**GODEX-NWP-1**

**Open Action Items**

**17 May 2017**

**GODEX-NWP Actions after May 2017 Meeting**

**AP-1.2.1 Fengyun-3 Sounding Mission** – investigate the generation of BUFR and the dissemination of these data via the GTS and CMACast.

**ACTION: CMA**

**STATUS: OPEN (May 2014)**

**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 portal

**STATUS (May 2017): still open**

**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.

**ACTION: CMA and EUMETSAT**

**STATUS: OPEN (May 2014)**

**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 July

**STATUS (May 2017): still open**

**AP-1.2.1 Fengyun-3 Sounding Mission to CMA**: CMA to investigate timeliness of FY-3 global dataset.

**ACTION: CMA**

**STATUS: OPEN (Oct 2015)**

**Update (May 2017):** Improvements expected with FY3-D (Antartica acquisition).

**STATUS (May 2017): still open**

**AP-1.2.2** **Fengyun-3 Ozone Mission** – Request to CMA to consider making ozone data from FY-3 TOU, SBUS available through GTS ~~or GISC~~.

**ACTION: CMA**

**STATUS: OPEN (Oct 2015)**

**Update (May 2017): TOU Level1 FY3-A and 3B are available on Beijing GISC**

**STATUS (May 2017): still open**

**AP-1.2.4** **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).

**ACTION: CMA**

**STATUS: OPEN (Oct 2015)**

**Update (May 2017):** In progress. Should be made available soon on GTS for GNOS/FY-3C

**STATUS (May 2017): still open**

**AP-1.6 GPM-core** - JMA, NESDIS and Eumetsat to investigate possibility of distributing GMI/GPM-core data in BUFR on GTS.

**ACTION: JMA, NESDIS, EUMETSAT**

**STATUS: OPEN (Oct 2015)**

**STATUS (May 2017): still open**

**AP-1.9 KOMPSAT-5 AOPOD** - KMA to investigate real-time availability of KOMPSAT-5 radio-occultation data on the GTS (bending angles and refractivity)

**ACTION: KMA**

**STATUS: OPEN (Oct 2015)**

**Update (May 2017): Not ready for GTS. Maybe an update on progress at the end of 2017.**

**STATUS (May 2017):** **still open**

**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.

**ACTION: KMA, ECMWF, EUMETSAT**

**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**

**AP-2.12.4 SEDA** -JMA to investigate availability of data from SEDA on Himawari-8.

**ACTION: JAXA**

**STATUS: OPEN (Oct 2015)**

**Update (Oct 2015):** SEDA is a JAXA instrument.

**Update (May 2017**): **Follow up with JAXA**

**STATUS (May 2017): still open**

**AP-2.13 INSAT-3D** - EUMETSAT to continue to investigate INSAT-3D products (ASR, CSR) and report back on progress.

**ACTION: EUMETSAT**

**STATUS: OPEN (Oct 2015)**

**Update (May 2017): IMD will provide CSR in few months**

**STATUS (May 2017): still open**

**AP-3.1. Wind Profiler Data** – investigate the distribution of wind profiler data on the GTS. See Action 2011-11-10

**ACTION: CMA**

**STATUS: OPEN (May 2014)**

**STATUS (May 2017): still open**

**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.

**ACTION: All NMHSs**

**STATUS: OPEN (Oct 2015)**

**STATUS (May 2017): still open**

**AP-3.8 GB-GPS** - CMA to investigate provision of ground-based GPS data.

**ACTION: CMA**

**STATUS: OPEN (Oct 2015)**

**STATUS (May 2017): still open**

**AP-3.10 Australian buoy wave** - BoM to look into making wave buoy data available.

**ACTION: BoM**

**STATUS: OPEN (Oct 2015)**

**Update May 2017: Buoy data is on the GTS.**

**STATUS (May 2017): CLOSED.**

**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.

**ACTION: CMA**

**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**

**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.

**ACTION: EUMETSAT**

**STATUS: OPEN (Oct 2015)**

**Update (May 2017): The request has been sent by EUMETSAT to the EC. Waiting for response.**

**STATUS (May 2017): still open**

**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.

**ACTION: ALL, ECMWF**

**STATUS: OPEN (Oct 2015)**

**Update (May 2017): Hourly reports are available for some countries (e.g. Brazil) but not generalized yet**

**STATUS (May 2017): still open**

**Eu-3.11 Ozone Soundings** – determine if there is still an unmet requirement for these data.

 **ACTION: NOAA and MSC**

**STATUS: OPEN (May 2014)**

**Update (May 2017): MSC will enquire if there is a need for real time O3 soundings**

**STATUS (May 2017): still open**

**Eu-3.11 Ozone Soundings:** Enquire about availability of Ozone Soundings for validation.

**ACTION: ALL**

**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 point**

**STATUS (May 2017): still open**

**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.

**Lead: BoM**

**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 open**

**NA-1.9.4 VIIRS Polar Winds** - NESDIS to investigate the possibility to improve timeliness of VIIRS polar winds.

**ACTION: NESDIS**

**STATUS: OPEN (Oct 2015)**

**Update (May 2017):** timeliness will be improved with McMurdo station for JPSS-1

**STATUS (May 2017): still open**

**NA-4.7 Soil temperature sensor data:** All Centres to investigate putting soil temperature and moisture observations on the GTS.

