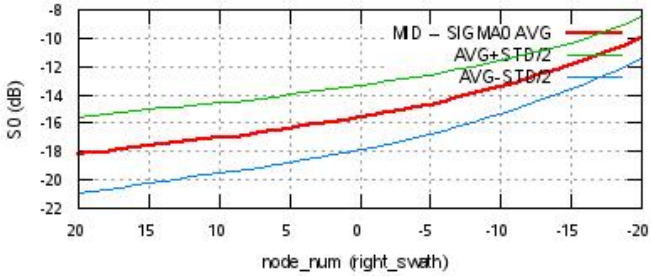
# SZR Product

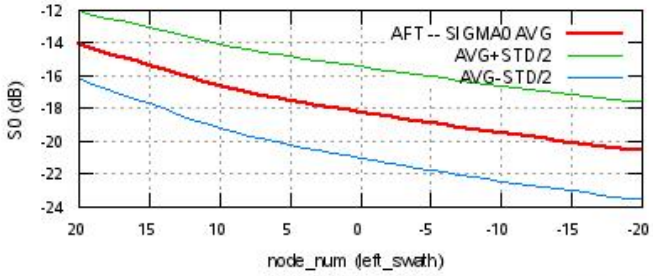
## S0 - Kp Statistics

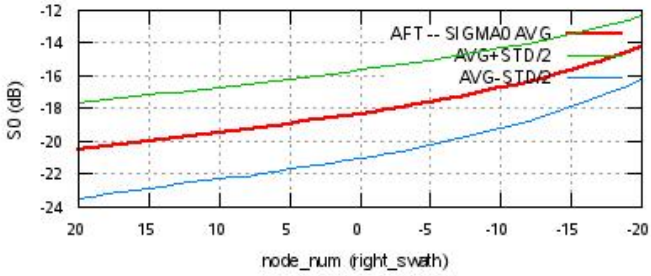


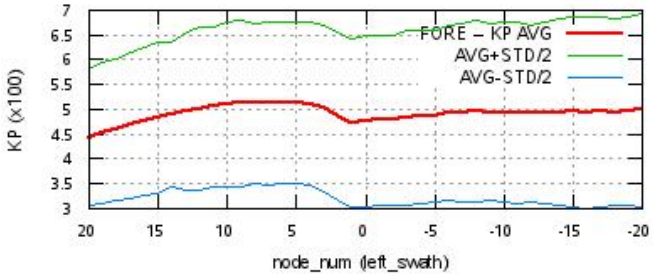



