

"Public Safety & Disaster Management"

GeoIntelligence Asia 11-12 June, 2015 Rahul Saxena





STORM SURGE WARNING

- Storm Surge
- Astronomical tide
- Coastal bathymetry effects



METEOROLOGICAL SERVICES FOR DEFENCE

- Troop & logistic movements
- Upper air observations



METEOROLOGICAL SERVICES TO ANTARCTIC EXPEDITIONS

Comprehensive weather services



Meteorological Services for Pilgrimage

- Amarnath Yatra
- Kumbh mela etc



Agro Meteorological Advisory

- Crop Management Advisories
- Pest & Disease Advisories
- District Level Meteorological Forecast



Navigational Advisory

- Adverse Weather
- Sea State (High Seas)





ENVIRONMENTAL MONITORING

- Environmental clearances for industries etc
- Aerosol, Acid rain, Ozone, Atmospheric radiation



METEOROLOGICAL SERVICES FOR SPACECRAFT LAUNCHING

 Identification of favorable time window for launching



EARTHQUAKE DETECTION

- Location & Magnitude
- Seismic Zonation / Microzonation
- Seismic risk Assessment



POSITIONAL ASTRONOMY

- Astronomical ephemeris
- Indian calendar & Rashtriya
 Panchang
- Eclipses & Astronomical phenomena



METEOROLOGICAL SERVICES TO MOUNTAINEERS

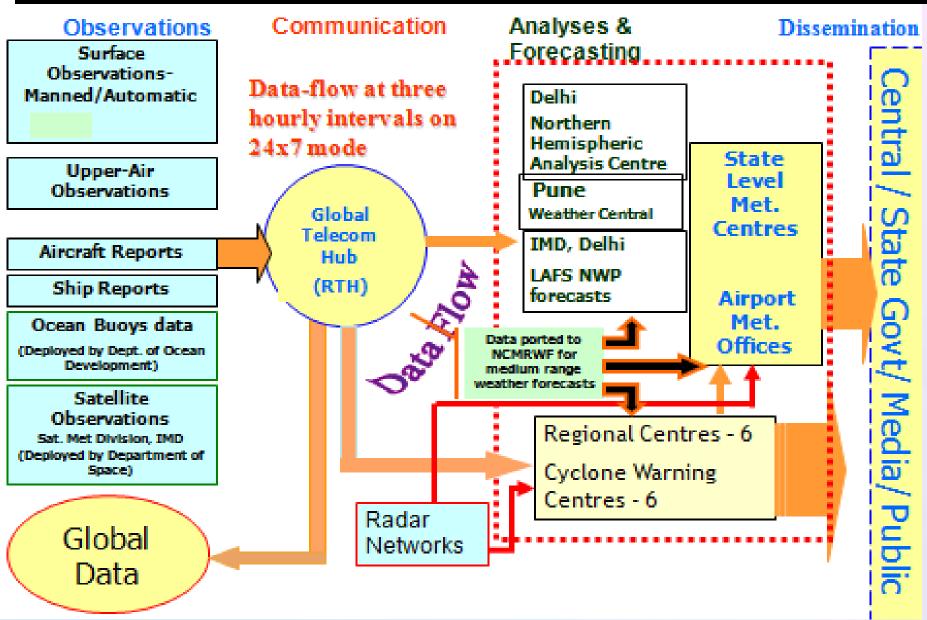
 Warning for hazardous weather enroute



AVIATION METEOROLOGICAL FORECAST

- Route & Terminal Aerodrome Forecast
- Weather Hazards Warning
- Flight Planning Information

