



### UNOOSA/UN-SPIDER

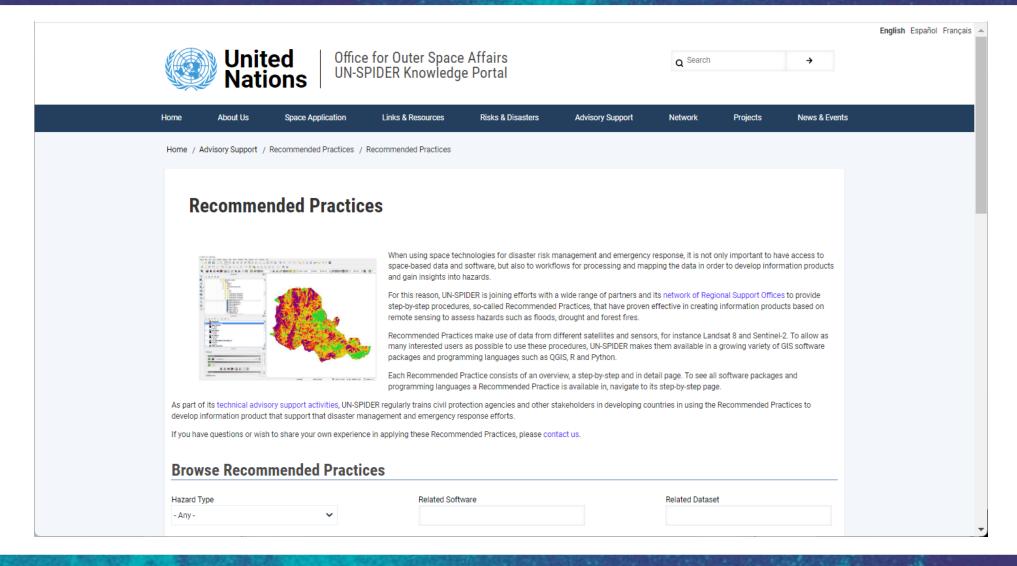
Knowledge Sharing and and Improving Access to Emergency Response Mechanisms

