

**CEOS Thematic Pilots**  
Q2 2017-Q3 2017 CEOS Landslide Pilot report

<b>Seismic Pilot/ Objective A, B and C</b>		
April 2017 – September 2017	PI or PoC: Dalia Kirschbaum (NASA), Sigrid Roessner (GFZ), Jean-Philippe Malet (U. of Strasbourg), Jonathan Godt (USGS)	Collaborating organisations: <u>CEOS partner agencies</u> : ESA, NASA, ASI, CNES, DLR, JAXA <u>Other partners</u> : ISRO, CNR IRPI, NRCAN, CAS, UNESCO, Academia, CEA IPGP, INGV, ISTERRE, INFN, ICIMOD, Washington DNR, DOGAMI
<b>Achievements:</b> <ul style="list-style-type: none"> <li>Confirmed data request plans, submitted licensing agreements and submitted data requests for relevant sensors over the two main study regions: Nepal and the Pacific Northwest, U.S.</li> <li>Conducted 1 in person meeting at EGU in April, 2017 and have had numerous virtual meetings to ensure alignment of data requests between regions</li> <li>The POCs of this pilot are engaging with the GEP to determine how the pilot could leverage this capability.</li> </ul>		
<b>Activities over Q2-Q3:</b> <ul style="list-style-type: none"> <li>Coordination of activities in Nepal and the Pacific Northwest remained a main focus of the efforts for this period. We have summarized several of the existing efforts and presented them at the CEOS WG on Disasters Meeting as well as shared them with the Landslide pilot team</li> </ul>		
<b>Data accessed over this period</b> <ul style="list-style-type: none"> <li>Working on requesting data</li> </ul>	<b>Total data accessed to date (#images /satellite)</b> Working to receive data for Nepal and Pacific Northwest from: <ul style="list-style-type: none"> <li>Pléiades</li> <li>SPOT</li> <li>Radarsat-2</li> <li>TerraSAR-X</li> </ul>	
<b>Products:</b> <ol style="list-style-type: none"> <li>Global landslide model was developed to support situational awareness for landslide events:</li> </ol>	<b>User (by product):</b> Model outputs were used by several groups (FEMA, U.S. National Guard, U.S. Army Corp, Mexican Response Agency CENEPRED)	<b>User or practitioner endorsement/opinion/outcomes</b> Improved situational awareness of potential landslide areas associated with Hurricanes Irma and Maria and the Mexican Earthquake
List any publications directly stemming from pilot work: <ul style="list-style-type: none"> <li></li> </ul>		
List objective milestones and state progress to date (%): <p>Objective A: <b>Establish effective practices</b> for merging different Earth Observation data (e.g. optical and radar) to better monitor and map landslide activity over time and space.</p> <ul style="list-style-type: none"> <li>Developing data requests now to conduct study sites for multiple groups to</li> </ul>		

contribute

Objective B: Demonstrate how landslide products, models, and services can **support disaster risk management** for multi-hazard and cascading landslide events.

- Identifying several studies that are characterizing cascading landslide hazards

Objective C: **Engage and partner with data brokers and end users** to understand requirements and user expectations and get feedback through the activities described in objectives 1-2.

- Working with stakeholder groups including UNESCO, Washington DNR and DOGAMI to better understand how developed products could be used

Issues identified and risk management approach

- Most pilot users are not experts in SAR, therefore, they are more interested in derived products or optical product applications
- Data licensing plans have mostly been finalized and we are waiting to obtain data from the space agencies for the two main pilot regions.