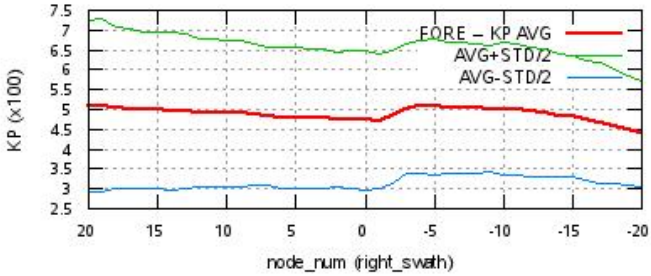



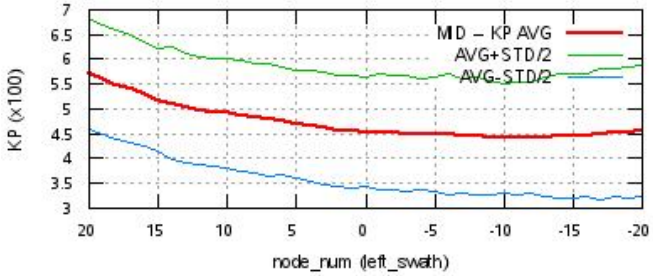



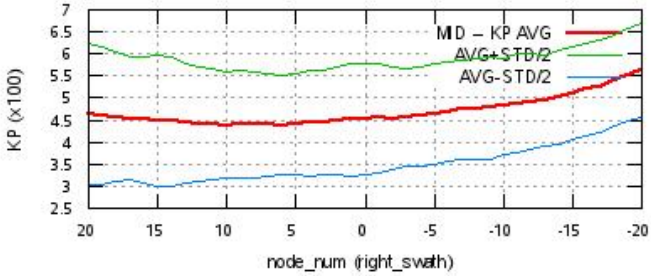



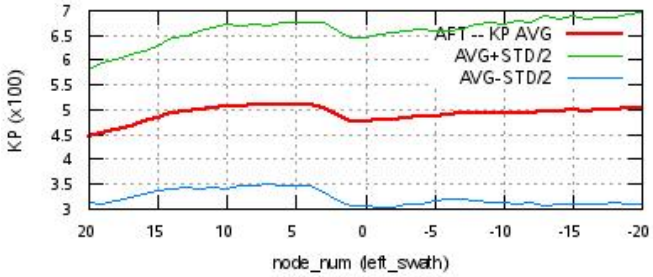



