WMO RA-3-4-SDR Teleconference (25th)
22 March 2018, 14.00-15.30 UTC

Attendees:

Bryan Thomas (T&T)
David Bradley (ECCC) (co-chair)
Luiz Machado (INPE) (co-chair)
Andre Joyeux (St Lucia)
Diego Souza (INPE)
Bernie Connell (CIRA)
Dwayne Scott (Belize)
Glendell de Souza (CMO)
Jorge Chira (Peru)
Hongming Qi (NOAA)
William Abarca (El Salvador)
Kathy-Ann Caesar (CIMH)
Natalia Donoho (NOAA)
Estela Collini (SMN Argentina)
Diana Rodriguez (SMN Argentina)
Diego Campos (DMC Chile)
Edison Cruz (Ecuador)
Stephan Bojinski (WMO)

Agenda items are:

1. **Status of Actions**
2. **Update on GOES-16 Data Uptake**
3. **AOB**

1. **Status of Actions**

ACTION 3.1: The Group to assist Members as needed in applying for access to the PDA.

Members cannot apply for new access to the PDA – registration process remains frozen. Trinidad and Tobago would like to apply for accessing data through PDA. Argentina receive GOES-16 data via the PDA, and raised an issue with PDA services around 20 March 2018. NOAA confirmed a recent outage of the PDA, now back to nominal operations. INPE maintains a ftp site with GOES-16 imagery.

CIRA maintain a website which can serve as backup option: http://rammb-slider.cira.colostate.edu/?sat=goes-16&sec=full_disk&x=10847.75&y=10847.75&z=0&im=12&ts=1&st=0&et=0&speed=130&motion=loop&map=1&lat=0&p%5B0%5D=16&opacity%5B0%5D=1&hidden%5B0%5D=0&pause=0&slider=-1&hide_controls=0&mouse_draw=0&s=rammb-slider

SSEC/U Wisconsin maintain another website with animations: http://cimss.ssec.wisc.edu/goes/goesdata.html

NOAA: https://www.star.nesdis.noaa.gov/GOES/index.php#

ACTION 3.2: The VLab CoEs to organize a training session in Spanish on accessing NOAA data through PDA and CLASS, once these routes are available.

SMN continue working on the online PDA access instructions module.

ACTION 3.15: EUMETSAT to send a notification to ex-EUMETCast Americas users on behalf of RA 3-4-SDR, indicating details on the switch-over to GNC-A.

No notification received apart from official bulletin on EUMETSAT website. Since Nov 2017, five additional stations

have been converted to GNC-A, and two new institutions are interested in this (D. Souza). SMN Argentina have nearly converted their stations.

INPE successfully tested EUMETCast Terrestrial prototype service.

ACTION 3.9: In a Group teleconferences, to focus on the Unidata LDM, and on the DCS system (in Spanish). Scott Rogerson (NOAA DCS manager) should be involved.

D. Souza informed that Marcial Garbanzo helped Belize, Aruba and Trinidad&Tobago use the Unidata LDM. D. Scott confirmed the system was working well, with GLM data coming in regularly.

N. Donoho informed that GLM data are now available on Amazon Web Services. Through the command line interface https://aws.amazon.com/cli, you can see what data is there by doing the following on the command line

aws s3 ls noaa-goes16/GLM-L2-LCFA/

The Action remains open; confirm that Marcial Garbanzo leads this effort. He confirmed by correspondence that he is writing a manual in Spanish on how to achieve this in a simple way.

ACTION 3.10: H. Qi to find training resources on the PDA within NOAA (Donna Macnamara) and organize together with B. Connell and INPE, SMN a training on using the PDA.

Donna Macnamara informed that NOAA provide guidance when a user is approved and invite them to a training session via WebEx. For international users NOAA make their subscriptions to the PDA.

Resources are available for approved users of the PDA.

Action to be closed.

ACTION 3.16: Group to provide comments on the proposed JPSS data on GNC-A.

