**GODEX-NWP-2**

**Open Action Items**

**27 November 2017**

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| **Action Number****NEW** | **Spreadsheet Ref NEW** | ***Spreadsheet Ref OLD*** | **Action**  | **Status** | **Action for:** |
| 2017-1 | LEO radiances1.5 | *1.3.3* | Specify in the spreadsheet document the data stream by which the SSMI/S brightness temperatures are received (NESDIS, EUMETCast, or MetOffice) | New 2017Status (Nov 2018): EUMETSAT receives SSMI/S data as follows: BUFR SSMI/S data from MetOffice (pre-processed), and native format data from NOAA/NESDIS for conversion to BUFR and redistribution via EUMETCast.ECMWF receives SSMI/S BUFR from MetOffice | All |
| 2017-2 | LEO radiances1.6 | *1.5.1* | NESDIS to investigate the possibility of putting Aqua/AMSU-A data on the GTS | New 2017 Update (October 2018): NESDIS/OSPO provides AMSU-A data from AQUA as part of the AIRS processing system. It is currently made available in BUFR format via the PDA. In our investigation, we discovered NWS NCEP is the NOAA gatekeeper of products disseminated on the GTS. We would first need approval from NWS. | NESDIS |
| 2017-3 | LEO radiances1.7 | *1.6* | NESDIS to investigate the possibility of putting Windsat/Coriolis data on the GTS | New 2017 Update (October 2018): NESDIS/OSPO provides Windsat data to NWS/NCEP and converts it to McIDAS format for SAB. The data are available from the PDA in SDRs and EDRs. In our investigation, we discovered NWS NCEP is the NOAA gatekeeper of products disseminated on the GTS. We would first need approval from NWS. | NESDIS |
| 2017-4 | LEO radiances1.9 | *1.9.2* | NESDIS to provide the Spectral Response Functions of VIIRS for JPSS-1 | New 2017 Update (August 2018): NOAA-20 SRFs can be found at: https://ncc.nesdis.noaa.gov/NOAA-20/J1VIIRS\_NOAA20\_SpectralResponseFunctions.php. | NESDIS |
| 2015-1 | LEO radiances1.19 | *AP-1.2.1* | Fengyun-3 Sounding Mission – investigate the generation of BUFR and the dissemination of these data via the GTS and CMACast | Update Oct 2015: Still in discussion.Update (May 2017): discussions to be continued with EUMETSAT in order to put the data on the GTS. Data available in HDF5 format through the GISC Beijing portalSTATUS (May 2017): still open | CMA |
| 2015-2 | LEO radiances1.19 | *AP-1.2.1* | Fengyun-3 Sounding Mission – CMA to work with EUMETSAT to come up with a proposal to add the encoding sequence for the sounding products from Fengyun-3 to the WMO Manual on Codes. | Update Oct 2015: A BUFR sequence is used in AAPP and should be adopted by WMO.Update (May 2017): needs to be finalized. WMO meeting in JulySTATUS (May 2017): still openStatus (Nov 2018): Sequences formally added Manual on Codes for MWHS (3-10-071), MWTS (3-10-070), and IRAS (3-10-072). **Proposed for closure** | CMA and EUMETSAT |
| 2015-3 | LEO radiances1.19 | *AP-1.2.1* | Fengyun-3 Sounding Mission to CMA: CMA to investigate timeliness of FY-3 global dataset. | STATUS: OPEN (Oct 2015)Update (May 2017): Improvements expected with FY3-D (Antartica acquisition).STATUS (May 2017): still open | CMA |
| 2017-5 | GEO radiances2.8 |  | CMA to provide information on the dissemination plan of FY-4A data  | New 2017 | CMA |
| 2017-6 | GEO radiances2.7, 2.8 |  | CMA to provide the Spectral Response Functions from GIIRS and AGRI instruments on FY-4A | New 2017 | CMA |
| 2017-7 | GEO radiances2.6 |  | CMA to investigate the possibility of putting FY-2E CSRs on the GTS  | New 2017 | CMA |
| 2017-8 | GEO radiances2.8 |  | CMA to investigate the possibility of putting FY-4A CSRs on the GTS  | New 2017 | CMA |
