

Space Weather Task Team Report to CGMS Plenary

Presented to CGMS-44 Plenary

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Space Weather Task Team Objective

- To define the methodology by which we would implement space weather into CGMS in line with the CGMS Space Weather Activities Terms of Reference:

“The overarching goal of CGMS Space Weather activities is to support the continuity and integration of space-based observing capabilities for operational Space Weather products and services.”



Agenda from SWTT Intersessional Meeting

1. Review of the Terms of Reference for CGMS Space Weather Activities
 - Translate the TOR into specific objectives for the HLPP and define next steps (A43.01)
2. Discussion of context with respect to other space weather initiatives
 - WMO 4-year plan for space weather coordination
 - COSPAR space weather roadmap
 - other efforts
3. Identification of high-level priorities for CGMS Space Weather activities
4. Identification of specific existing or future space missions to be considered for CGMS coordination, in particular for contingency planning
5. Discussion of CGMS SWTT interfacing to operational users of SW data and to the wider space weather community
6. Draft description for the CGMS Website on the Space Weather Task Team (<http://www.cgms-info.org/index.php/cgms/page?cat=ABOUT&page=Space+weather+task+team>)
7. Review/update template for space weather related spacecraft anomalies
8. Discussion of agenda for Space Weather Task Team meeting at CGMS-44, Sunday June 4



Outcomes of SWTT Meetings

- Validated that the current CGMS construct is well-suited to allow implementation of space weather objectives
 - Identified and proposed Space Weather Task Team priorities for High Level Priority Plan (HLPP)
- Determined that engaging CGMS in Space Weather requires communication and integration internally and with various international groups
 - Identified need for buy-in from from leadership and colleagues across the space weather community
 - Propose workshop to engage expert leadership and community



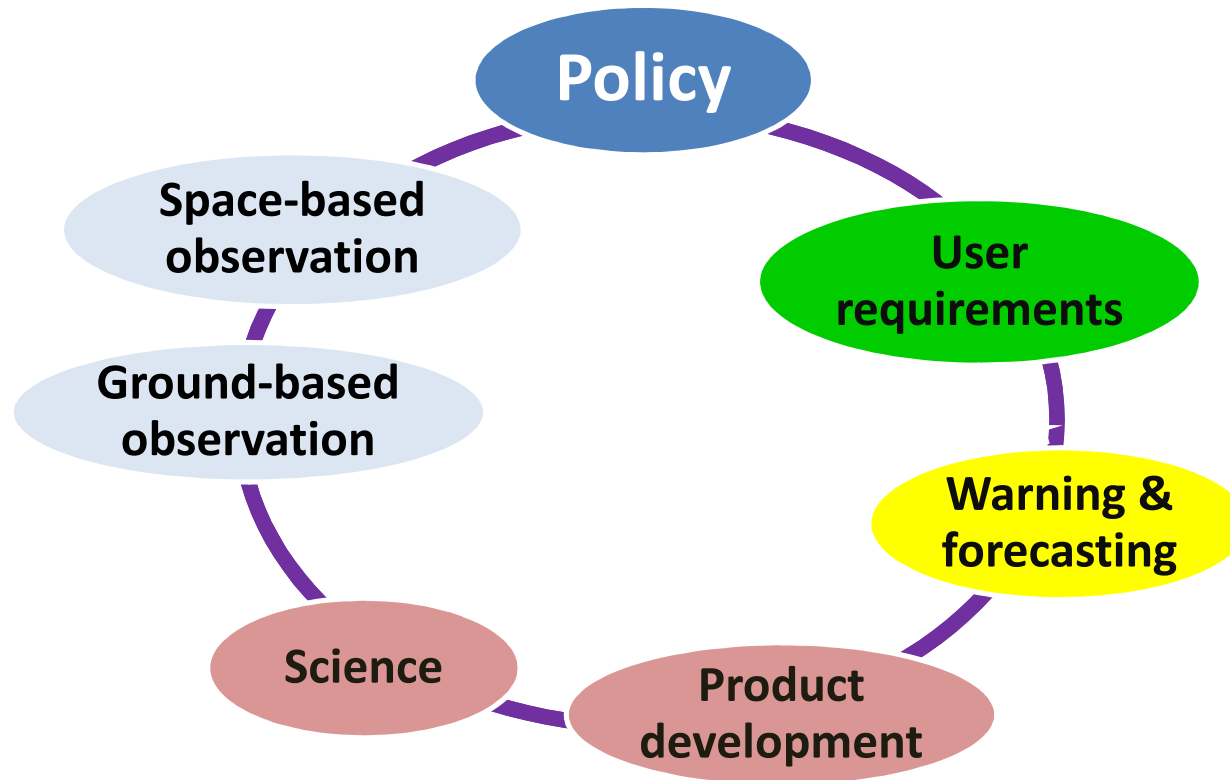
Space Weather Activities Within Current CGMS Framework

- Proposed Space Weather modifications to the HLPP validate that the current CGMS Working Group construct will effectively support the implementation of space weather objectives
 - Addition of seven new tasks to the HLPP
 - Modification of an additional four tasks
 - *Note that this is a different conclusion than that proposed 2 years ago*

