

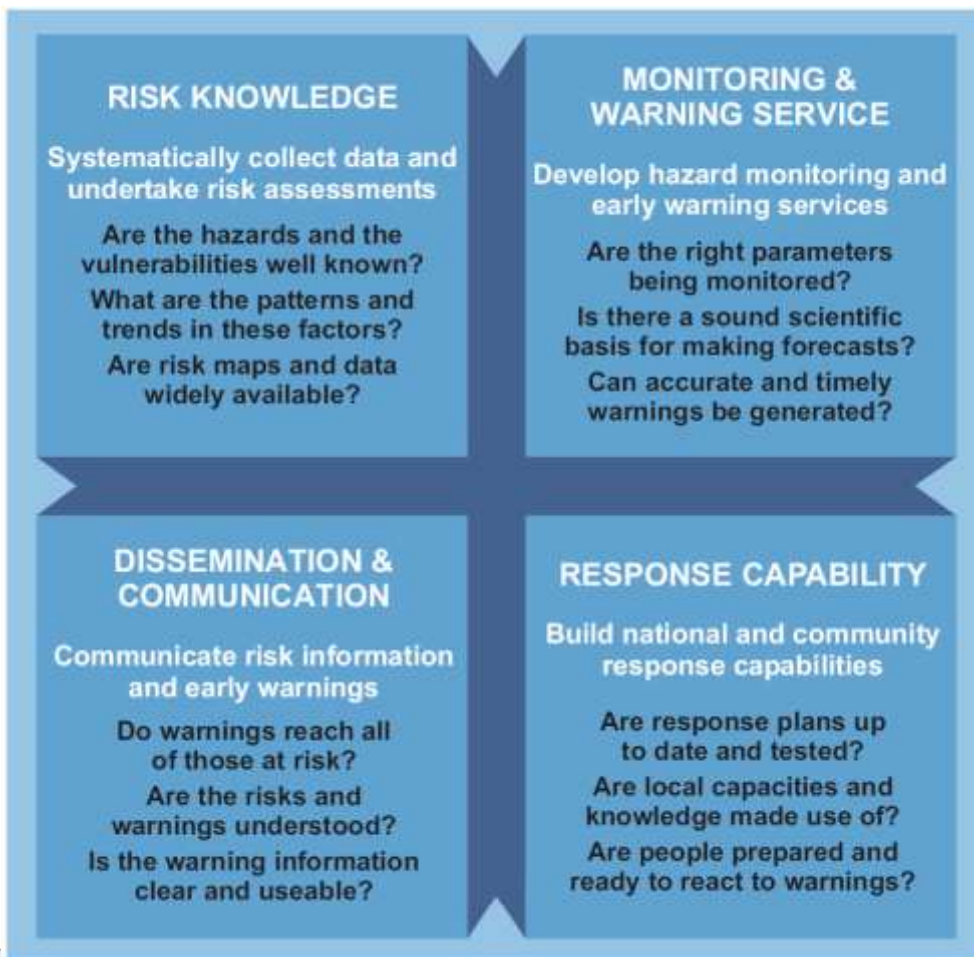
PROYECTO: Fortalecimiento del Sistema de Alerta Temprana (SAT) hidrometeorológico de las cuencas Zaza y Agabama, para proteger la población y recursos económicos en zonas vulnerables a inundaciones de las provincias de Sancti Spiritus y Villa Clara, Cuba.



Bridgetown, 14/ 04 / 2016



Four elements of people-centered EWS



Source: UN/ISDR
Platform for the
Promotion of Early
Warning

Risk Reduction Management Centers and Early Warning Points

Risk Reduction Management Centers (RRMCs):

Conducting assessments, helping local government in the disaster risk reduction processes, and supporting the Defense Council during disaster response