**ACTION: All Centres**

**STATUS: OPEN (Oct 2012)**

26 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.do>

**Oct 2015:** KMA is not ready to put those data on the GTS yet due to the data quality validation.

**Update Oct 2015:** action is about in-situ measurement. Should be raised with the WMO ET-SBO. Remains open.

**Update (May 2017**):

**STATUS (May 2017): still open**

**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.

**ACTION: NWS, ECMWF**

**STATUS: OPEN (Oct 2015)**

**STATUS (May 2017): still open**

**List of new actions**

**LEO satellites**

1.7: Specify in the spreadsheet document the data stream by which the SSMI/S brightness temperatures are received (NESDIS, EUMETCast, or MetOffice)

*All centers*

1.8: NESDIS to investigate the possibility of putting Aqua/AMSU-A data on the GTS

*NESDIS*

1.9: NESDIS to investigate the possibility of putting Windsat/Coriolis data on the GTS

*NESDIS*

Remove the specific lines associated with DBNet data and put them in the “availability” column of the spreadsheet document

*Task team*

1.11: NESDIS to provide the Spectral Response Functions of VIIRS for JPSS-1

*NESDIS*

1.12: Merge the METOP-A/METOP-B AMSU-A/MHS/HIRS three lines (1.12, 1.13, 1.14) in one single line

*Task team*

1.17: Merge lines 1.17 (19) and 1.18 (20) in the corresponding satellites regarding the DBNet use

*Task team*

1.15: Specify in the spreadsheet document the data stream by which the IASI radiances are received and used

*All centers*

**GEO satellites**

Merge METEOSAT-8, -10 and -11 lines. One for CSR and another for ASR

*Task team*

2.10: CMA to provide information on the dissemination plan of FY-4A data

*CMA*

2.10: CMA to provide the Spectral Response Functions from GIIRS and AGRI instruments on FY-4A

*CMA*

**Land+Atmospheric Products**

3.4: Examine the possibility to merge the “DIRECT READOUT” line within the corresponding satellites

*Task team*

3.10: CMA to investigate the possibility of putting FY-2E CSRs on the GTS

*CMA*

3.10: (FY-2E) Put back the ECMWF original contribution

*Task team*

3.11: CMA to investigate the possibility of putting FY-4A CSRs on the GTS

*CMA*

3.19: Shall we leave it ? Needed only for Nordic countries

*Task team*

3.23: Get the URL access for IMERG precipitation product (to put in the “availability” column)

*Task team*

3.28: OCO-2 check if the requirement of MSC is OK

*Task team*

3.37: Shall we leave it ? Needed only for Nordic countries

*Task team*

3.40: Remove Aquarius that has been dead for years

*Task team*

**Ocean products**

4.2: To check that METOP-A and METOP B can be added (blended product)

*Task team*

4.10: Add a new line for METEOSAT SSTs (OSI SAF product)

*Task team*

4.8: NMSs to evaluate the possibility of using 1/12° NCEP SST analyses in replacement of 1° and ½° SST analyses

*All centers*

4.13: Check the web site where SMOS salinity could be made available in real time (info on OSCAR data base)

*Task team*

**Digital+other products**

5.2: Add FY-4 line below FY-2 for digital imagery

*Task team*

5.4: DWD check for the need of Digital Imagery for HIMAWARI-8

*DWD*

5.10: Move the NOAA/NCEP cell in to “availability”

*Task team*

5.10: NOAA to find out if there is a 1 km snow cover product available

*NOAA/NCEP*

**Active sensors**

6.2: NOAA to update the origin of their Jason-2 data (OGDR and IGDR)

*NOAA*

6.3/6.4: Météo-France to update the requirement for Jason-3

*MF*

6.5: Météo-France to update the requirement for Altika

*MF*

6.5: BoM to update on the origin of RADS OGDR product (Altika)

*BoM*

6.7: MetOffice and Météo-France to update on the interest of HY2-A altimeter data