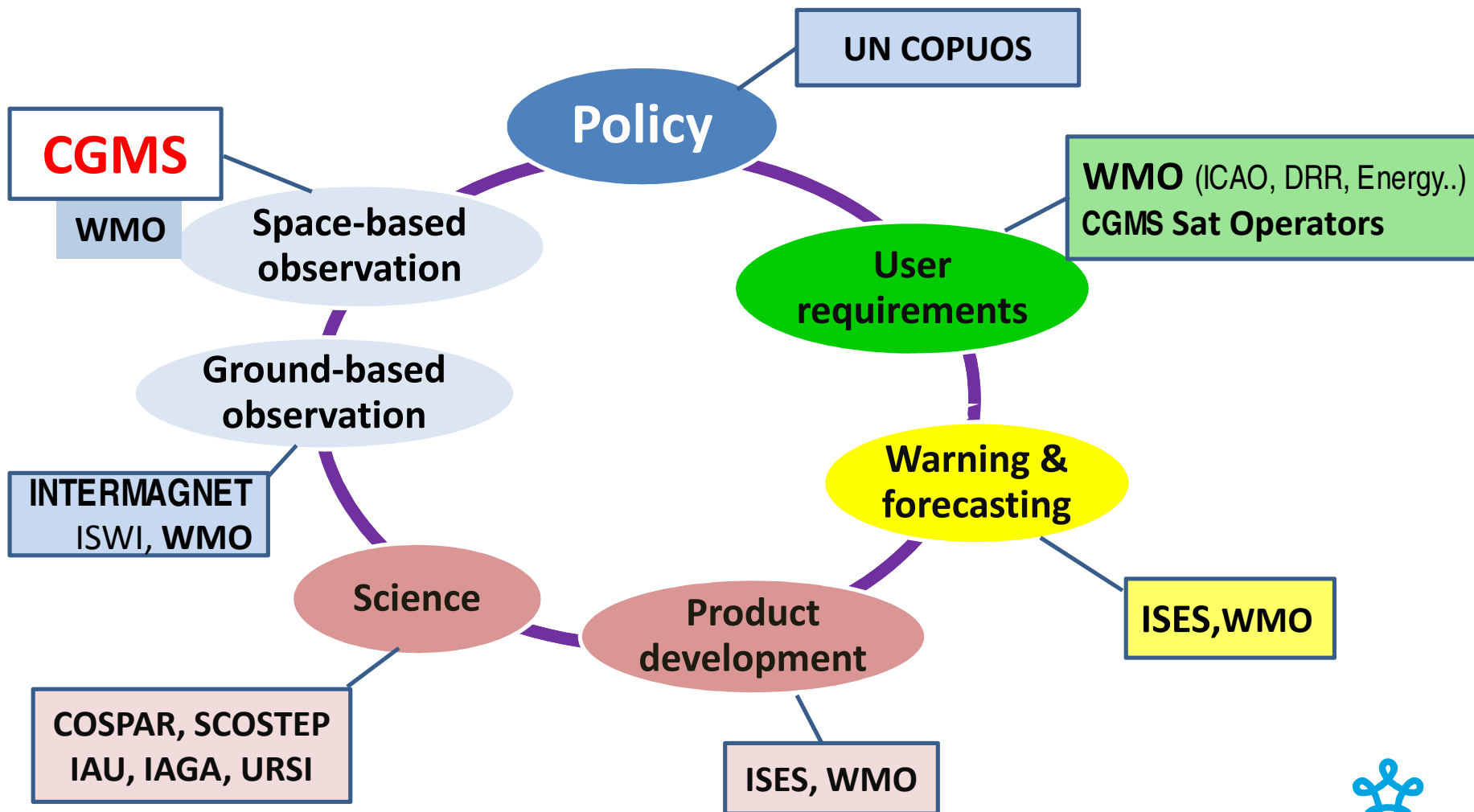
CGMS Space Weather in Context

- Various groups are already dealing with space weather science or space weather operations, but none of these other entities can cover the coordination of space-based space weather observing systems.
- WMO recognizes CGMS as the forum to coordinate space-based observations.
- CGMS would immediately contribute if it enables sustainment of required space weather observation capabilities (as identified in the WMO Vision for 2040).
- Need to establish buy in from leadership of those other entities and colleagues across the space weather community

CGMS fills a necessary role



CGMS fills a necessary role



Recommended next step

- The SWTT recommendation is that SWTT in collaboration with WMO convene an integration meeting
 - With the leaders of the existing space weather international bodies (eg. ISES, ICTSW, COSPAR SW Panel,...)
 - This meeting would include all 4 CGMS WG Leaders
- The goal of the meeting
 - To initiate communication and interaction between CGMS and the space weather community.
 - To communicate the role of CGMS and articulate our CGMS Space weather objectives
 - To solicit community needs for space based space weather observations and discuss coordination function that CGMS could provide to the SpWx Community's benefit
- The outcome of the meeting
 - Determine the next steps required to sustain the interaction, whether through formalizing these meetings, establishing workshops or the establishment of a new thematic group



CGMS could play a unique role

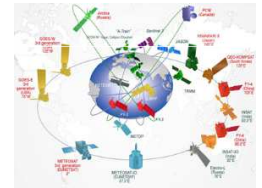
- CGMS recognizes and responds to WMO requirements through a longstanding and successful partnership
- CGMS involves most if not all operators of space weather payloads used in operations
- The needed coordination of observational assets and plans to ensure interoperability and continuity of space weather observations is a unique strength of CGMS
- CGMS can bridge the gap between space weather forecasting and the tailored needs of spacecraft operators
- Decade-long experience of hosting space weather instruments on meteorological space craft
- Experience in GSICS, SCOPE-CM, Vlab, can either expand or inspire similar initiatives for space weather



World Meteorological Organisation



CGMS



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Summary

- Request endorsement from Plenary to embrace HLPP additions to support the goal of inculcating space weather into CGMS.
- Enable and support Space Weather Task Team members to conduct the integration meeting to establish continuing dialog with science and operational user community.
- Recommend continuing the Space Weather Task Team as efforts mature and as coordination with international organizations progress.