| 2015-8 | GEO Radiances2.9 | *AP-2.10* | COMS CSR and ASR - KMA, ECMWF and EUMETSAT to investigate mechanisms to make COMS CSR and ASR products available in real-time | STATUS: OPEN (Oct 2015)Update (May 2017): COMS CSR will be available on GTS by end of 2017. COMS ASR data are not generated.STATUS (May 2017): still open

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| Update (Nov 2018): COMS CSR have been available on GTS Since 11th Apr. of 2018. No plan of COMS ASR generation |

~~STATUS (May 2017): still open~~Status (Nov 2018): COMS CSR was added to the GTS from 25/04/18 with ABHs IURX01 RKSL. **Proposed for closure** | KMA, ECMWF, EUMETSAT |
| 2015-10 | GEO radiances2.11 | *AP-2.13* | INSAT-3D - EUMETSAT to continue to investigate INSAT-3D products (ASR, CSR) and report back on progress | STATUS: OPEN (Oct 2015)Update (May 2017): IMD will provide CSR in few monthsSTATUS (May 2017): still openStatus (Nov 2018): We have access to the following from MOSDAC: L1 image data, GPI (L2G GOES precipitation index), HEM (L2B rainfall hydro method), IMR (L2G rainfall IMSRA method), IRW (L2P TIR1 winds), OLR (L2B outgoing longwave radiation), SA1/2 (L2B sounder from Sector 1/2), SST (L2B sea surface temperature), UTH (L2B upper tropospheric humidity), and WVW (L2P water vapour winds). **Proposed for closure** | EUMETSAT |
| 2010-1 | Land+Atm Products(3.1,3.3) | *NA-1.1.4* | ATOVS AVHRR polar winds (formerly Action 2010-10-05): The Bureau to consider the generation of polar AMVs from MODIS/VIIRS and distribution to the international community in near real time. | STATUS: OPEN (Feb 2010)The Bureau has agreed to do this and has been added to the project plan; however, resources are constrained. Timing cannot be estimated at this time – Target: mid-2012. In progress.May 2014 update: this work is still planned but hasn’t been done yet. There are issues with the reception systems at Casey and Davis – they will be replaced next SH summer (late 2015).Update Oct 2015 – still open, could be done if required. Should be reflected in requirements document.Update (May 2017): The Bureau plans to have operational VIIRS polar winds available by the end of 2017.STATUS (May 2017): still openUpdate (November 2018): given that the low latency product from NESDIS will meet requirements, recommend close this action and work with NESDIS to fill gaps if required. | BOM |
| 2015-16 | Land+Atm Products(3.3) | *NA-1.9.4* | VIIRS Polar Winds - NESDIS to investigate the possibility to improve timeliness of VIIRS polar winds. | STATUS: OPEN (Oct 2015)Update (May 2017): timeliness will be improved with McMurdo station for JPSS-1STATUS (May 2017): still open. Update (August 2018): We are expecting that NOAA-20 VIIRS Polar Winds (VPW) will be operational around March 2019. NOAA-20 VPW will have improved latency due to the addition of using the downlink at McMurdo. | NESDIS |
| 2017-9 | Land+AtmProducts3.11 |  | CMA to investigate the possibility of putting FY-4 AMVs on the GTS | New 2017 | CMA |
| 2015-4 | Land+Atm Products3.34 | *AP-1.2.2* | Fengyun-3 Ozone Mission – Request to CMA to consider making ozone data from FY-3 TOU, SBUS available through GTS | STATUS: OPEN (Oct 2015)Update (May 2017): TOU Level1 FY3-A and 3B are available on Beijing GISCSTATUS (May 2017): still open | CMA |
