

Working Group III Report

Presented to CGMS-50 Plenary
Agenda Item 4: Working Group Reports



Agenda

- Report of WGIII Meeting
- 4th Risk Assessment (2022)
- CGMS Baseline Update
- WGIII Terms of Reference Update



Report of WGIII Meeting (1 of 2)

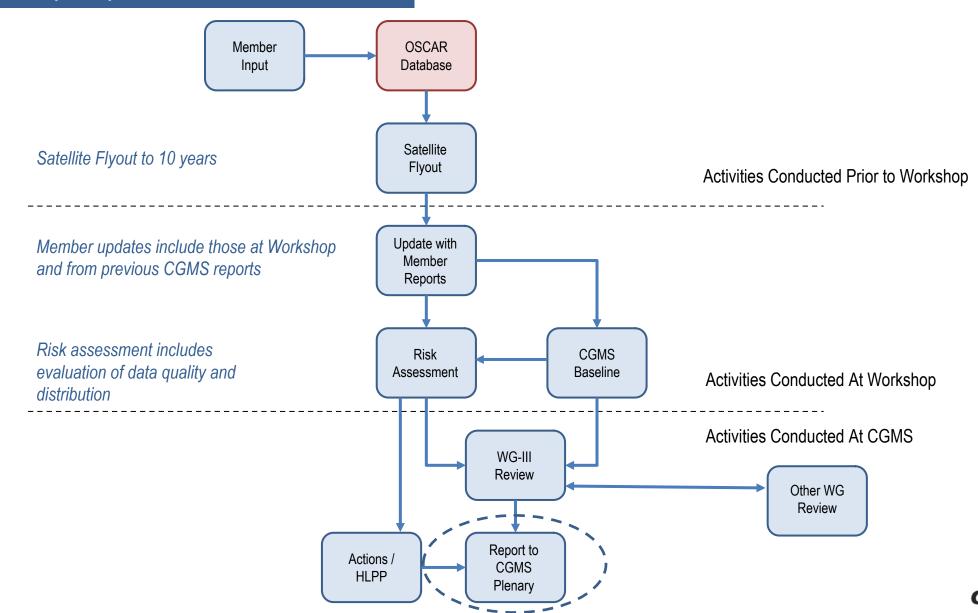
- Update from WMO on Unified Data Policy and establishing core satellite data
 - New Unified Data Policy approved by WMO members; replaces Resolution 40 (weather), 25 (hydrology); and 60 (climate)
 - Covers Earth system data with two main categories of data: core and recommended
 - Specifics in Technical Regulations; WMO will coordinate with Space Agencies for satellite data
- Status of operational and research missions
 - CMA FY-3J is the planned follow-on satellite to FY-3E in the early morning orbit with basically the same instrument suite as FY-3E
 - CMA FY-3I is the planned follow-on to FY-3G to provide precipitation measurements
 - JAXA provided a status on their next-generation precipitation radar project; Mission Definition Review completed with a System Requirements Review planned for June 2022
 - EUMETSAT provided an introduction on a Doppler Wind LIDAR program currently under consideration as a cooperation with ESA
 - NASA provided an update on the TEMPO mission to improve understanding and prediction of air quality
 - ESA provided status on Earth Explorer, Earth Watch and Sentinel program satellites including CIMR &

Report of WGIII Meeting (2 of 2)

- WMO Gap Analysis
 - Covered 16 areas including space weather
 - User requirements generally met or included in HLPP
 - Noted gaps include: polarimetric MW imagery; HEO coverage; frequency range and resolution for MW radiometers for precipitation; and limb sounding for climate monitoring and NWP applications
- Contingency Plan review
 - Contains guidance and a process for identifying, mitigating and coping with risks to the continuity of the CGMS Baseline
 - Plan needs to be updated (e.g., reference document list, commercial data, reflect experience of 4 annual risk assessments)
 - New action to update Contingency Plan at next Risk Assessment Workshop
- WMO OSCAR/Space status
 - Ongoing work to improve OSCAR/Space (e.g., improved gap analysis content, fixing bugs, expected data latency, improved export features
 - WMO continues to establish contacts and update content for non-CGMS