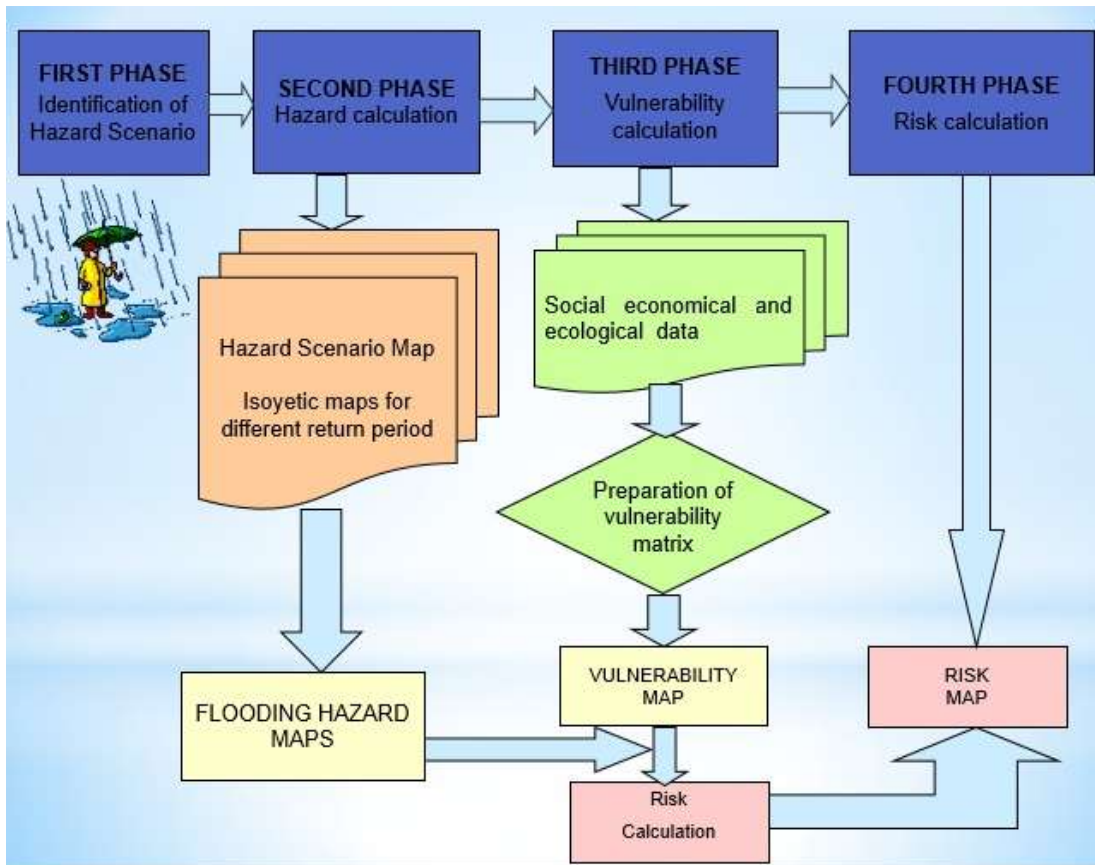
Early Warning Points (EWPs):

Helping the Defense Areas to inform and protect the population and providing the RRMCs with feedback



Risk Knowledge

The hazard, vulnerability and risk assessments (HVR): an analysis tool for specialists and decision-makers for managing risk



Risk Knowledge and Response Capability

The perception of the risk in the population is key to disaster reduction

Vulnerability and Capacity Assessment (VCA), a set of tools from the International Federation of Red Cross and Red Crescent Societies, allows the people to identify and understand the risks in their communities

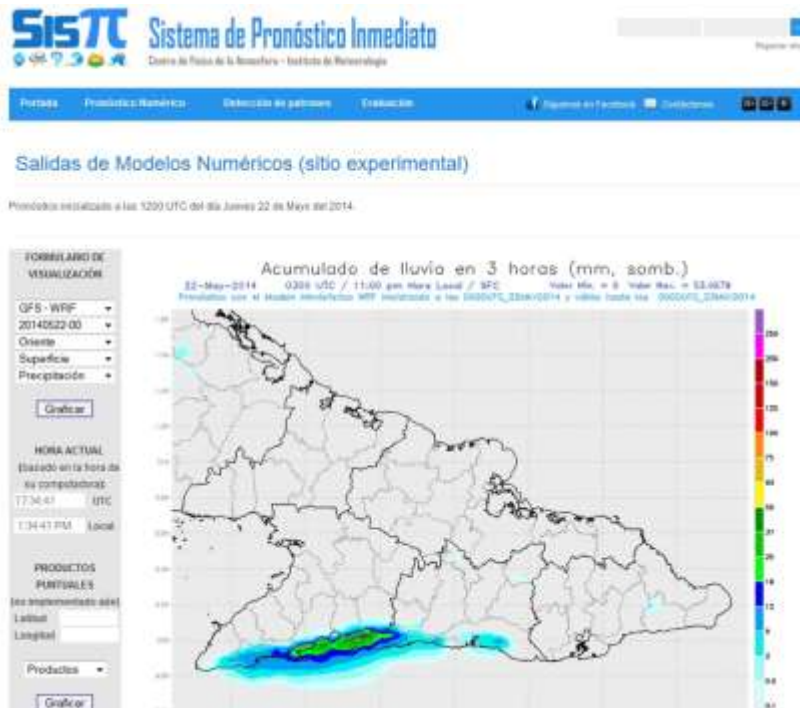
Sharing the Hazard, Vulnerability and Risk Assessment findings (a vertical scientific approach) with the VCA ones (an horizontal communitarian approach) improve the Disaster Reduction Plan of the community

