

UN-SPIDER

Confronting hydrometeorological hazards exacerbated by climate change: Perspectives from the Disaster Management Community.

United Nations Office for Outer Space Affairs
United Nations Office at Vienna
www.unoosa.org

Examples of hydrometeorological hazards exacerbated by climate change











Identifying User Needs: the UN-SPIDER approach

- Via Technical Advisory Missions to developing countries, visiting many government agencies and other institutions;
- Frequent communications with National Focal Points;
- During training activities
- During discussion sessions carried out as part of International Conferences and Expert Meetings.









User Needs: findings

- While disaster management agencies may have specific needs, other ministries and government agencies may have different needs;
- User needs vary among national disaster management agencies of different countries depending on the existing institutional capacity to generate or use space-based information;
- In some countries, there may be a national space agency that is already supporting the national disaster management agency.

Responding to climate change

- Climate change is indeed introducing challenges in many countries of the world, but only few new hazards (sea level rise) may affect some hazards such as storm surges.
 - Floods, droughts, forest fires, heat waves, severe weather, hurricanes, tropical storms, winter storms, tornadoes, typhoons, cyclones and landslides already exist, but climate change may increase their frequency or magnitude.

User Needs

- Raising awareness regarding what novel sources of satellite imagery, products or services are available to address the challenges posed by natural hazards and climate change;
- Training courses on the use of such satellite imagery, products or services;
- Information on type of software that can be used to process specific types of satellite imagery;
- Access to specific types of satellite imagery which are not freely available (high resolution for example).

Responding to user needs

- Introducing national disaster management agencies to new products, services and applications developed by the space community;
- Developing solutions such as the UN-SPIDER Recommended Practices;
- Capacity building efforts, training courses and advisory support.



THANK YOU

United Nations Office for Outer Space Affairs
United Nations Office at Vienna

www.unoosa.org
@unoosa

Juan Carlos Villagran de Leon UN-SPIDER Programme Juan-carlos.villagran@un.org