

WMO CGMS 50

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UN Office for Disaster Risk Reduction



SENDAI FRAMEWORK

FOR DISASTER RISK REDUCTION 2015-2030

Satellite Data & DRR

- Satellite-derived information plays an important role in all phases of disaster management
- Data can play an important role in improving impact-based forecasting and anticipatory action (Priority 4 of the Sendai Framework)
- It can also support efforts to better understand risk and inform risk-sensitive development planning (Priority 1 of the Sendai Framework)

Societal/ Humanitarian/ Climate Change/ Risk & Disaster Dimensions

- Advances in the possibilities for using EO resources to understand social effects of disasters
- Nuanced analysis of highly localized processes due to the increasing granularity of images (e.g. illegal deforestation, EW, etc.)
- More detailed assessment of processes that change quickly due to the higher frequency of updates (e.g. humanitarian settlement patterns, fertilizer runoff into river deltas)

Challenges

- Tendency to measure what we value (buildings, farms, humans)
- Missed chances to identify changes to ecosystems, social systems and existing connections (access to nutrition or cultural practices)
- Availability of and access to data
- Capacity of actors mandated to manage risk to access data or lacking the technical capacity to do so

Recommendations

- Adopt free and open data policy for Earth Observation data
- Embrace open-source software, standards and data, where possible
- Invest in training, capacity development, and the inclusion of stakeholders
- Be mindful of important considerations related to data ethics and protection

Thank you

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