December 2022

### Access to Knowledge

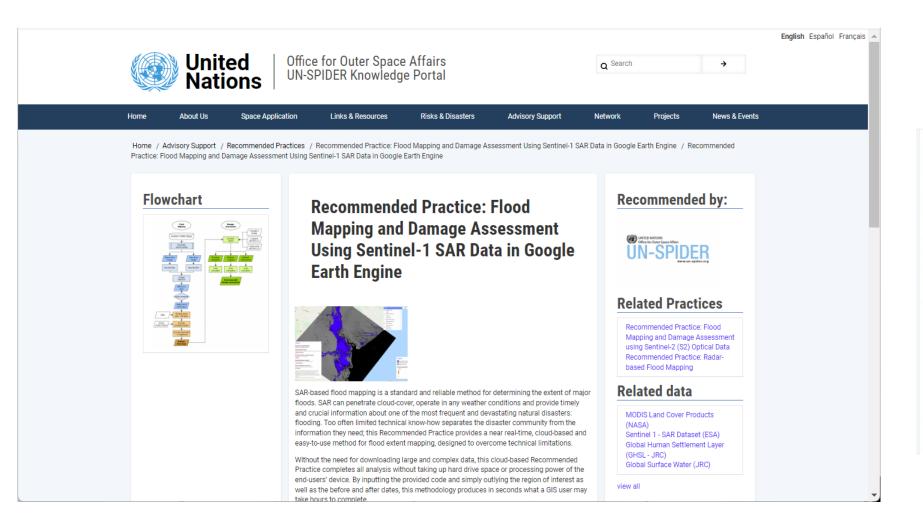


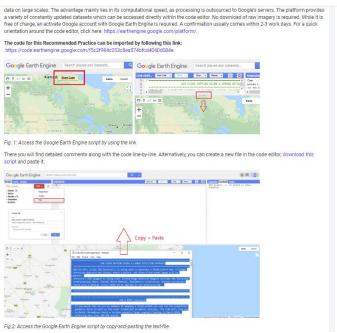






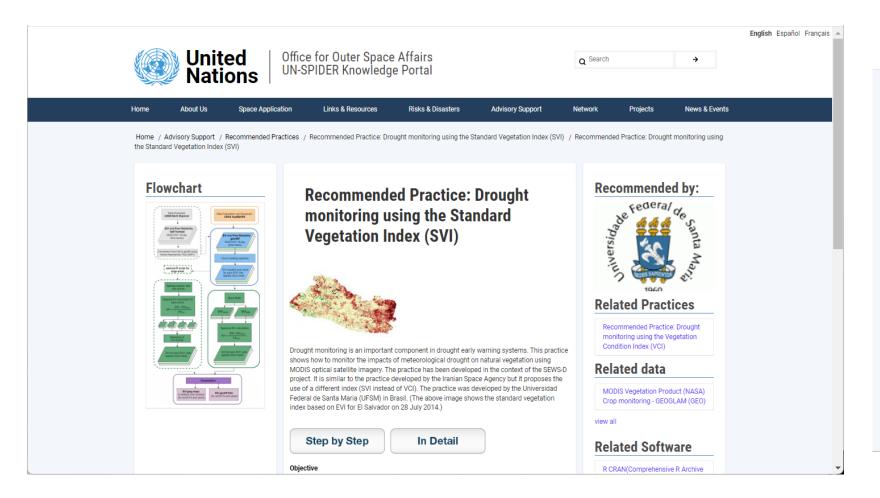


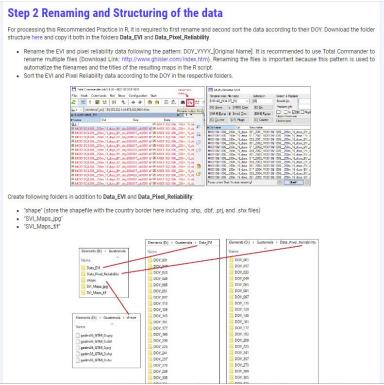






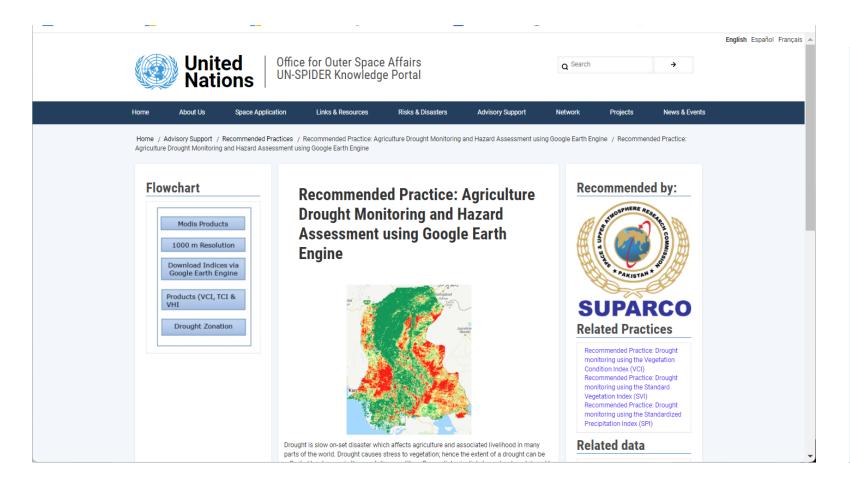


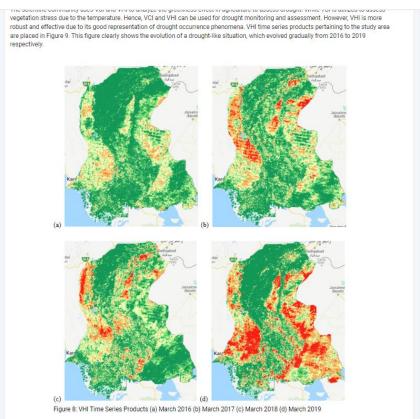










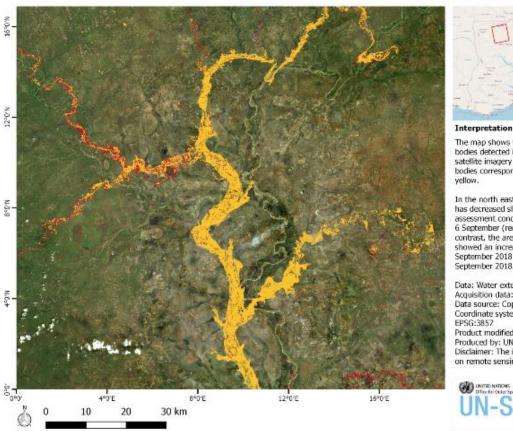






#### flood mapping in Ghana

#### Identification of inland water bodies Ghana





The map shows the increase in the extent of water bodies detected in the White Volta river using radar satellite imagery in Northern Ghana. The extent of water bodies corresponding to 12 September 2018 is shown in

In the north east, close to Yagaba, the extent of water has decreased slightly in comparison to the previous assessment conducted with the radar satellite imagery of 6 September (red) and 25 August 2018 (dark violet), In contrast, the area of the river near Disiga and Pigu showed an increase in the extent of water by 12 September 2018 compared with 25 August and 6 September 2018.

Data: Water extents from Sentinel 1 Acquisition data: 25 Aug 2018, 6 Sep 2018, 12 Sep 2018 Data source: Copernicus

Coordinate system: WGS 84/ Pseudo Mercator

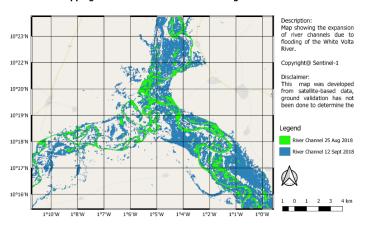
Product modified on: 17 Sep 2018

Produced by: UN-SPIDER

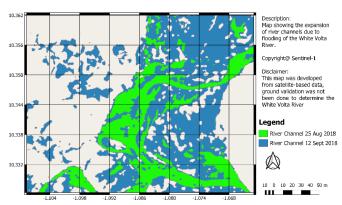
Disclaimer: The information presented is entirely based on remote sensing data derived without field validation.