| 2017-10 | Ocean products4.12 |  | NMSs to evaluate the possibility of using 1/12° NCEP SST analyses in replacement of 1° and ½° SST analyses | New 2017Update (Nov 2018): KMA has no plan of this action Status (Nov 2018): As EUMETSAT is not an NWS the action is not relevant for us. The action should be on All NMHSs. **Proposed for update** | All |
| 2017-11 | Digital+other products5.9 |  | NOAA to find out if there is a 1 km snow cover product availableNOAA/NCEP | New 2017Update (Nov 2018): NCEP does not have such a product; however, we believe the National Ice Center does. We have reached out to them to confirm. | NOAA/ NCEP |
| 2015-9 | Digital + other products5.13 | *AP-2.12.4* | SEDA – JAXA to report on availability of data from SEDA on Himawari-8 | STATUS: OPEN (Oct 2015)Update (Oct 2015): SEDA is a JAXA instrument.Update (May 2017): Follow up with JAXASTATUS (May 2017): still openSEDA data are distributed from NICT to BoM. And also the data are provided to Met Office. This information was provided by e-mail from Yuki Honda to Nigel Atkinson in 27 Oct, 2017. This action item is closed. | JAXA -> JMA |
| 2017-12 | Active Sensors6.2 |  | NOAA to update the origin of their Jason-2 data (OGDR and IGDR) | New 2017Update (Nov 2018): Jason-2 OGDR is available via GTS as headed products “ISZX01 (EUMS|KNES)” on 1-day delay. Jason-2 IGDR is not on GTS but is available directly from NESDIS, or also as an ASCII-reformatted and interpolated product from the U.S. Naval Oceanographic Office (NAVOCEANO), on 2-day delay. There are no restrictions on the IGDR data, so global users may contact NESDIS or NAVOCEANO directly to arrange access. NOAA produces OGDRs from telemetry downloaded at the US CDAs (Wallops, Fairbanks, and Barrow) Supplemental Response from NOAA Jason PAL - EUMETSAT produces OGDRs from telemetry downloaded at Germany (Usingen). OGDRs are shared between NOAA and EUMETSAT via direct line between SOCC and EUMETSAT. OGDR BUFR files in WMO format are distributed via GTS. NWS receives OGDRs in NWS BUFR format via PDA. IGDRs are produced by CNES/CLS (Toulouse) and distributed to NOAA via direct line between SOCC and EUMETSAT. NAVO produces optimally interpolated IGDR fields using their Operational Altimeter Sea Level Products System (ALPS), which are distributed over the DAPE.  | NOAA |
| 2017-13 | Active Sensors6.5 |  | BoM to update on the origin of RADS OGDR product (Altika) | New 2017 | BOM |
| 2015-13 | Active Sensors6.6, and Ocean Products4.6 | *Eu-1.9* | Sentinel - EUMETSAT to investigate the provision of Sentinel-3 SRAL and SLSTR data on GTS in NRT, with the European Commission, with assistance from WMO as appropriate | STATUS: OPEN (Oct 2015)Update (May 2017): The request has been sent by EUMETSAT to the EC. Waiting for response.STATUS (May 2017): still openStatus (Nov 2018): Sentinel-3 SRAL data will be on the GTS before the end of 2018. SLSTR SST is on EUMETCast but is too big for the GTS. **Proposed for closure** | EUMETSAT |
| 2017-14 | Active Sensors6.8 |  | WMO requests NOAA to provide the ASCAT-EARS from Miami station on the GTS | New 2017 Update (October 2018): Liam Gumley, CIMSS, met with Simon Elliot on this subject. Simon reports EUMETSAT is considering whether they can provide the ASCAT Level 1 processing software to NOAA/CIMSS, in order to process the ASCAT data in real time at Miami. If yes, we can take the next step to examine putting the data on GTS. | NOAA |
| 2017-15 | Active Sensors6.12 |  | MSC to check on the availability of free access RADARSAT-2 data | New 2017No. There is no free access to RS2. (oct. 9, 2018)RCM open licence is under discussion (oct. 9 2018) | MSC |