The children are encouraged to learn about risks and to engage with the Disaster Reduction Plan of their school and community



Monitoring and Warning Services

The use of low budget clusters running numerical models for now-casting improve the Met forecasting which coupled with hydrological analysis and historical hazard scenarios makes better hazard forecasting



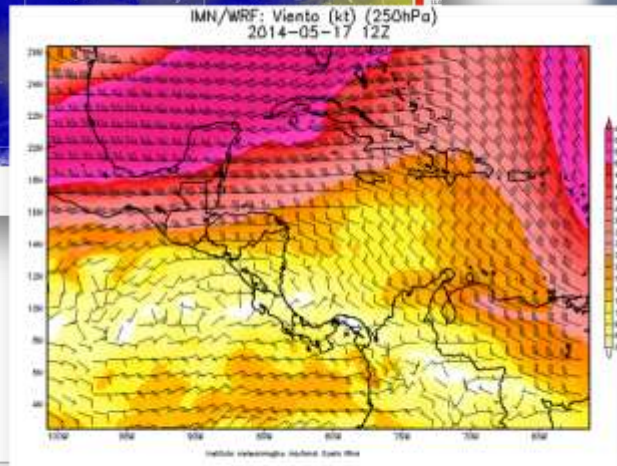
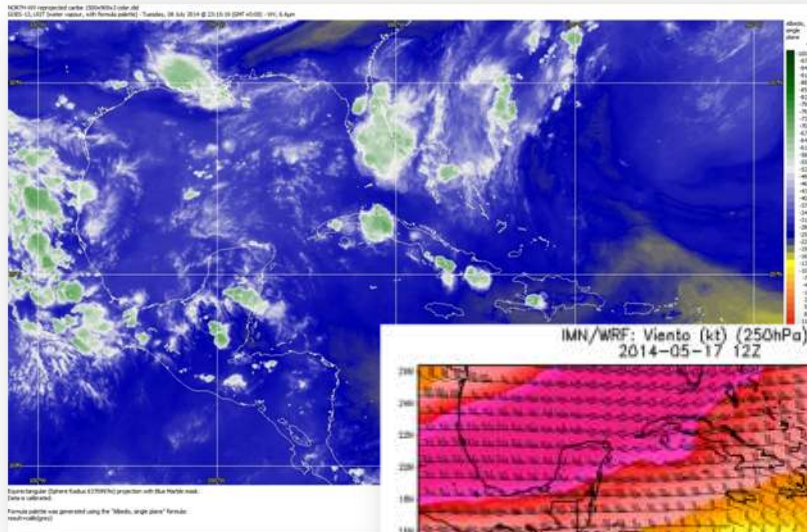
Monitoring and Warning Services

Development of a software (SISMAT) to handle AWS from different vendors and communication technologies. Installation of low budget AWS at Early Warning Points

The collage displays various components of the SISMAT system. On the left, there are several hardware units: a purple HUATRON Data Logger, a THIES DL 16 rain gauge, a GENPRO sensor, a SUTRON device, a NESA TMF 100, and a SATEL unit. In the center, there is a Davis weather station mounted on a pole. Below it, a computer monitor displays the SISMAT web interface for Casablanca, showing real-time data and a temperature graph for May 20, 2014. On the right, a man in a light blue shirt is pointing at a large monitor displaying the SISMAT interface.

Monitoring and Warning Services

Use of low budget satellite receiving systems (LRIT, GeonetCast , EumetSat) and development of a software tool to catalogue and distribute images and products



Dissemination & Communication

Development of a platform to exchange information between the actors of the EWS

The screenshot displays the 'Administrador de Reportes' (Report Administrator) interface. On the left, there are buttons for 'Enviar' (Send) with options 'como SMS' (as SMS) and 'como E-mail' (as E-mail). The main area shows an XML report structure for an alert, including details like title, location, and recipient information. Below the XML, there are two maps: one showing precipitation forecasts for the next 7 days of July 2015, and another showing a detailed weather map for the date 06/01/2016 00:40. The interface also includes a sidebar with a list of regions and a footer with various institutional logos.

Dissemination & Communication

In Cuba, the public met information comes only from one authorized source and the communication and dissemination of warnings are regulated

The Met has developed a low budget weather presentation system for TV broadcasting

In Cuba, where electricity is supplied to most of the population, the media play a key role in spreading warnings

In isolated communities, the Early Warning Points and Radio Amateurs help the Defense Area to the dissemination of warnings and provide the RRMCs with feedback



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THANK YOU