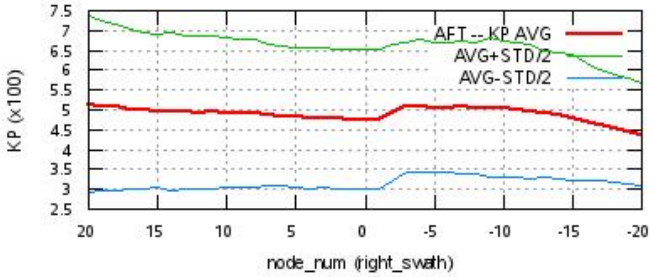



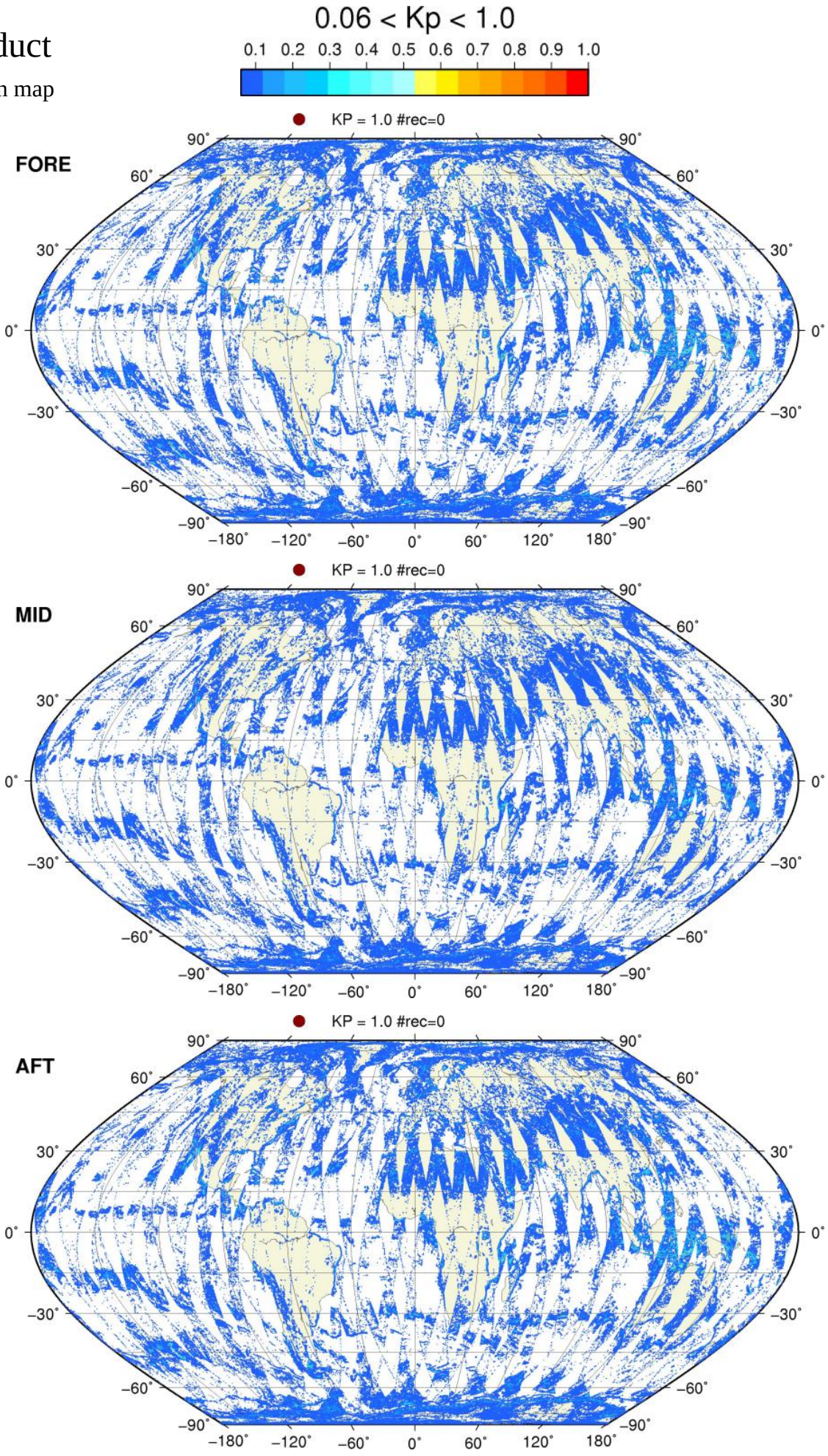



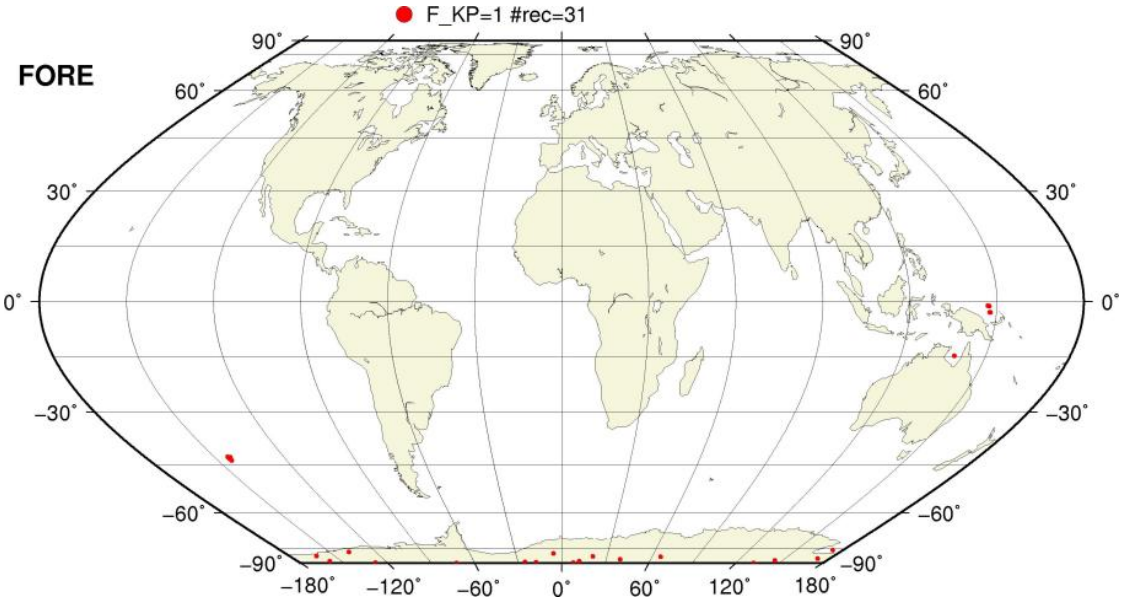
# SZR Product

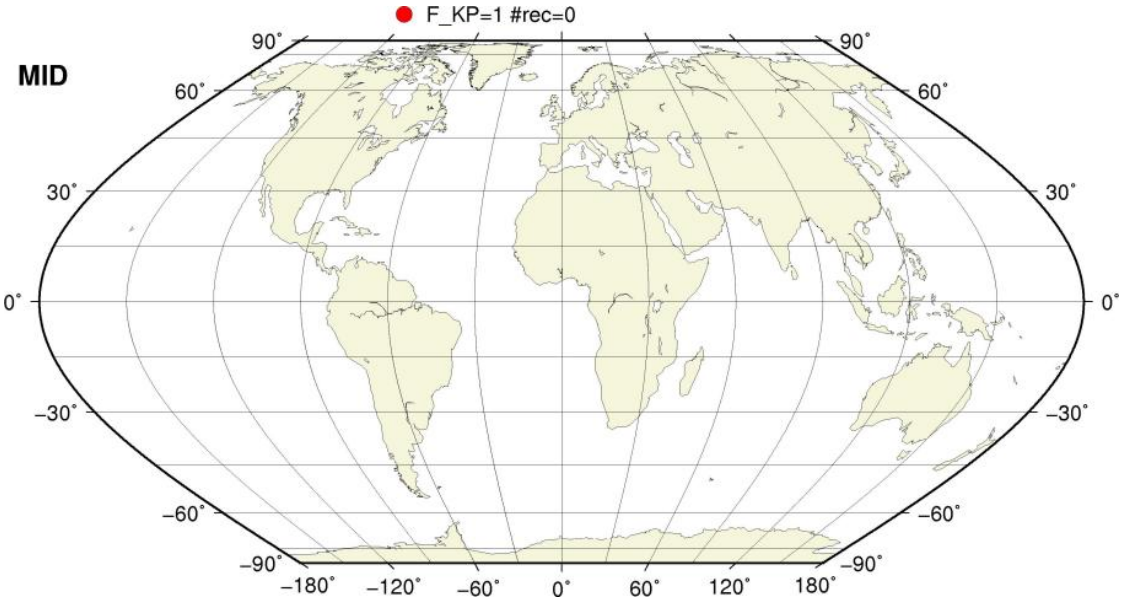
Kp Outliers on map