| 2015-6 | Active Sensors6.14LEO radiances 1.16 | *AP-12.6* | GPM-core - JMA, NESDIS and EUMETSAT to investigate possibility of distributing GMI/GPM-core data in BUFR on GTS. | STATUS: OPEN (Oct 2015)STATUS (May 2017): still openStatus (Nov 2018): EUMETSAT receives GMI L1 data from NASA, converts them to BUFR and redistributed via EUMETCast. Technically EUMETSAT could support the redistribution via GTS, if asked by GPM consortium and agreed by Member States. **Proposed for update** | JMA, NESDIS, EUMETSAT |
| 2017-16 | RO7.8 |  | NCEP will enquire about the distribution of SEOSAR/Paz on the GTS | New 2017Update (Nov 2018): NESDIS has negotiated an MOU with Spain for access to the data, but it hasn’t been formally signed yet. It’s unclear whether Spain plans to distribute the data themselves on the GTS, or whether NESDIS will do so on their behalf under terms of the MOU. | NCEP, NESDIS |
| 2017-17 | RO7.9 |  | CMA to investigate real-time availability and BUFR encoding of GNOS RO data on the GTS (bending angles and refractivity) | New 2017 | CMA |
| 2015-5 | RO7.9 | *AP-1.2.4* | 4 Fengyun-3 GNSS Sounding Mission – CMA to investigate real-time availability and BUFR encoding of GNOS radio-occultation data on the GTS (bending angles and refractivity). | STATUS: OPEN (Oct 2015)Update (May 2017): In progress. Should be made available soon on GTS for GNOS/FY-3CSTATUS (May 2017): still open | CMA |
| 2015-7 | RO7.10 | *AP-1.9* | 9 KOMPSAT-5 AOPOD - KMA to investigate real-time availability of KOMPSAT-5 radio-occultation data on the GTS (bending angles and refractivity) | STATUS: OPEN (Oct 2015)Update (May 2017): Not ready for GTS. Maybe an update on progress at the end of 2017.Update (Nov 2018): NESDIS has a signed MOU with KMA, whereby NESDIS will disseminate this data on the GTS. Date and GTS headers are still TBD.Update (Nov 2018): still time delay issue of data processing issue. No plan of data release on GTS | KMA |
| 2017-18 | RO7.11 |  | IMD to put MT-ROSA GNSS-RO data on the GTS | New 2017 | IMD |
| 2017-19 | Non satellite8.3 |  | MSC to investigate the possibility of getting GB-GNSS data from Canada and to be provided to E-GVAP | New 2017Agreements are underway with private sector to access RINEX files. | MSC |
| 2017-20 | Non satellite8.3 |  | Following the KMA and JMA initiative to put GB-GNSS data on the GTS, other NWSs from Asia-Pacific region are also encouraged to provide their data on the GTS | Update: (November 2018): GB-GNSS data are currently being assessed for quality.  | BOM, CMA |
| 2017-21 | Non satellite8.30 |  | NOAA/NCEP to examine the possibility of putting VAD winds from the US radar network on the GTS | New 2017Update (Nov 2018): Undergoing requirements review to determine level-of-effort to reformat as standard BUFR and disseminate on GTS. | NCEP |
| 2015-11 | Non satellite8.41, 8.42, 8.43 | *AP-3.4* | Hourly Surface Observations - All Country Reps to lobby with their National observation and dissemination areas to investigate making hourly (or higher frequency) surface data available on GTS | STATUS: OPEN (Oct 2015)STATUS (May 2017): still openUpdate (Nov 2018): KMA, still open | All NMHSs |
| 2015-12 | Non-satellite8.40 | *AP-3.12* | Snow depth - CMA to investigate availability of in situ snow depth data in real time on WIS. There is a specific, recently WMO-approved SNOW BUFR template for the exchange of snow-depth data | STATUS: OPEN (Oct 2015)Update (May 2017): Some stations are available on the GTS but many more are missing (as reported by ECMWF)STATUS (May 2017): still open | CMA |
