

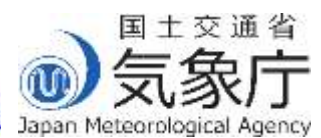


Progress of the CGMS Socio Economic Benefit Activities (Future Direction 2022+)

Japan Meteorological Agency

**Presented to CGMS-53 plenary, agenda item 5
(CGMS-53-WGIII-WP-09)**

Coordination Group for Meteorological Satellites

**CGMS**

Executive summary of the WP

Socio economic benefit (SEB) studies have recently played an important role in convincing stakeholders of the value of the observations provided by satellite programs. These studies offer policymakers/decision-makers a more comprehensive understanding of the implementation of satellite activities (new satellite programs and sustainment of current satellites).

To collect and support the sharing of information on SEB activities implemented by CGMS members, JMA is currently conducting a survey for clarification of SEB case studies and opinions on future activities.

JMA will continue to consider future efforts for contribution to enhanced cooperation between CGMS members and stakeholders.

CGMS Socio Economic Benefit

- Socio-economic benefit (SEB) studies have recently played an important role in convincing stakeholders of the value of the observations provided by satellite programs.
- SEB studies for satellite programs provide policy and decision makers with a comprehensive understanding of the implementation of satellite activities, including future satellite programs and sustainment of current satellites.
- In this activities, the aim is to conduct a comprehensive SEB survey of satellite systems, to help stakeholders understand the importance of CGMS activities and to provide information to assist the activities of all CGMS agencies.

Progress of the SEB activities

- In order to collect and share the SEB activities already implemented by CGMS members, JMA is currently circulating a questionnaire survey among CGMS members, thanks to the CGMS secretariat.
- Through this survey, we hope to understand the current status of SEB case studies and gather opinions on the direction of future SEB activities.
- Responses have so far been received from EUMETSAT, NOAA, NASA, JAXA and JMA itself. The overview of the responses would be presented in following slides.
- Mr. ONO Hiroshi is acting on behalf of Mr. SUMIDA Yasuhiko, the champion of this activities, due to his transfer to other division.

Survey: Socio Economic Benefit (SEB) analysis

Survey: Socio-Economic Benefit (SEB) activities

The CGMS-51 planetary directed Working Group (W) to undertake several activities regarding Socio-Economic Benefit (SEB). This directive arose from the work of the CGMS future direction 2022+ Task Team and a recognition among members of the need to persuade stakeholders of the value of the observations provided by satellite programs.

Our first step is to survey each agency's SEB activity. We ask that each CGMS member agency takes a few moments to complete this survey by 31 March 2025. In case of any questions on the survey, please contact the team championing this activities: samuel@meteo.kishou.go.jp, masaru@meteo.kishou.go.jp or to cgms@meteo.kishou.go.jp

* Required

1. Agency *

Enter your answer

2. Name *

Enter your answer

3. E-mail address *

Enter your answer

4. Question 1: Have you ever conducted SEB surveys of meteorological satellite systems or operations?

☐ Yes

☐ No

Next

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- Survey items (Microsoft Forms format)
 - ✓ SEB studies of meteorological satellite systems or operation already conducted. (Title, Overviews, Survey bodies, Results and Use of results)
 - ✓ Planed SEB studies of meteorological satellite systems or operation in future. (Plan, Overviews, Survey bodies, Purpose)
 - ✓ Expectations or points of interest for future SEB survey of meteorological satellite systems around the world by CGMS.

The overviews of the responses (from 5 members in total)

- EUMETSAT and NOAA have conducted SEB surveys of meteorological satellite systems.
 - EUMETSAT – 2 cases for LEO (EPS-METOP and EPS-AEOLUS & EPS-STERNA)
 - NOAA - 1 case for GEO (GeoXO), 1 case for LEO (EPS-STERNA),
2 cases for Space Weather Service, 1 case for Ocean Color Data.
- All 5 members show an expectation and interest for future socioeconomic benefit analyses of meteorological satellites around the world by CGMS Members.

Initiative – Socioeconomic Benefit



There are a number of major initiatives resulting from CGMS

Global satellite inter-calibration (GSICS)	WMO-CGMS Virtual Laboratory for Training and Education in Satellite Meteorology (VLab)
Architecture for climate and emission monitoring from space	Space weather
Socioeconomic benefits	Private sector engagement
Hybrid space infrastructure	



- The CGMS secretariat have a webpage on CGMS initiatives;
<https://cgms-info.org/initiatives/>
- SEB activity is featured as one of initiatives.

Future Work

- Referring to the survey results, we will continue to consider future efforts for contribution to enhanced cooperation between CGMS members and stakeholders.
- With the cooperation of WMO, we would like to develop a new study on the SEB value of the space-based observing system responding to WIGOS 2040.

Key issues of relevance to CGMS:

- Reference to HLPP
 - 1.4.2 Collect and make available to CGMS members SEB case studies of relevant satellite systems for the purpose of identifying common practices in the next phase.
 - 1.4.3 Explore with WMO and other agencies the possibility to develop a study on the SEB value of the space-based observing system responding to WIGOS 2040 in cooperation with CGMS, and to trigger collaboration with CGMS members;