

Early warning systems (GEO and WMO)

Aguasan e-workshop on data for water disaster risk reduction

ADVISORY SERVICES JUL 07, 2023 06:32AM UTC

Questions & comments on presentation

Technology geogloss - Look at water quality from the satellites

Early warning system - data base on the satellite - is there any data base on the area ?

most of the models are good - does it cover african countries?

fields of application: context of the middle east - Jordan - lake recently been flooded
- better use of the surplus and be better prepared to store the water

with projects like these, how would an organisation access the data needed ?

early warning system for droughts - what are the competitors and are there any collaborations to make it better?

Opportunities to use the tools

Satelite

Communities outside are using the satellite to analyse the imagery - forecasting in driving the amount of Water, for example in Atitlan and Santa Catalina, Brasil - aquaculture to drive a hydro dynamic model

Foundational information for all the applications

Central Asia information

they are working with primary stakeholders that provide and share the data

central asian countries are not covered yet
they will look into it

Switzerland is looking into it - University of Zurich - they will provide good information

all the data for GEO GLOWS is open
everyone can go and access their forecast - freely available

WMO - la plata basin WHOS - connect the WHOS data for validation world wide

all the data on WHOS is openly accessible - there is a terms of use, but all the data is available and for use
- this data is becoming interoperatable and it is easy to use it in different tools - GEO DC Center

Contexts where such tools are useful

Guatemala - Atitlán

Guatemala: <https://science.msfc.nasa.gov/2022/10/30/algal-bloom-prediction-service-uses-geogloss-streamflow-data-to-trigger-action-in-guatemala/>

Brazil - Santa Catalina

Brasil: Aquaculture

<https://ciram.epagri.sc.gov.br/index.php/2023/01/25/epagri-lanca-primeira-versao-do-modelo-operacional-da-costa-de-santa-catarina/>

Malawi - GEOGLOWS

take the forecast and use it on the rivers

there is an application for disaster organisation on the country - analyses the damages and the losses

https://earthobservations.org/geo_blog_obs.php?id=546

there will be more on more African countries

Hydrological data in African countries

Israel also has an application: https://www.youtube.com/watch?v=j_UxUk6z7aQ

basis meta data - essential meta data is needed, but there are several ongoing projects on west africa who are implementing this

Integration of GEOGLoWS-ECMWF Streamflow Forecasting into the Community-Based Flood Early Warning System (CBFEWS): flood warning information in Malawi.



By Calvince Wara, Felix Kasiti, Anastasia Wahome, Ted Nyekanyeka, Fedson Chikuse, Robinson Mugo, Phoebe Oduor, Angelica Gutierrez, and Sara Vent

GEO OBSERVATIONS BLOG