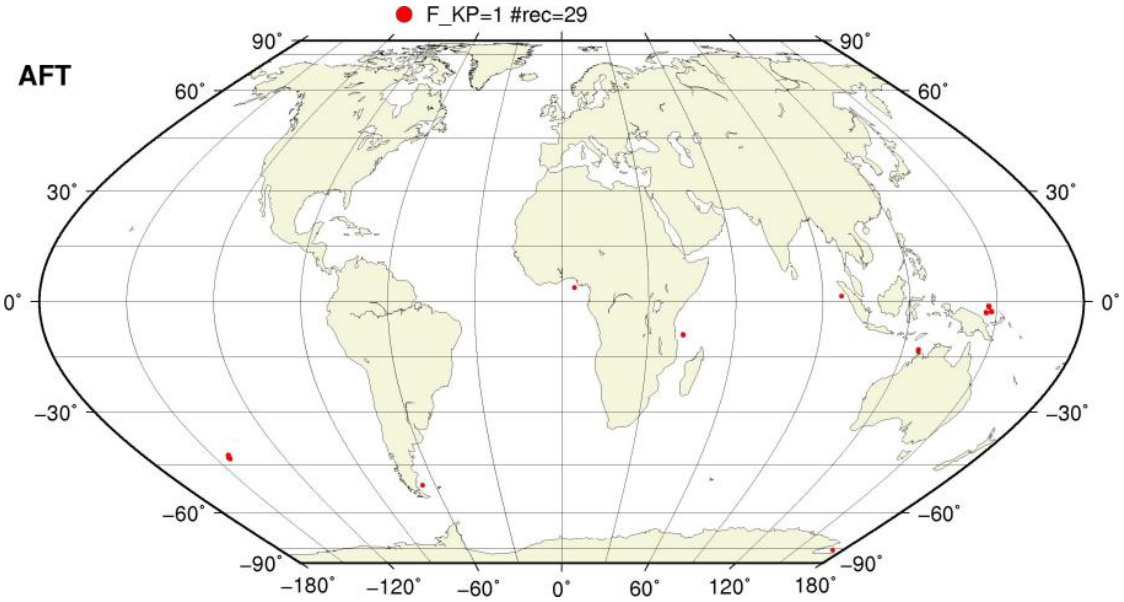


# SZO Flagged Data Coverage

F_KP = 1 on map

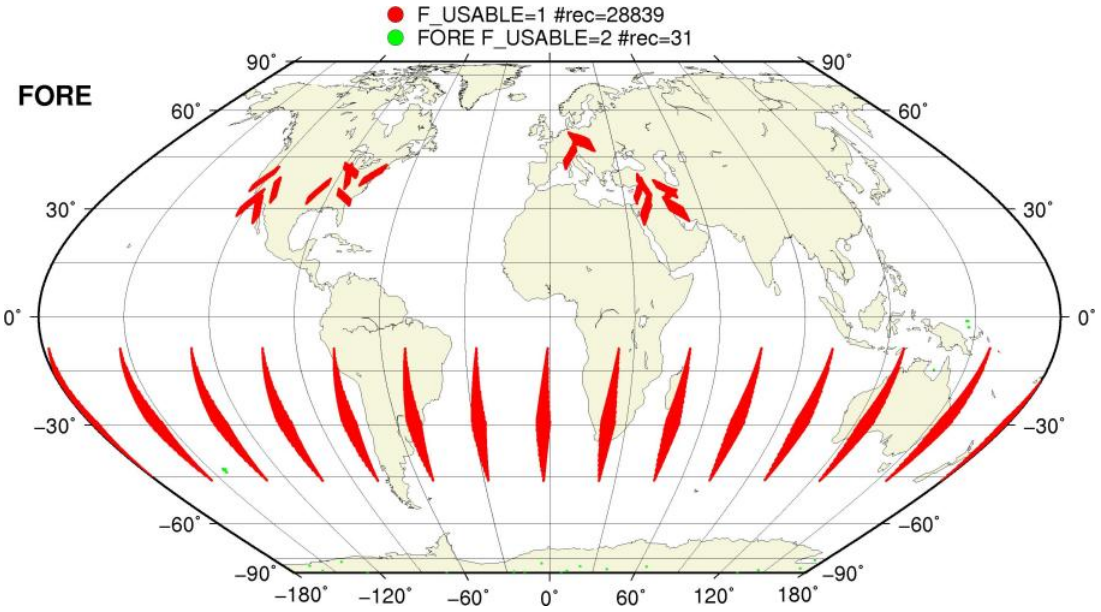


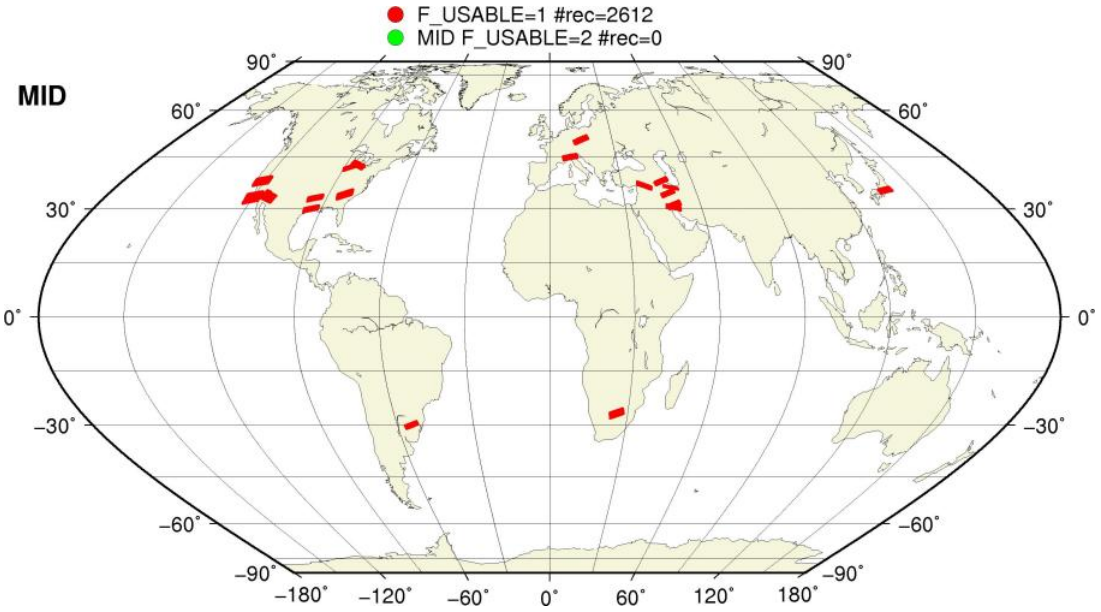



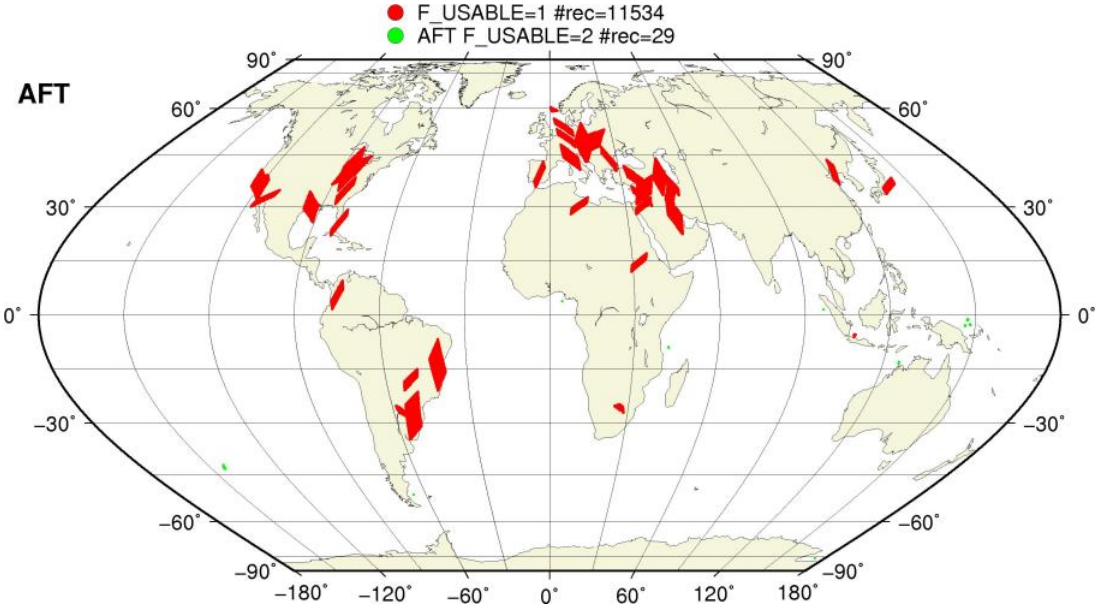



