

A National Climate Observatory for Sri Lanka

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IWMI

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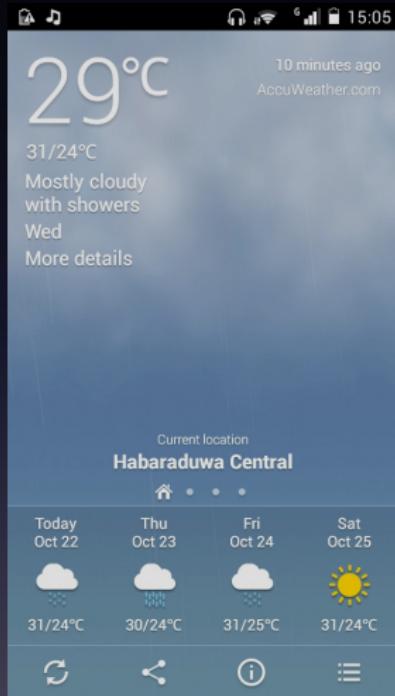
Sri Lankan Climate is changing

- Droughts Damage Agriculture
- High Rainfall Brings Floods
- Landslides Are Increasing



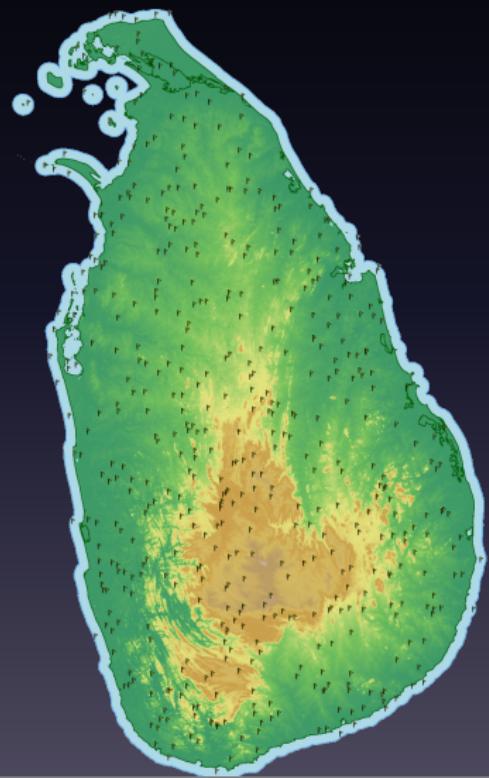
We need to know the weather now
publicly available
real-time
from local sources

Why do we need this?



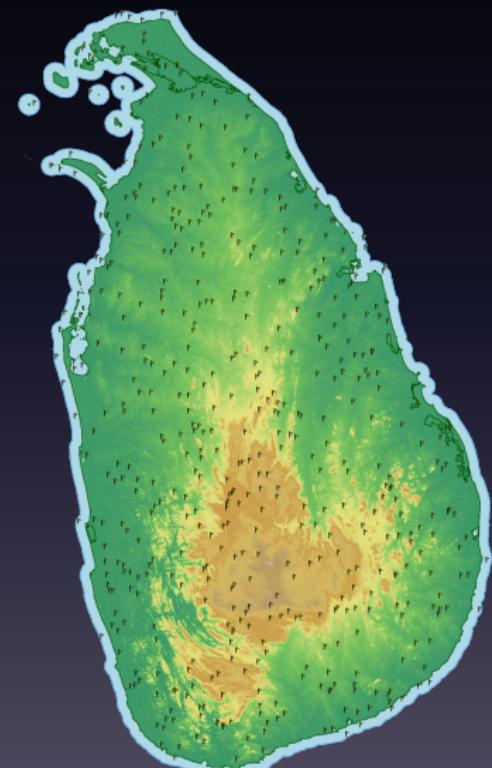
A National Climate Observatory

- National grid of stations
- Land and sea
- Public website
- Mobile Apps



National grid of stations

- 500 Weather Stations
- 5 minutes Reporting
- Climate-Based Grid
- Online
- $1/20^{th}$ Cost
- Improve Forecasting



Land and Seas

- Land systems
- Buoys at sea

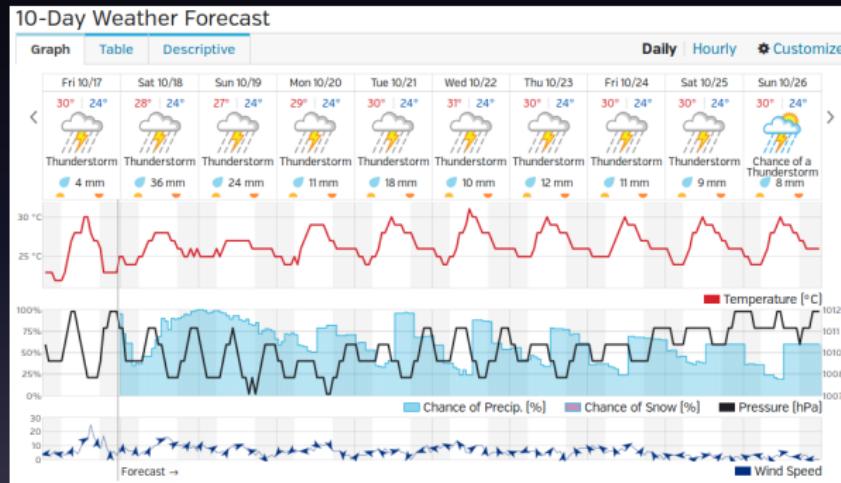


Data

- Wind
- Rainfall
- Temperature
- 10+ other records
- Sea Roughness
- Sea Temperature



Website



Mobile Apps



Warning Systems

- SMS
- Tsunami
- News Alerts
- Voice call



Benefits

Disaster Warning

- Floods
- Landslides
- Droughts
- Hurricanes
- Rough Sea



Energy

- Hydro Power Maximization
- Wind Farm Zoning
- Solar Power Zoning



Agriculture

- Droughts Warning
- Production Improvement
- Irrigation/Reservoir Services Optimization



Plantations

- Close Monitoring of Production
- Production Improvement Support



Fisheries

- Sea Safety Warning
- Continental Shelf Health
- Fisheries Conservation



Public Health

- Epidemiology
- Water-borne Diseases
- Dengue



Aviation

- Warning
- Re-Routing
- Improve Safety



Tourism

- Tour Planning
- Hotel Management
- Advertisement



The National Priorities



The National Climate Observatory

- National grid of weather stations
- Land and sea
- Public
- Local Sources
- Mobile & Web Apps

Questions