| 2015-14 | Non satellite, Surface Observations(8.41-8.43) | *Eu-3.2* | Surface Observations - All to reiterate the requirement to exchange surface pressure observation with high frequency, hourly, and higher where available. Action on ECMWF to report at the next meeting on the evolution on the availability of hourly surface pressure observations, globally | STATUS: OPEN (Oct 2015)Update (May 2017): Hourly reports are available for some countries (e.g. Brazil) but not generalized yetSTATUS (May 2017): still openStatus (Nov 2018): As EUMETSAT has no requirement for non-satellite surface pressure observations, the action is not relevant for us. The action should be on All NMHSs.ECMWF is cooperating with Brasil, under WIGOS ID framework, to make available high frequency observations on GTS.  **Proposed for update** | ALL, ECMWF |
| 2015-15 | Non satellite, Radiosondes/Ozonesondes (8.20-8.23) | *Eu-3.11* | Ozone Soundings: Enquire about availability of Ozone Soundings for validation | STATUS: OPEN (Oct 2015)Update Oct 2015: Still needed for validation, not needed on GTS. Need a contact point.Update (May 2017): ECMWF will enquire about a contact pointSTATUS (May 2017): still open | ALL |
| 2015-17 | Non satellite (8.38) | *NA-4.11* | Snow Depth (in-situ) - NOAA-NWS to investigate the possibility of distributing snow depth data in near real time from surface sites (Snow depth sensor data; non-synop). ECMWF is prepared to assist in providing justification. | STATUS: OPEN (Oct 2015)STATUS (May 2017): still openUpdate (Nov 2018): NCEP/NCO is coordinating funding for a MADIS project to convert this data from its native SHEF format to BUFR and distribute on the GTS. This will use new BUFR sequence 3-07-103 and cover all available data from the U.S. SNOTEL, SCAN and COOP programs.ECMWF: welcome NCEP/NCO project. | NWS, ECMWF |
| 2014-1 | Non satellite8.9 | *AP-3.1* | Wind Profiler Data – investigate the distribution of wind profiler data on the GTS. See Action 2011-11-10 | STATUS: OPEN (May 2014)STATUS (May 2017): still open | CMA |
| 2014-2 | Non satellite, Radiosondes/Ozonesondes (8.20-8.23) | *Eu-3.11* | Ozone Soundings – determine if there is still an unmet requirement for these data | STATUS: OPEN (May 2014)Update (May 2017): MSC will enquire if there is a need for real time O3 soundingsSTATUS (May 2017): still open | NOAA and MSC |
| 2012-1 | Non satellite (8.47-8.49) | *NA-4.7* | Soil temperature sensor data: All Centres to investigate putting soil temperature and moisture observations on the GTS. | Oct 2012: Open26 May 2014: Update from NESDIS: NESDIS has a soil moisture product available on the DDS in NetCDF4 and GRIB2 formats, but not on the GTS. NOAA has no plans to put in situ soil moisture observations on the GTS. Other centres to provide an update at the next meeting.EUMETSAT Current Status (Oct-2014): ASCAT SOMO data is on the GTS. Please refer to ASCAT Soil Moisture products in the Product Navigator:http://navigator.eumetsat.int/discovery/Start/Explore/Quick.doOct 2015: KMA is not ready to put those data on the GTS yet due to the data quality validation.

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| Update (Nov 2018): KMA has no plans of those data on the GTS. |

Update Oct 2015: action is about in-situ measurement. Should be raised with the WMO ET-SBO. Remains open.Update (May 2017): still openAs EUMETSAT has no involvement in non-satellite soil temperature and moisture data, the action is not relevant for us. The action should be on All NMHSs. **Proposed for update** | All Centres |