# SZO Flagged Data Coverage

F_USABLE = 1 or 2 on map

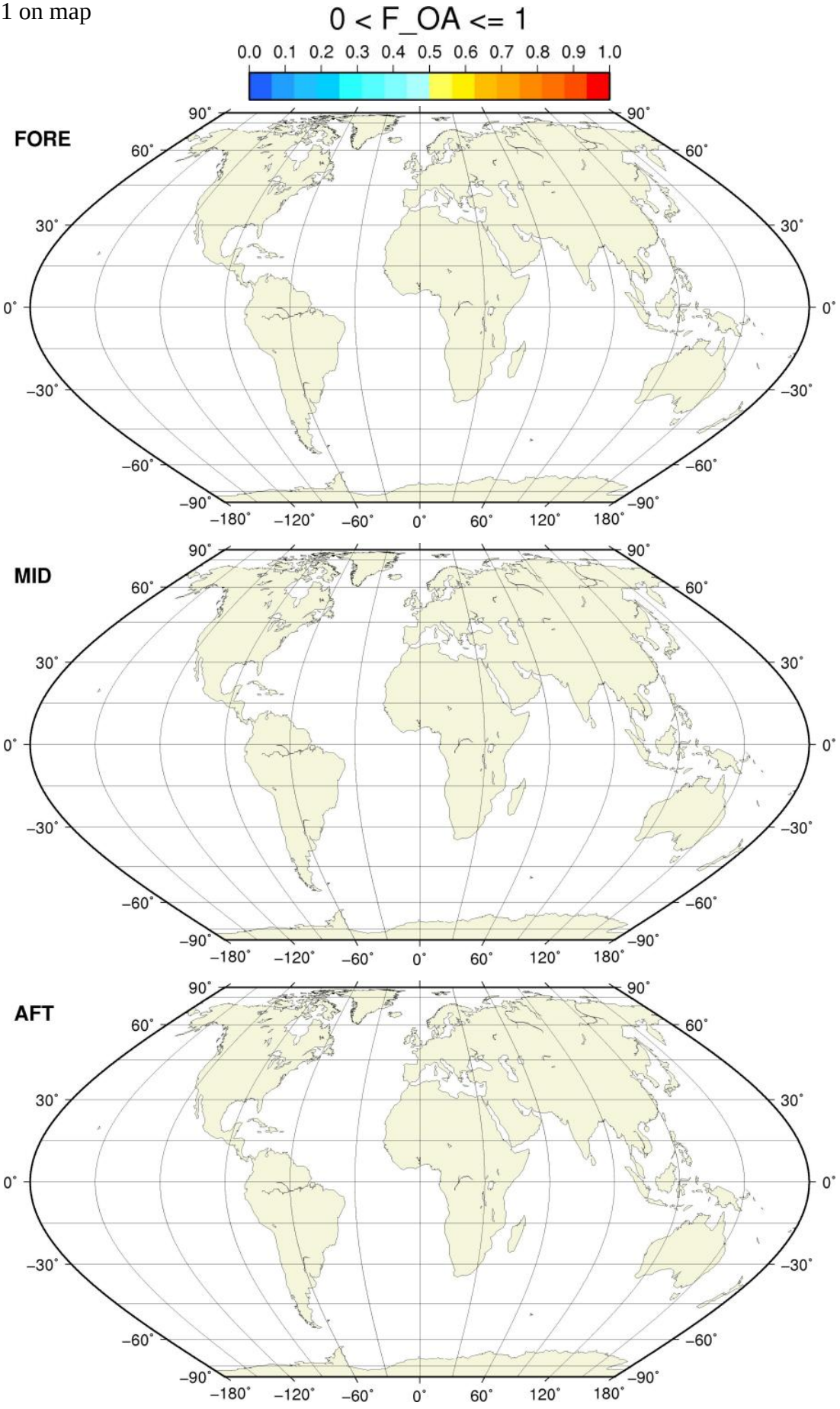


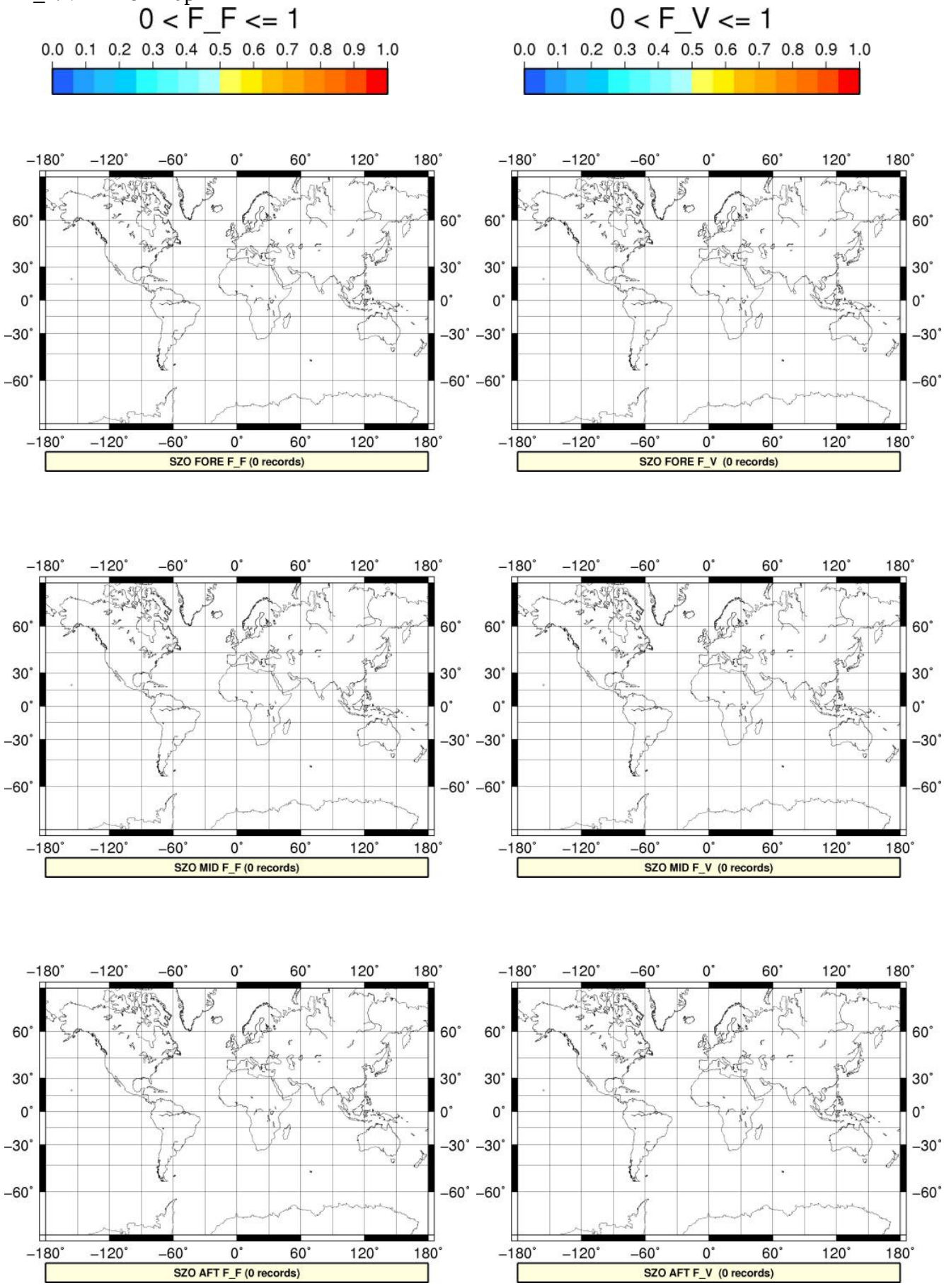
# SZO Flagged Data Coverage

0 < F_OA <= 1 on map