IMD's Operational Weather Forecasting System



Forecast IMD's spectrum

- ❖ Public Weather Local Fore
- **❖** Sub-Divisional short range Forecast
- Tropical Cyclone Forecast & Warnings
- Forecasts related to all other Natural Disasters
- Long Range Forecast of Monsoon
- Climate Forecast services/ Regional Forum
- Sea State Forecast -Shipping & Fisheries
- Coastal Zone Forecasts
- Forecasts to Aviation
- Forecasts for Agriculture- Agro-advisory Services, Crop-Yield forecast
- Flood & Drought Forecasts
- Customized Forecasts to different Sectors- Power, Tourism, Defense, Adventure, Road/Railway transports, Public Utility, VIP functions, Strategic operations, Space, etc

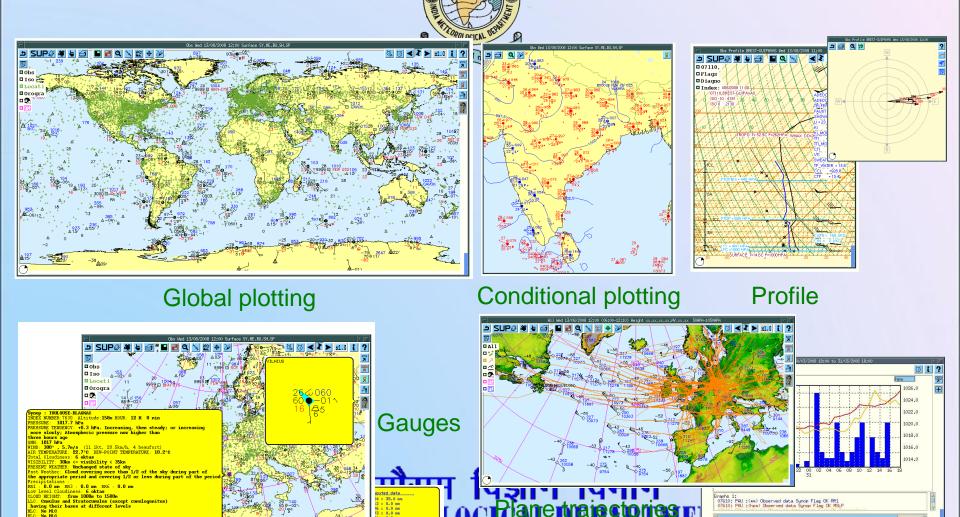


Weather data and forecast has become an important guidance in dealing with emergency situations both in pre and post events. The societal impact in terms of saving man and material is virtually incalculable as has been highlighted in the recent high impact weather events **Uttarkashi and phailin Cyclone**. The trend proves that weather data will not only remain an important factor in the decisions that are made at an individual level but would also affect the Governmental policies at the micro and macro level especially in the field related to agriculture and social sector.

The application of geospatial technology in weather monitoring specially climatic changes, analysis and planning cannot be undermined. The GIS based decision support systems have achieved a fair amount success in Disaster mitigation programs of the Government. So the development has it's implications on society.

. IMD has initiated lot of geospatial activities in the recent years that have proved beneficial of the people across spectrum.

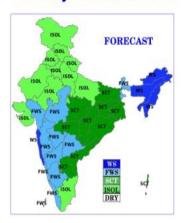
Modernisation of Forecasting System:Synergie





