





United Nations/Germany International Conference International Cooperation Towards Low-Emission and Resilient Societies

Strengthening Early Warning Systems for Droughts (SEWS-D)

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Human impact by disaster types (2015 versus average 2005-2014)



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http://www.emdat.be/publications

Focusing Efforts on Drought Early Warning in Central América

Central American countries have been experiencing more frequent and intense droughts (1997/1998; 2000/2001; 2009/2010; 2014/2015).

El Niño events worsen droughts, but not all droughts behave the same way when there is an El Niño event.



Strengthening Early Warning Systems for Droughts (SEWS-D)

The SEWS-D project aims to:

Contribute to the implementation of the Sendai framework on disaster risk reduction;

Strengthen national drought policies;

Incorporate the routine use of drought indices such as the Vegetation Condition Index and the Standard Vegetation Index;

Encourage the use of geospatial technologies.



Phases of the SEWS-D Project

Development and validation of the step-by-step procedures (Recommended Practices) to generate and the VCI and the SVI on a permanent basis, including the ASIS-Country version of FAO.



Vegetation Condition Index Julian day 145 - 2014



Standard Vegetation Index Julian day 145 - 2014



Training of professionals and experts. Validation of the use of spacebased information at the country level by these groups.





Phases of the SEWS-D Project

Incorporation of the use of space-based information in SEWS-D operated in the countries of this region.



Phases of the SEWS-D Project

Tracking the use of space-based info in SEWS-D, following up on the implementation of the national drought policies; documenting lessons learned, adapting step-by-step procedures as needed;



MODIS Vegetation Product

Examples of Products: VCI and SVI Maps



Examples of Products: VCI and SVI Maps



University's Role

- Research about new satellites, applications and methodological approach for drought monitoring and early warning systems;
- Implement the Recommended Practices on different software: open source and commercial;
- Capacity building activities at different levels;
- Integrate new data with field information as well as ancillary data.



Thank You!

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