GP-STAR

WMO Perspectives

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and
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Please provide input to the following question:

What is the mission of GP-STAR in your view?

- Assist in the EO processes required for DRR and particularly, contribute to the risk analysis, hazard monitoring and recovery phases of MHEWS.
Please provide input to the following question:

- What activities, projects, programmes can you affiliate/contribute to GP-STAR?

- What outcomes (procedures, products, information, knowledge, know-how) can you contribute
WMO Space Programme: 4 Activity Areas
supporting weather, water, climate, and space weather

Observations
- Coordinate satellite observing systems, orbits, instruments, for WIGOS
- Develop the Architecture for Climate Monitoring from Space

Set standards on quality and consistency of satellite-based products

Products
- WIGOS GFCS

Training & Awareness
- Promote readiness of Members to new generation satellites (2015-2020)
- Maintain resources and regional projects; provide advice and guidance

Data Dissemination & Access
- Coordinate rapid, integrated global dissemination of satellite data, consistent with WIS
WMO Space Programme:

• Identifies observation requirements of users in WMO Application Areas

• Performs gap analyses and maintains a dialogue with space agencies on these

• Partners with space agencies in
  – Coordination Group for Meteorological Satellites (CGMS)
  – Committee on Earth Observation Satellites (CEOS)
WMO Observing System Capability Analysis and Review tool (OSCAR)

• WMO-maintained online resource with 3 components:
  – satellite programmes, instruments, and the variables they can observe (OSCAR/Space)
  – surface-based stations/platforms under WIGOS (OSCAR/Surface)
  – observation requirements for 14 “application areas” and for all relevant variables (OSCAR/Requirements)

• WIGOS Information Resource
• Basis for WMO Rolling Review of Requirements
Space-based Capabilities: OSCAR/Space Database

1. Factual information on satellites and instruments ("capabilities")
   - 81 agencies
   - 673 satellites
   - 927 instruments
   - Weather and climate
   - Environmental monitoring
   - Space weather

2. Assessment of instruments, and gap analyses ("analysis and review")
   - Mapping instruments to measured variables
   - "Gap analysis" by measured variable, or by type of mission
OSCAR/Space Part 1: Factual information content

- Name, purpose
- Mass, power
- Orbit (type, alt, ECT, longitude)
- Launch date, end date, status
- Data access, telecom frequencies

Agency

Programme

Satellite

Payload status

Instruments

- Instrument status, dates
- Link to calibration events

- Name, purpose
- Mass, power
- Type, description, scan mode
- Resolution, FOV, coverage
- Status
- Spectral characteristics
WMO Operational Networks – end to end

NMHSs deliver analyses, forecast and early warning services

The GDPFS:
Global, Regional Specialized Met. Centres (RSMC, RCC), and National Centres

191 NMHSs: satellites, land, ships, buoys, and aircraft contribute to Global Observing every day

Global Telecom with Regional Hubs – becoming the WMO Information System

NMHSs deliver analyses, forecast and early warning services
What role and working field in GP-STAR do you foresee for your organisation

• Leveraging off our current roles within the DRR community, provide GP-STAR with operational knowledge and expertise to provide an understanding of a user requirement for spaced based observations for DRR purposes
Please mark (x) your contribution/interest according to below matrix,
see: Input_partners_GP-STAR_Expert_meeting.xls

<table>
<thead>
<tr>
<th>TARGETS - INDICATORS</th>
<th>PRIORITIES FOR ACTION</th>
<th>COUNTRY / REGION</th>
<th>HAZARD</th>
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<tbody>
<tr>
<td></td>
<td></td>
<td>Earthquake</td>
<td>Tsunami</td>
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<td></td>
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<td>Mass movement</td>
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<td>Fire</td>
<td>locust swarms</td>
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<td>Non-Earth Objects</td>
<td>Space weather</td>
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</tbody>
</table>

The present framework will apply to the risk of small-scale and large-scale, frequent and infrequent, sudden and slow-onset disasters, caused by natural or manmade hazards, as well as related environmental, technological and biological hazards and risks. It aims to guide the multi-hazard management of disaster risk in development at all levels as well as within and across all sectors.
Thank you for your attention

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References

- OSCAR/Space: http://oscar.wmo.int/space
- OSCAR/Surface: http://oscar.wmo.int/surface
- OSCAR/Requirements: https://www.wmo-sat.info/oscar/observingrequirements
- WMO Space Programme: http://www.wmo.int/sat
- WMO Vision for the Global Observing System in 2025