#### Radar mapping of White Volta before and during floods 2018

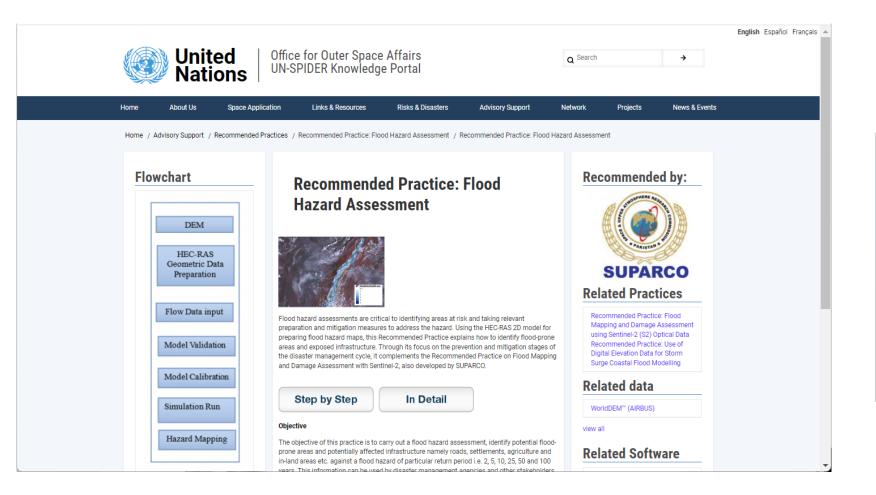


#### Radar mapping of White Volta before and during floods 2018

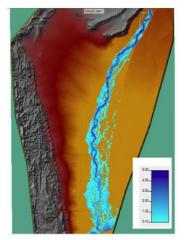






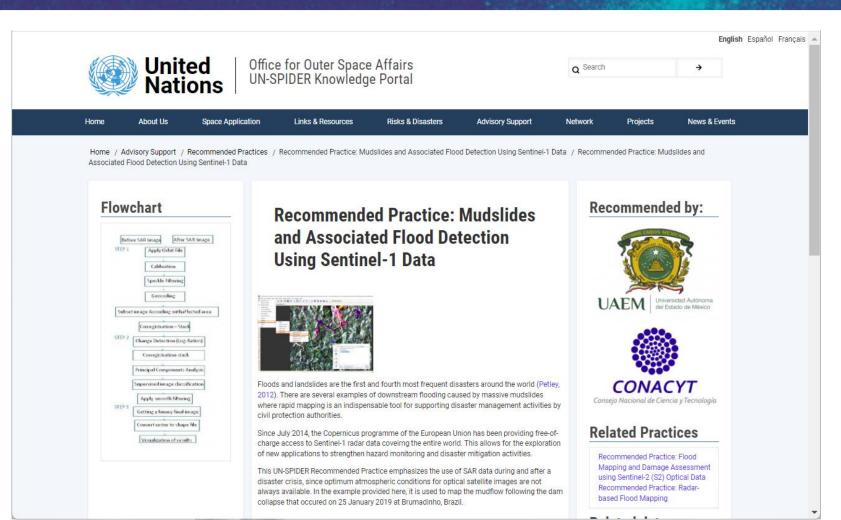


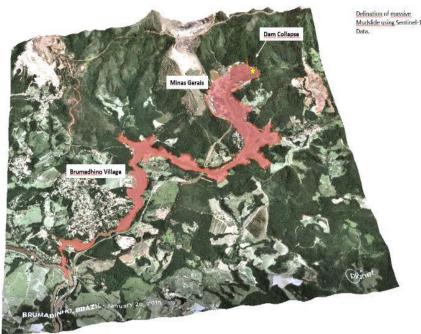
31. Simulation results can be viewed in RAS Mapper Window. Flood model main outputs include Depth, Velocity and WSE. Flood model simulated depth, velocity and WSE for known Flood2010 event is shown below (Figure 19-21)











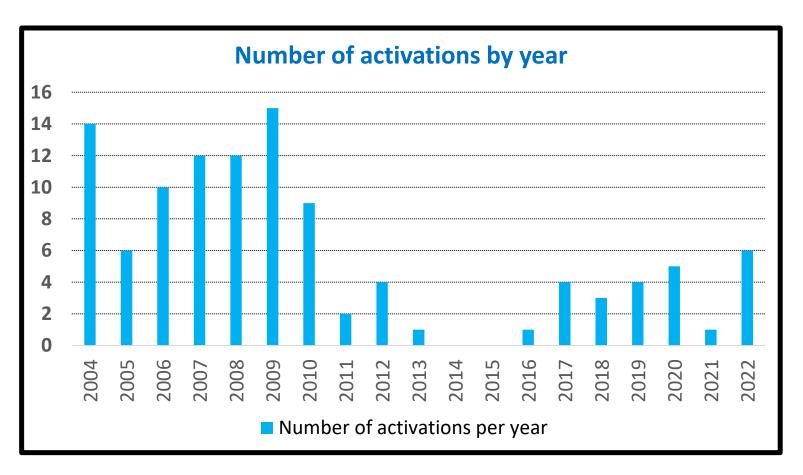
Brumadinho mining dam collapse in Brazil, using Sentinel 1 radar imagery





#### Requests for activation of the International Charter

Between 2003 and 2022, UNOOSA and its UN-SPIDER programme sent 113 requests for activation to the Charter (nearly 15% of all activations of the Charter up to Sept. 2022).