*MetOffice and MF*

6.8: WMO requests NOAA to provide the ASCAT-EARS from Miami station on the GTS

*NOAA*

Add the “NCMRWF “column in this page

*Task team*

6.12: MSC to check on the availability of free access RADARSAT-2 data

*MSC*

6.15 Move the “Cryosat-2” line to the “Altimeters” section (on the same page)

*Task team*

**RO**

7.6: NCEP will enquire about the distribution of SEOSAR/Paz on the GTS

*NCEP*

7.7: CMA to investigate real-time availability and BUFR encoding of GNOS RO data on the GTS (bending angles and refractivity)

*CMA*

7.9: For IMD to put MT-ROSA GNSS-RO data on the GTS

*IMD*

Inquire about the availability of GNSS-RO data from GRACE-FO

*Task team*

**Non Satellite**

8.1/8.3: These two lines on tropical cyclones could be merged

*Task team*

8.4/8.5/8.6: These three lines on GB-GNSS could be merged

*Task team*

8.5: MSC to investigate the possibility of getting GB-GNSS data from Canada and to be provided to E-GVAP

*MSC*

8.5: Put information that Met Services can contact UCAR to set-up bi-lateral agreements in order to get ground based GPS data from US

*Task team*

8.5: 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

*BoM, CMA*

8.32: NOAA/NCEP to examine the possibility of putting VAD winds from the US radar network on the GTS

*NOAA*

Points of Contact for information

I.1 POC at Met Office

Roger Saunders

VAD winds: Myles Turp (Myles.Turp@metoffice.gov.uk)

Further information can be found at: <http://www.metoffice.gov.uk/research/interproj/cwinde/wradar/index.html>

[http://www.metoffice.gov.uk/research/interproj/cwinde/index.html](http://www.metoffice.com/research/interproj/cwinde/index.html)

ATOVS: Nigel Atkinson

TELECOMS: Chris Little

I.2 POC at NOAA/NESDIS

NESDIS Office of Satellite and Product Operations: John Paquette, Vince Tabor

NOAA-NESDIS Office of International and Interagency Affairs: Derek Hanson

Existing NESDIS ESPC DDS and NDE users with questions should contact:

Donna McNamara (Data Access Manager) donna.mcnamara@noaa.gov

Chris Sisko (JPSS Data Operations Manager) chris.a.sisko@noaa.gov

Matt Seybold (GOES-R Data Operations Manager) matthew.seybold@noaa.gov

New users with questions should contact:

NESDIS Satellite User Services NESDIS.Data.Access@noaa.gov

I.3 POC at NOAA/NWS/NCEP

Michelle Mainelli (Michelle.mainelli@noaa.gov )

Sea-ice analysis: Robert Grumbine

SST analysis: Hendrik Tolman

MDCRS: Bradley Ballish

I.4 POC at ECMWF

Erik Andersson,

Satellite data: STEPHEN ENGLISH Gridded products: Dragan Jokic

Observation data formats: Ioannis Mallas

I.5 POC at NOAA/NWS IA

Fred Branski fred.branski@noaa.gov

I.6 POC at NOAA/NWS OPS

TBD

I.7 POC at EUMETSAT

Kenneth Holmlund,

Simon Elliott

I.8 POC at MSC

Simon Pellerin simon.pellerin@ec.gc.ca

Gridded outputs and formats: Yves Pelletier

I.9 POC at Meteo France

Jean-Francois Mahfouf

Herve Roquet

I.10 POC at WMO

Jerome Lafeuille, Mikael Rattenborg

Add Stephan Bojinski.

I.11 POC at DWD

Alexander Cress

Robin Faulwetter

I.12 POC at JMA/JAXA

GCOM AMSR-2, Mr. ITO, Norimasa, ito.norimasa@jaxa.jp

Other satellite data, Mr. FUJIMOTO, Nobuyoshi, fujimoto.nobuyoshi@jaxa.jp

**Resources:**

**WMO Data Access and Software Tools:**

[**http://www.wmo.int/pages/prog/sat/accessandtools\_en.php**](http://www.wmo.int/pages/prog/sat/accessandtools_en.php)

**WMO Observing Systems Capability Analysis and Review Tool (OSCAR) Space-based home page:**

[**http://www.wmo-sat.info/oscar/spacecapabilities**](http://www.wmo-sat.info/oscar/spacecapabilities)

**WMO OSCAR List of All Satellite Programmes:**

[**http://www.wmo-sat.info/oscar/satelliteprogrammes**](http://www.wmo-sat.info/oscar/satelliteprogrammes)

**WMO Satellite User Readiness Navigator (SATURN):**

[**http://www.wmo-sat.info/satellite-user-readiness**](http://www.wmo-sat.info/satellite-user-readiness)