4th Risk Assessment (2022)

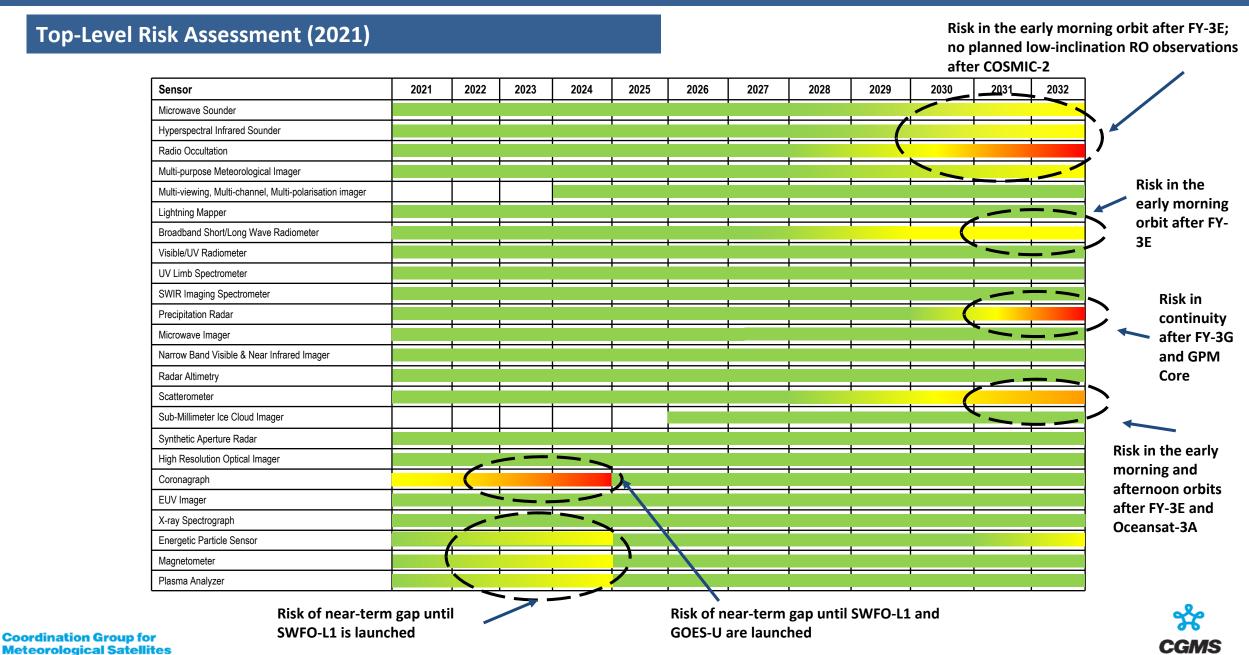


CGMS Risk Assessment Key

- CGMS Risk Assessment uses **Green**, Yellow, and **Red** to graphically represent the overall status of that sensor/observation. The criteria for each colour is as follows:
 - Green: CGMS Baseline met with a low risk of a gap.
 - Yellow: The CGMS Baseline is at moderate risk of not being fully met. Some mitigation by CGMS Members may be required.
 - Red: There is a high risk of not meeting the CGMS Baseline without CGMS Member action
 - No Colour: Observation is not planned to be available until a later date