ID#	GENERAL FILE INFORMATION				FREQUENCY AND SIZE		TIME REQUIRED		BANDWIDTH IMPACT		
	PROVIDER	PRODUCT GROUP	FILE DESCRIPTION	FORMAT	FREQ. [min]	AVG.SIZE [kB]	SECONDS	MINUTES	DATA RATE [kb/s]	AVG %	TOTAL %
1	NOAA-NESDIS	VIIRS DNB	DNB	NetCDF4	1440	2,170,000.00	1,446.6667	24.11	200.92593	1.67	1.67
2	NOAA-NESDIS	VIIRS I BAND	I5	NetCDF4	1440	8,670,000.00	5,780.0000	96.33	802.77778	6.69	6.69
3	NOAA-NESDIS	BLENDED TPW	Global TPW	HDF-EOS	1440	816,000.00	544.0000	9.07	75.55556	0.63	0.63
4	NOAA-NESDIS	VIIRS AF	Active Fires	NetCDF4	1440	50,000.00	33.3333	0.56	4.62963	0.04	0.04
5	NOAA-NESDIS	GCOM	Imagery	NetCDF4	1440	1,340,000.00	893.3333	14.89	124.07407	1.03	2.16
6	NOAA-NESDIS		Ocean	NetCDF4	1440	600,000.00	400.0000	6.67	55.55556	0.46	
7	NOAA-NESDIS		Precipitation	NetCDF4	1440	290,000.00	193.3333	3.22	26.85185	0.22	
8	NOAA-NESDIS		Sea Ice	NetCDF4	1440	570,000.00	380.0000	6.33	52.77778	0.44	
9	NOAA-NESDIS		Snow	NetCDF4	1440	180,000.00	120.0000	2.00	16.66667	0.14	
10	NOAA-NESDIS		Soil Moisture	NetCDF4	1440	150,000.00	100.0000	1.67	13.88889	0.12	
11	NOAA-NESDIS	MIRS	Sounding	NetCDF4	1440	2,900,000.00	1,933.3333	32.22	268.51852	2.24	2.48
12	NOAA-NESDIS		Imagery	NetCDF4	1440	320,000.00	213.3333	3.56	29.62963	0.25	
13	NOAA-NESDIS	NUCAPS		NetCDF4	1440	2,700,000.00	1,800.0000	30.00	250.00000	2.08	2.08

Note: The product size is estimated on the coverage of North America and South America

Total (%)	15.76

H. Qi informed that GNC-A currently has VIIRS DNB, I5 band and Active Fire products. The others in the list should be added over the coming weeks.

D. Souza informed that new derived products from GOES-16 were added to GNC-A (AMV, cloud products).

K. Caesar confirmed that CIMH is planning to look at these data.

ACTION 3.13: NOAA (N. Donoho) to inform about format and deadline for such a proposal [for regional training activities], to be taken into consideration by the NOAA international training programme.

NOAA received many requests for training; the current plan is to organize 2-3 training events per year (at least one in each Region). Tentative plans are an event in Mexico City in July 23-27, and August 6-10 during the AmeriGEOSS week in Brazil. A training in Barbados in 2019 is foreseen.

The material from the Nov-Dec 2017 training course is now available online:
https://sites.google.com/site/crfpar3/

ACTION 3.14: E. Collini, with assistance from Training Task Team, to complete compilation of training needs by 30 Nov 2017.

The RELAMPAGO project field campaign in Nov-Dec 2018 includes some training activities (Kristen Rasmussen Kristen@atmos.uw.edu).

The compilation is now available in Spanish and English on dropbox:
https://www.dropbox.com/home/SDR%20Training%20needs

In the Caribbean, K.A. Caesar collected feedback by El Salvador, Canada, T&T, Cayman islands, Grenada; now working with countries to match these needs with their training capacities.

Presentations on training activities in RA III-IV should be given and discussed at the 9th meeting of the VLab Management Group (VLMG-9) hosted by CIRA Ft Collins, CO, USA, on 16-20 July 2018. Experiences from the RA-3-4-SDR should be shared with the global community.

RECOMMENDATION 3.1: The Group identified the importance of adding GOES-16 channels 1, 3, 4, 5, 6, 10, 11, 12, 16 to GEONETCast-Americas, complementary to the current 7 channels, on a temporary basis, at least until other data streams become available (GOES-S, JPSS). This will help Members to transition to GRB and other data access means.

H. Qi noted NOAA plans to disseminate JPSS data and GOES-S / -17 data (for validation; 7 CMI bands). D. Souza had received GNC-A user requests for the additional channels. Question came up whether the (sizeable) AMV product could be replaced by individual bands.

RECOMMENDATION 3.2: On a permanent basis, the Group recommended to add Band 10 to the GEONETCast-Americas.

H. Qi suggested whether users could trade Band 10 with Band 8 or 9 since there was no extra space on the GNC-A beam to simply add Band 10. B. Connell remarked that user demand for Band 10 is a function of the application (NWP, aviation).

2. Update on GOES-16 Data Uptake

D. Bradley informed that ECCC transitioned to using GRB for access to ABI L1b data; receiver is from Quorum; use CSPP and pytroll scripts to feed the data to the Regional Forecasting Offices. Issues with data volumes encountered, in view of GOES-S (visualization). They use the PDA for access to L2 products, not yet used in operations.

L. Machado informed that INPE use PDA, GNC-A, and AWS. Purchase of GRB antenna underway. SigmaCast v3 is ready for testing (for Linux and Windows).

B. Thomas: Trinidad&Tobago use INPE server GNC-A, convert data into PNG format using ArcGIS; plans to purchase GRB antenna.

D. Campos use connection with INPE and AWS to receive data. The GRB system is under installation.

W. Abarca: El Salvador is still dependent on GNC-A and internet sources (AWS, McIDAS-V).

J. Chira: Peru is using Geonetcast and is in the process of buying a GRB system.

SMN has a running purchase order for two GNC-A stations and one converted a GRB system.

3. AOB

None raised. Dates of next teleconference to be decided.