### **UNOOSA** as a Cooperating Body

- UNOOSA's 113 requests for activation of the International Charter were at the request of UN agencies, national disaster management agencies and in selected cases, ministries of environment. In addition, it has supported other activations
- UNOOSA through UN-SPIDER has constantly raised awareness about the International Charter in a variety of ways (International conferences, expert meetings, publications, UN-SPIDER Knowledge Portal, Technical Advisory Missions to developing countries)
- UN-SPIDER has actively promoted the International Charter with the disaster management community and has carried out efforts to engage national disaster management agencies of countries in Asia, Asia Pacific, Africa, Latin America and the Caribbean as users
- More than 20 national disaster management agencies have submitted official requests to be incorporated as Charter Authorised Users as a result of UN-SPIDER efforts

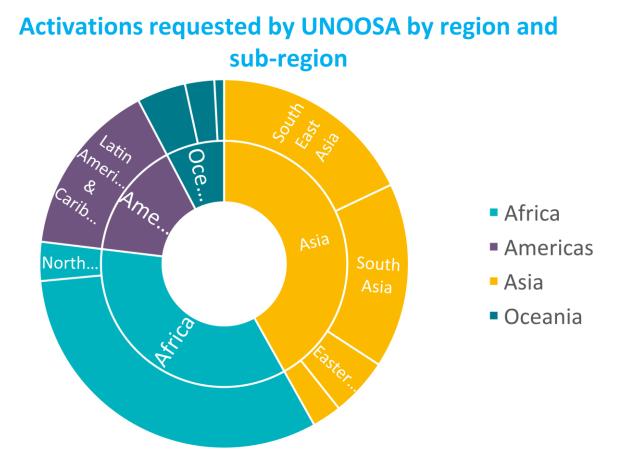
www.un-spider.org 9 December 2022





 The activations addressed disasters of different types affecting around 60 developing countries in Asia, Asia Pacific, Africa, Latin America and the Caribbean.

Region	Activations
Africa	37
Americas	18
Asia	49
Oceania	9
Total	113







#### Facilitating admission of national disaster management agencies as **Authorised Users**

#### Contribution to the Charter Universal **Access initiative:**

- Since 2014, UN-SPIDER has been encouraging National Disaster Management Agencies (NDMAs) to request Authorised User status with the International Charter
- The over 20 NDMAs admitted as Authorised Users are from Asia, Africa, Latin America and the Caribbean

Efforts to engage NDMAs in Asia and Asia Pacific as Authorised Users					
COUNTRY	STARTED PROMOTING EFFORTS	INCORPORATION AS AU			
Myanmar	2017	2017			
Vietnam	2017	in process			
Samoa	2019	in process			
Salomon Islands	2019	in process			
Mongolia	2020	in process			
Armenia	2022	in process			
Philippines	2022	In process			





### Facilitating admission of national disaster management agencies as **Authorised Users**

#### Efforts to engage African NDMAs as Authorised llcers

O3E13					
	COUNTRY	STARTED PROMOTING EFFORTS	INCORPORATION AS A. U.		
	South Africa	2018	2021		
	Ghana	2018	2019		
	Zimbabwe	2018	in process		
	Cameroon	2019	2020		
	Ethiopia	2019	2020		
	Tanzania	2019	2020		
	Gambia	2020	2021		
	Mozambique	2020	in process		
	Niger	2020	2021		

#### **Efforts to engage Latin American and Caribbean NDMAs as Authorised Users**

COUNTRY	STARTED PROMOTING	INCORPORATION
	<b>EFFORTS</b>	AS A. U.
Colombia	2013	2014?
Dominican Republic	2014	2015
El Salvador	2015	2015
Guatemala	2015	2016
Honduras	2015	2022
Uruguay	2016	2016
Ecuador	2016	2017?
Costa Rica	2017	2020
Haiti	2017	2019?
Mexico	2020	2021
Cayman Islands	2020	2020
Nicaragua	2021	2022
Panama	2021	2022





#### Recent activities carried out with the Charter and some of its members

- Joint UN-SPIDER/Charter/CEPREDENAC Training for project managers of Mexico, Central America and Dominican Republic (Guatemala, Dec, 2021)
- Simulation of activation of the Charter for a hypothetical earthquake in Guatemala (Feb. 2022)
- Joint UN-SPIDER/Charter/NASRDA virtual training on the use of the Charter Mapper (Sept 2022)
- Simulation of activation of the Charter for hypothetical very large floods in Nigeria at NASRDA/UN-SPIDER workshop in Abuja (Nigeria, Sept 2022)





## Thank you

czaran@un.org

@un\_spider facebook.com/unspider

www.un-spider.org 9 December 2022