

#### ACTIVITIES OF THE UNSPIDER REGIONAL SUPPORT OFFICE IN NIGERIA

### **Dr. Godstime James**

National Space Research & Development Agency (NASRDA), Airport Road, Abuja, Nigeria

10<sup>th</sup> Annual UN-SPIDER RSO Coordinating Meeting 4-5 November 2020 13:00-15:00 Virtual Meeting



National Space Research and Development Agency



- > The RSO Participated in the following activities:
  - 2019 Annual UN-SPIDER Regional Support Offices Coordination Meeting in Vienna, Austria, 18-19 June 2019.
  - UNSPIDER Institutional Strengthening Mission to Cameroon from 15<sup>th</sup> to 19<sup>th</sup> July 2019.
  - United Nations International Conference on Space-based Technologies for Disaster Risk Reduction - "A Policy Perspective" and Commemoration of 10 Years of UN-SPIDER Beijing Office Beijing, China, 11-12 September 2019









#### **2020** Activities

#### Nigeria COVID 19 Dash Board





- The RSO was involved in series of virtual meetings organized by UNSPIDER Bonn Office.
  - UN-SPIDER Virtual International Expert Meeting "Space-based Solutions for Risk and Disaster Management in Africa" 30 June - 02 July 2020 - Bonn, Germany
  - Capacity Building on the use of Recommended Practice for floods mapping using the Google Earth Engine cloud-based infrastructure.
- Flood mapping in Nigeria (Joint activity between Bonn Office and RSO) to support the National Emergency Management Agency flood response in Nigeria.





Nigeria experienced cross-border flooding in 2020, given it is downstream along the Niger River basin.







#### Value Addition for Call 779, Niger Floods: International Charter: Space and Major Disasters. September-October 2020



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Niger's western region has experienced flood events due to the River Niger overrunning its bank after days of torrential rainfall. This year's event has been catastrophic.

From the analysis, the flood extent covers about 1365 hectares of the landmass and it is estimated that 2,694 people were exposed to the flood in Tenda town as of 4<sup>th</sup> October 2020.

The flood map represents the flood extent as at the above date.

#### DATA SOURCES

- ♦ Sentinel-1 SAR GRD (2020)- Acquired on the 4th October 2020 at 17:55 pm, provided by European Space Agency.
- \* Kompsat-3 Acquired 27th September 2020 at 13:04 pm provided by KARI.
- Google Earth Engine Script produced by UNSPIDER, 2019.
- \* Population data (GHSL) provided by European Commission, Joint Research Centre (JRC); Columbia University, Center for International Earth Science Information Network - CIESIN (2015).

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Flood Extent







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### 2021 Activities

> Drought Monitoring using the drought recommended practice.

- Capacity Building for the National Emergency Management Agency on the use of dynamic maps for disaster management.
- Flood monitoring in West Africa using the recommended practice.
- Contribute to Sendai Framework disaster risk reduction programme through support to the implementation of reporting framework.
- Update of the database for UNSPIDER Country Profiles.



# Thank You