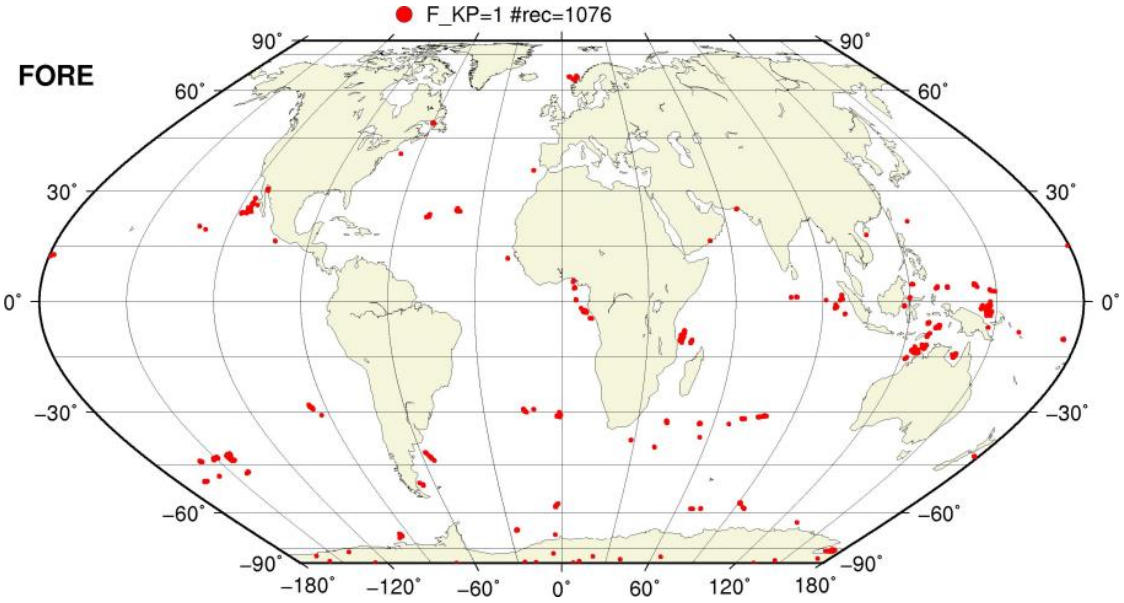
# SZO Flagged Data Coverage

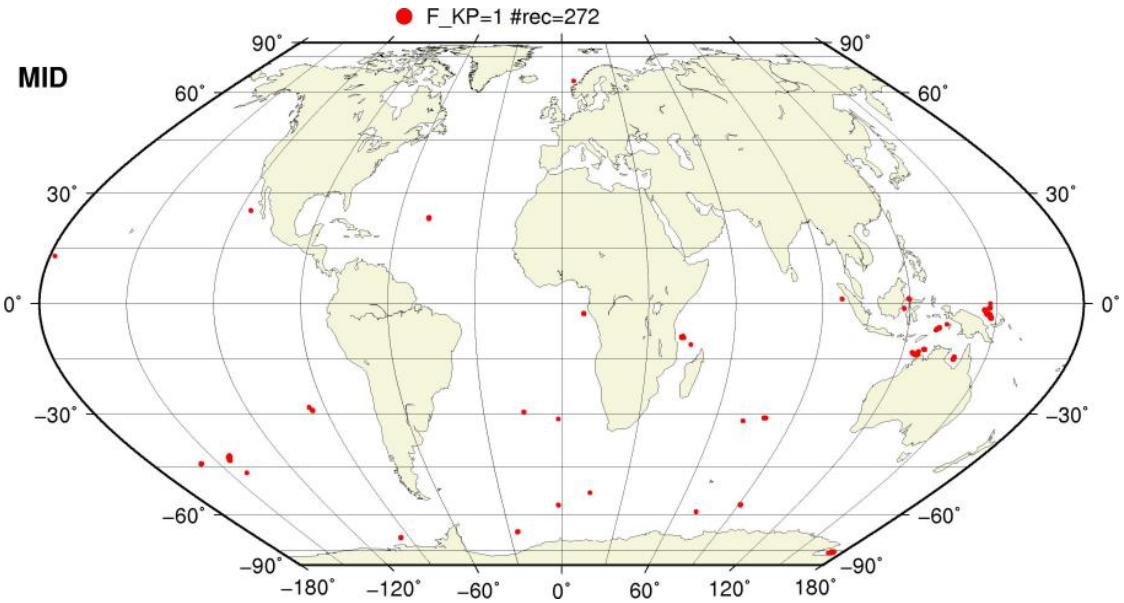
0 < F_F/V <=1 on map

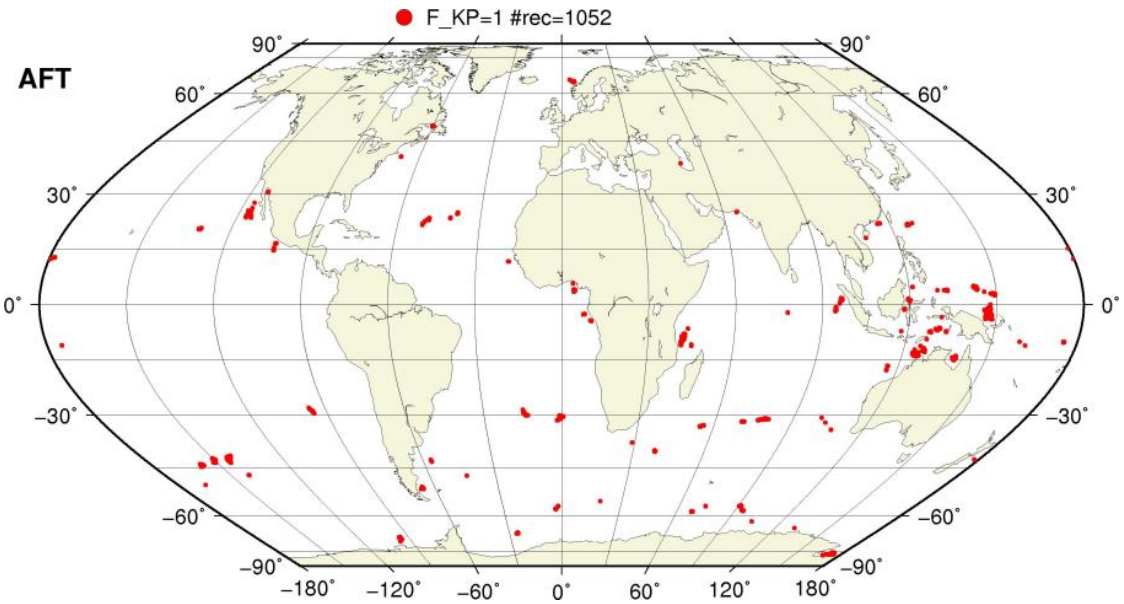


