

Products and Software Working Group report from ITSC-22

Graeme Martin (SSEC/UW)

Nigel Atkinson (Met Office)

Nathalie Selbach (DWD)

Hyunjong Oh (KMA)

Hee-Jung Kang (KMA)

Norio Kamekawa (JMA)

Martin Burgdorf (Univ Hamburg)

AK Sharma (NOAA)

Lihang Zhou (NOAA)

Dorothee Coppens (EUMETSAT)

Masami Moriya (JMA)

Pascale Roquet (Meteo-France)

David Howard (BoM)

Scott Mindock (SSEC/UW)

Kathy Strabala (SSEC/UW)

Geoff Cureton (SSEC/UW)

Meeting Agenda

- Introduction
- Review of action items from ITSC-21
- New topics for ITSC-22
 - Software packages
 - New sensors
 - DBNet
 - Miscellaneous

Actions items review

Action ITSC21-PSWG-2: KMA and SSEC to come up with a plan to make the GK-2A software available to DB users.

- Keep this open
- Data is distributed via ftp or UHRIT. L1 software will be available from a third party. L2 software is at validation stage. KMA and CSPP team to discuss ways to release L2 software to users.

Action ITSC-21-PSWG-3: VIIRS cloud products within CrIS FOV

- VIIRS clusters are implemented in AAPP but not yet used by NOAA

New Action PSWG-1: Nigel Atkinson to provide Lihang Zhou with information on the VIIRS to CrIS clustering in AAPP.

Actions items review (cont.)

Action ITSC-21-PSWG-4 Nigel Atkinson to look at the CrIS PC product and compare the implementation with that used for IASI.

- Keep this open
- NOAA planning to resume generation of this product

Recommendation ITSC21-PSWG-8 to NOAA and the CSPP team. Support the creation of VIIRS products for nowcasting, similar to the existing MODIS products.

- No strong interest from within the group, but is there interest from others in ITSC?

Actions items review (cont.)

Anomaly/event notifications

- Widen the recommendation made previously:

New Recommendation PSWG-1: Agencies to implement subscription-based notification of anomalies or events that impact users.

Scripted retrievals from NOAA/CLASS, and access to data

- CM SAF has successfully experimented with scripted retrievals
- NOAA has a 90-day rolling archive of recent data

New Action PSWG-3: Lihang Zhou to discuss with the CLASS team whether a scripted retrieval from CLASS can be supported to allow easier access to larger/historic data amounts

New Action PSWG-4: Lihang Zhou to circulate a link to the NOAA 90-day rolling archive.

Software packages

Operating systems

- CentOS6 will reach end of life in November 2020

Recommendation PSWG-2: software providers should give advance notice of plans for moving to new operating systems. 1 year is considered reasonable notice.

Use of “containers”

- These can help to reduce external dependencies and make it easier to install software.

Recommendation PSWG-3: Software providers are encouraged to explore the use of containers for packaging their software.

Software packages (cont.)

New versions

- It often takes significant effort to install new versions of a software package
- Recommendation PSWG-4: Software providers should avoid frequent package updates. As a guide, not more than twice per year is recommended, excluding patches.***

New sensors

Test data

- The main interest in PSWG is in having test data in the correct format – to prepare downstream processors
- Other users will need scientifically valid data

Recommendation PSWG-5: EUMETSAT to provide a schedule for release of different types of test data for both EPS-SG and MTG.

Processing software

- Noting that EPS-SG DB software was originally designed for global processing and is likely to demand high-spec machines:

Recommendation PSWG-6 to Agencies: when designing software, keep DB users in mind from the outset in order to minimise costs at the user end.

DBNet

ASCAT processor

- This has been raised in the past, but there is still interest from some users in remote regions

Action PSWG-5: PSWG co-chairs to ask EUMETSAT for an update on the feasibility of providing ASCAT processing software to DB users.

Miscellaneous

Timeliness

- CrIS latency and granule yield per pass are affected by rigid sliding window requirements of SDR software.

Recommendation PSWG-7: CSPP team to look into reducing the latency and improving the coverage of CrIS products.

AMSR-2

- AMSR-2 is not currently widely used in DB, partly due to difficulty obtaining L1 software. But there is interest from some users.

Recommendation PSWG-8: JAXA to consider providing AMSR-2 L1 software for release to DB community. The CSPP team could host it.

Miscellaneous (cont.)

Imagers

Recommendation PSWG-9 to Agencies: Where a sounder and imager are on the same platform, a means should be provided to map the imager data to the sounder fields of view, so that the users have ready access to this information.

RFI

Recommendation PSWG-10: The frequencies used in DB reception (L band and X band) should be preserved, to ensure continued fidelity of downlink reception.

Miscellaneous (cont.)

Web site

Action PSWG-6: PSWG co-chairs to update the group web page by next ITSC, assuming Wordpress is implemented by CIMSS as planned.