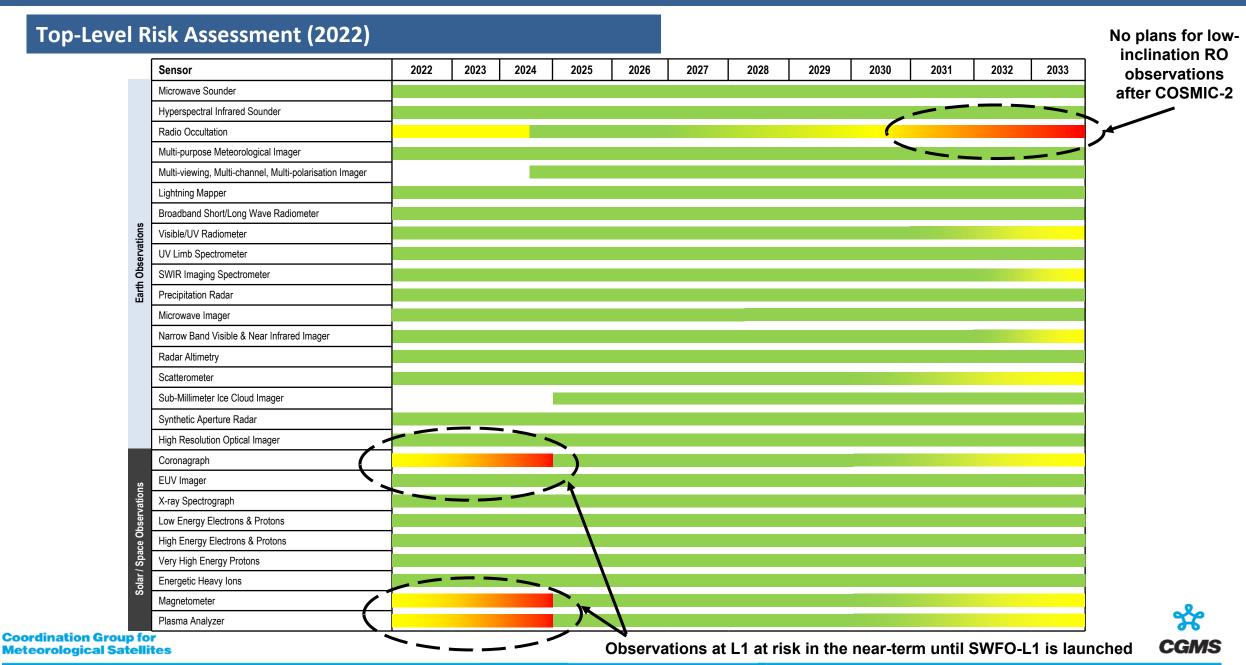




Top-Level Risk Assessment (2022)







Top-Level Risk Assessment (2022) – Recommended and Existing Actions

- Recommended Actions
 - KMA should confirm plans beyond GK-2B for the Visible / UV Spectrometer and Narrow Band Visible Imager
 - NOAA should review additional ground resources needed to track STEREO-A and PUNCH to provide additional coverage in the near-term
- Existing Actions
 - ISRO to confirm plans beyond OceanSat-3
 - NOAA and NASA to confirm plans on accommodation of a radiation budget instrument on JPSS-3 and beyond
 - WGII/III to consider whether observations from geostationary orbit should be added to the CGMS baseline requirements for the broadband short/long wave radiometer
 - WGIV to consider recommended gap mitigation observation requests and develop plans to ensure near real-time access to those data
 - CGMS Members to continue to propose near-term alternative data sources for consideration as gap mitigation in event of loss or degradation of current L1 capabilities prior to SWFO-L1 data availability; WGIV to consider recommended gap mitigation observation requests and develop plans to ensure near real-time access to those data

Coordination Group for Meteorological Satellites

CGMS Baseline and WGIII Terms of Reference Updates

- Papers provided separately (CGMS-50 WGIII-WP-04 and CGMS-50 WGIII-WP-05)
- Key updates being proposed to the Plenary for the CGMS Baseline:
 - Updates to reference documents
 - New text on hosted payloads and commercially sourced data
 - New space weather sensors to capture energetic particle measurements

- Key updates being proposed to the Plenary for the Terms of Reference:
 - Scope of WGIII expanded to include oceans, atmospheric composition and space weather (in addition to weather and climate monitoring)
 - Specific reference to conducting risk assessments and coordinating contingency actions