# SZR Flagged Data Coverage

F_KP = 1 on map

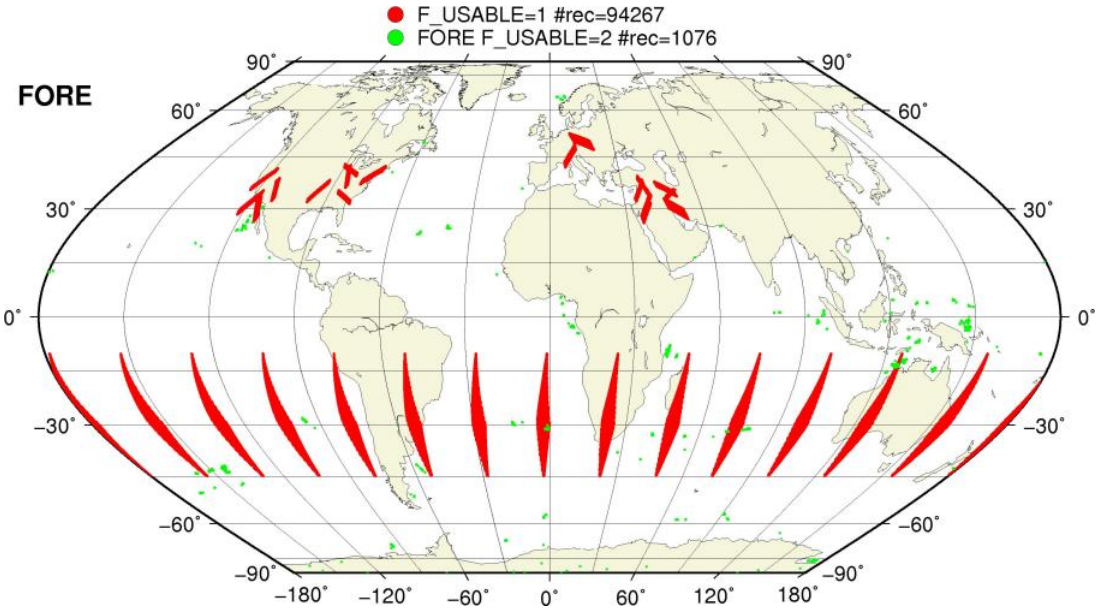


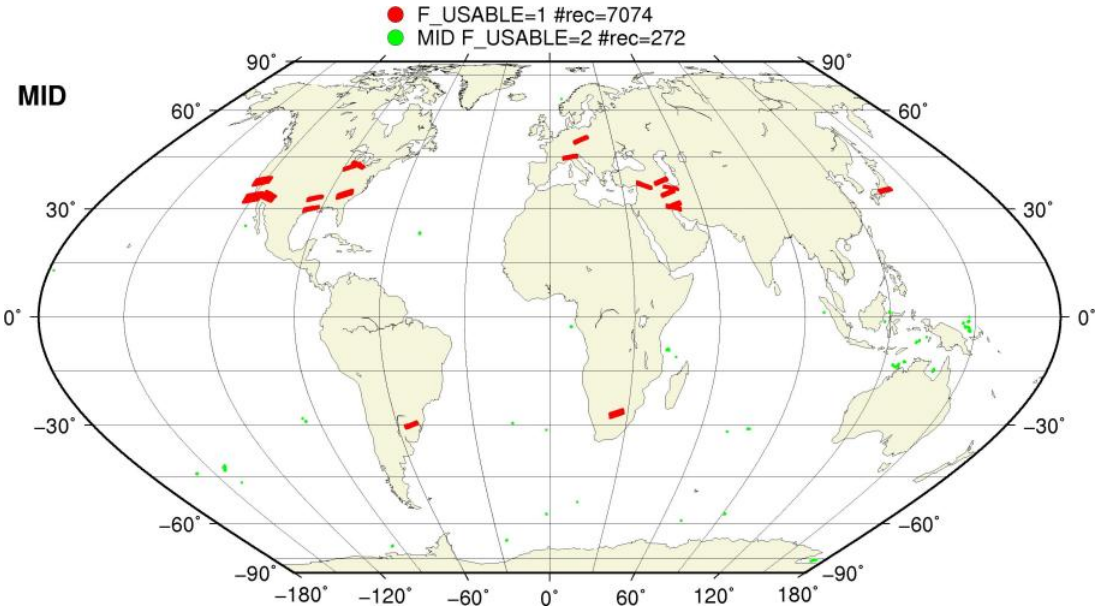



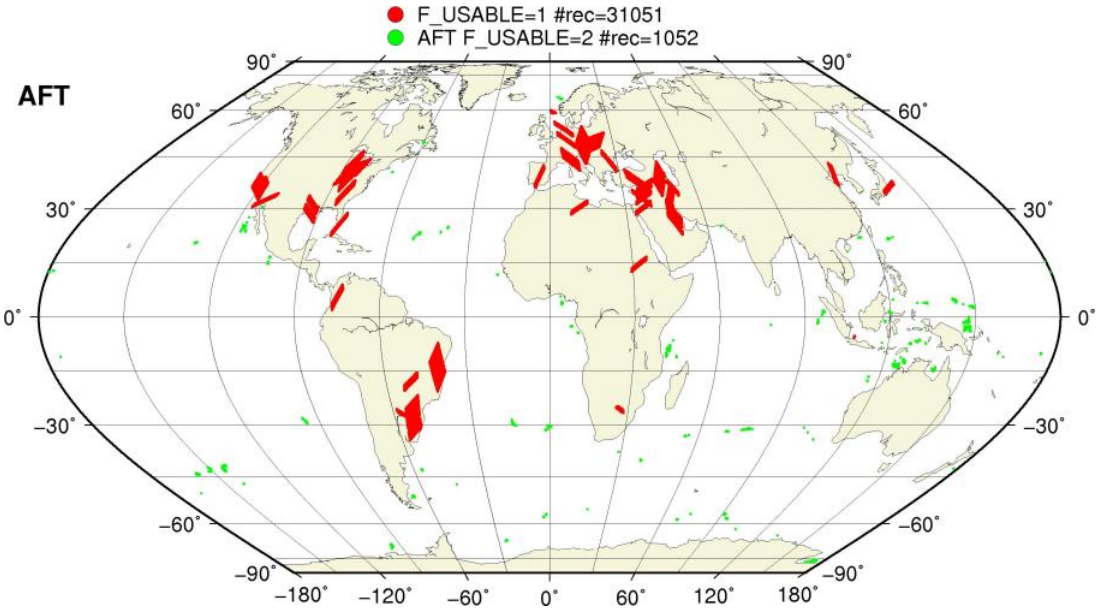



# SZR Flagged Data Coverage

F_USABLE = 1 or 2 on map

