

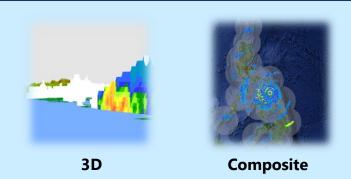
for Promoting Disasters Resilience



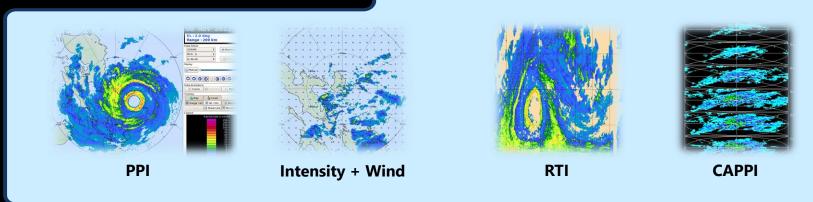
Radar Rainfall Sensor







J-BIRDS software provides various products



JRC's Supply Record in Parana State, Brazil















Purpose of the Project



Period Jan. 2019 (System operation started)

Target Area

Near Curitiba City (Landslide risk: High)

Main Purpose Transferring technologies on

Disaster Risk Prevention System with X-band Radar

to Civil Defense in Parana.

Data Acquisition



Polarimetric

Real-time Rainfall Data

Risk Analysis



Radar Data
Analysis Server
Landslide Risk Evaluation

Warning

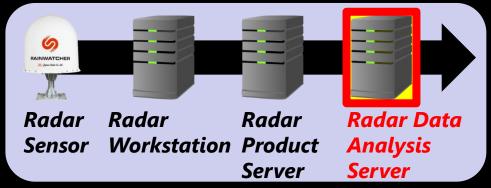


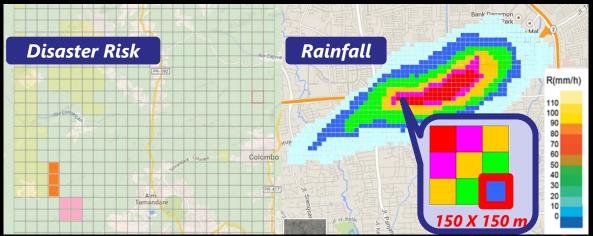
Civil Defense

Evacuation

Radar Data Analysis Function







Output Data

For Flood Forecasting

- > 1/10/60-min rainfall
- 24/48-hr rainfall
- Continuous rainfall

For Landslide Forecasting

- > 1.5-hr half-life working rainfall
- > 72-hr half-life working rainfall

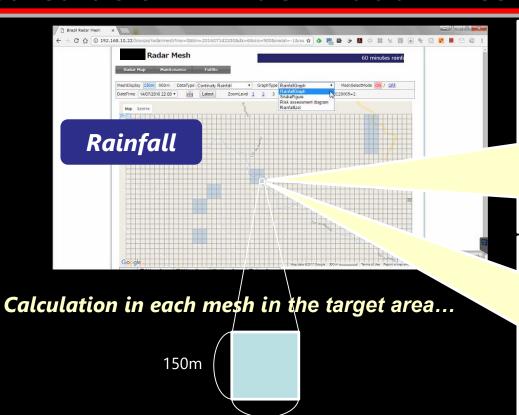
Installation of JMA-912 at Brazil



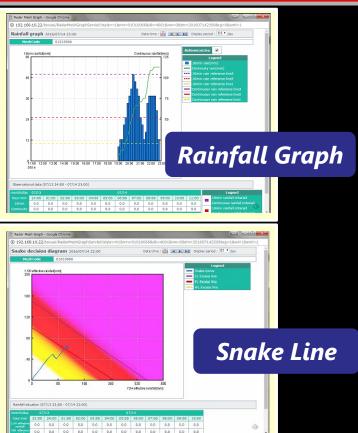


Calculation in Each Radar Mesh





150m

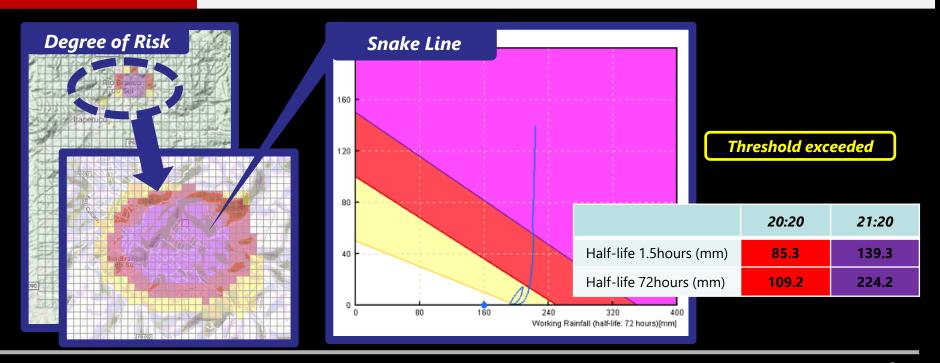


Landslide Warning – 30 Jan. 2019



[30 Jan. 2019] 20:08

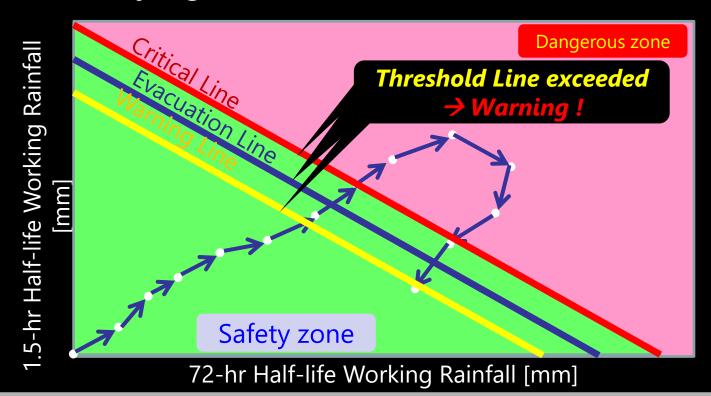
Landslide Warning was generated with heavy rain.



What is the Snake Curve?



Contributed to judgment of landslide risk index!!



JRC's Strength



JRC proposes and delivers the comprehensive disaster risk reduction system most suitable for your country.

- Experience of delivering more than 57 disaster risk reduction systems to overseas markets over 50 years
- Great technologies and know-how accumulated over the years
- > Flexible system configurations are available with a wide range of products