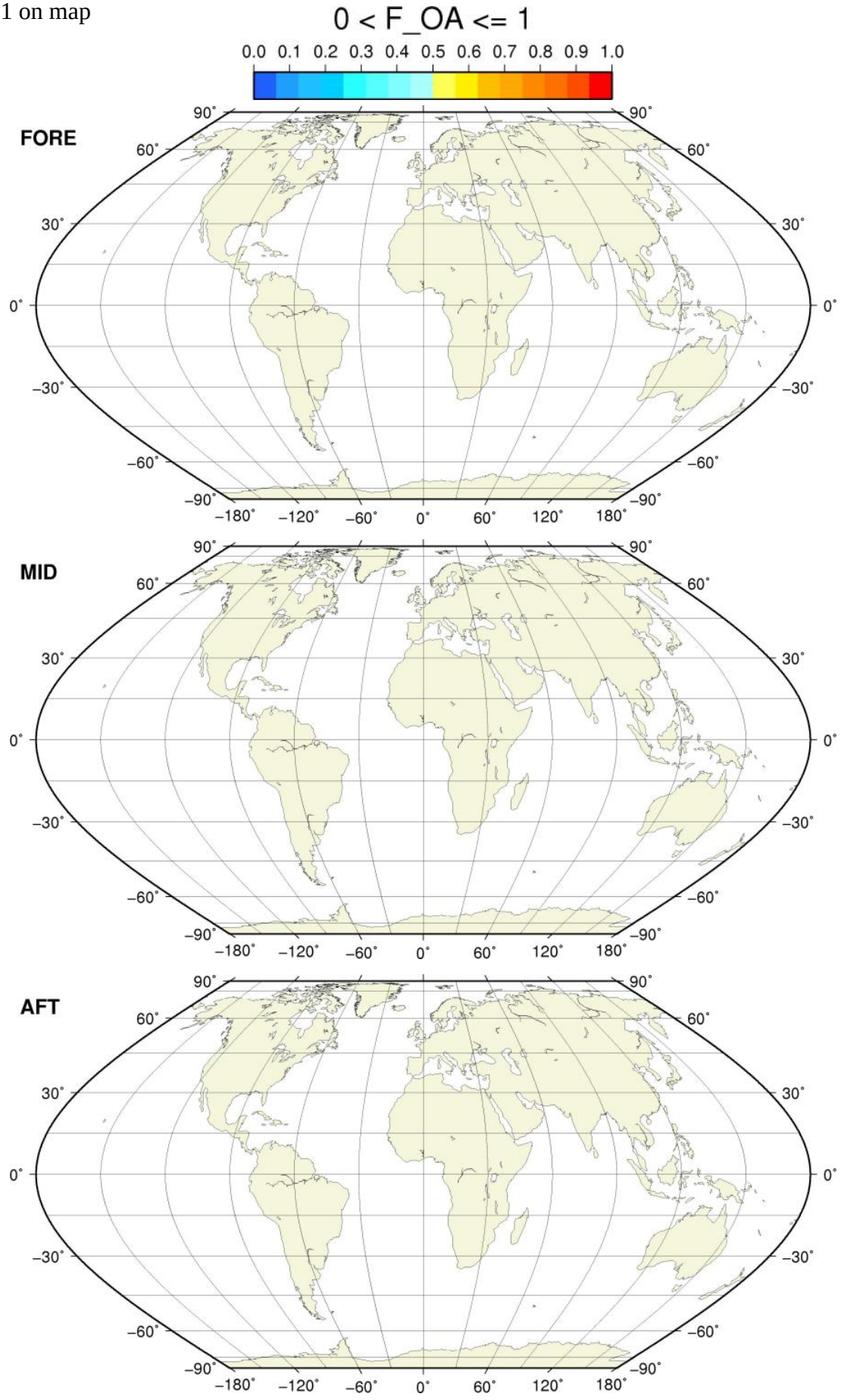


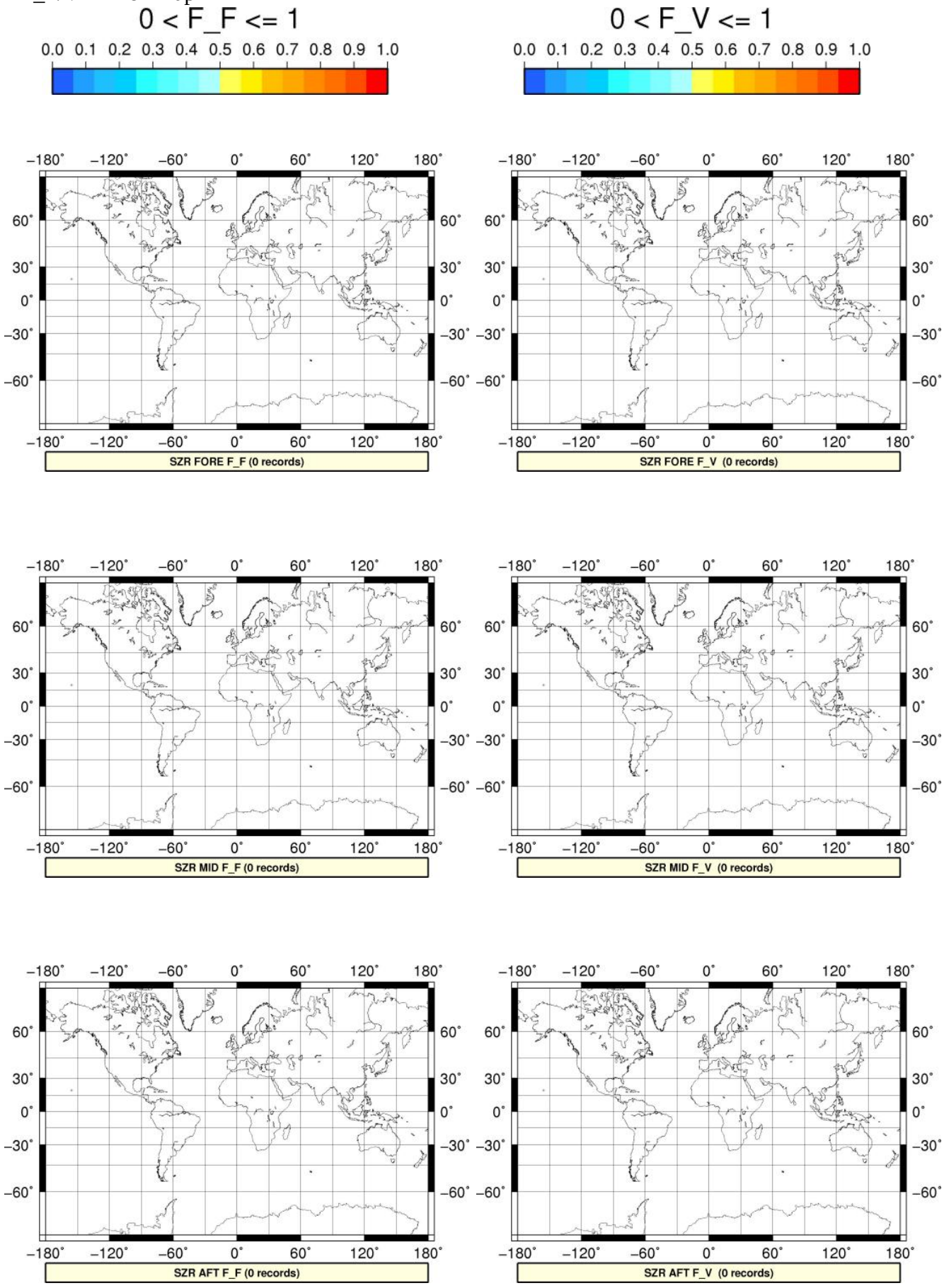



# SZR Flagged Data Coverage

0 < F_OA <=1 on map



# SZR Flagged Data Coverage

0 < F_F/V <=1 on map