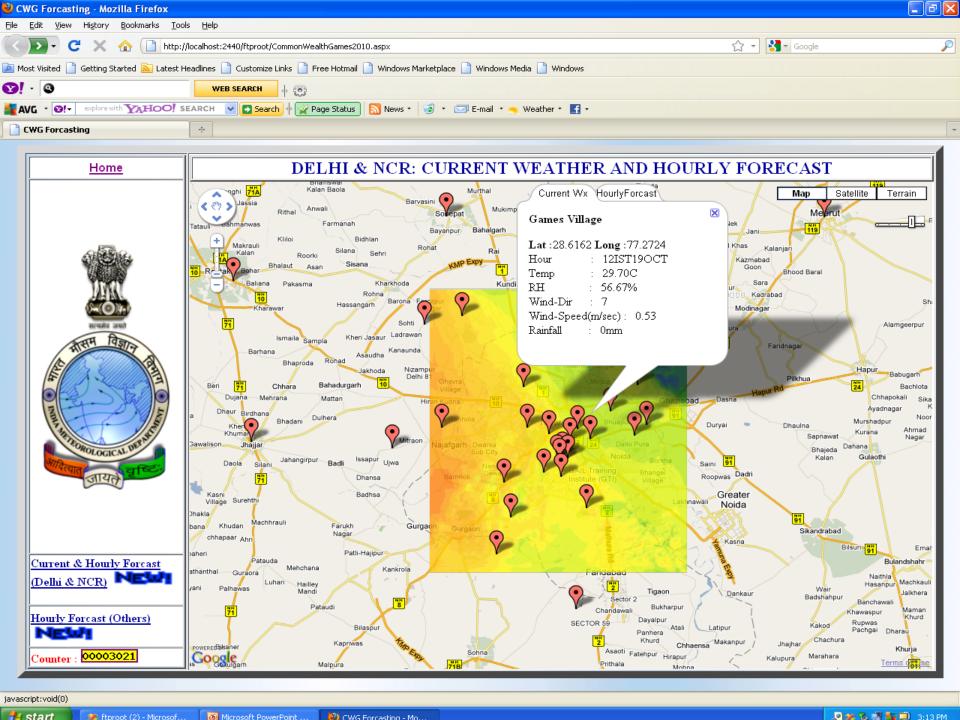
भारत मौसम विज्ञान विभाग पृथ्वी विज्ञान मंत्रालय India Meteorological Department Ministry of Earth Sciences

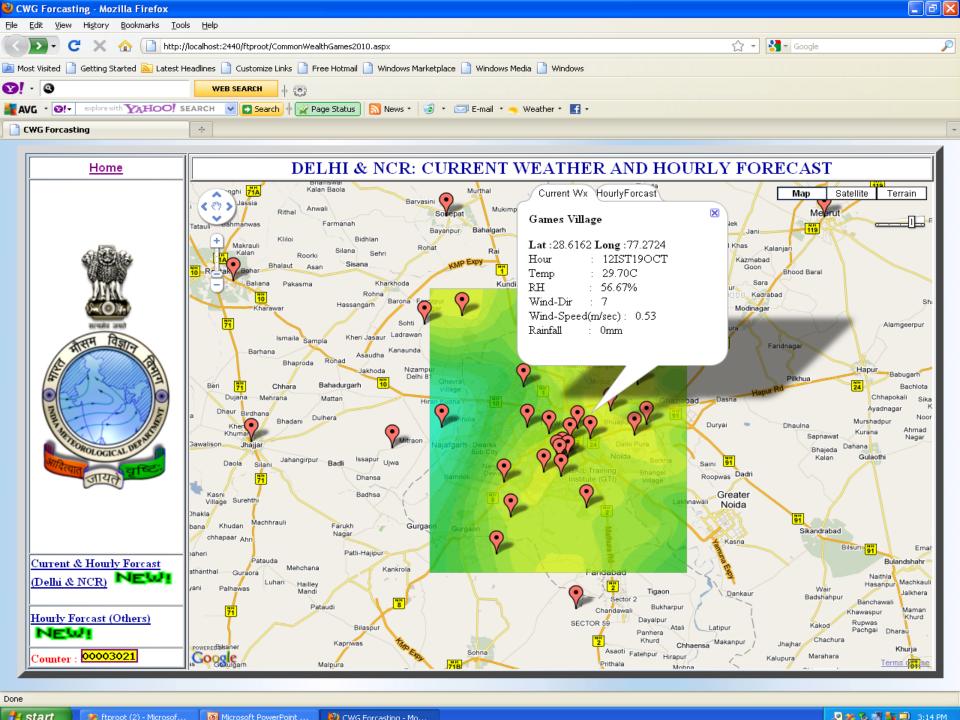
Friday 12 June 2015

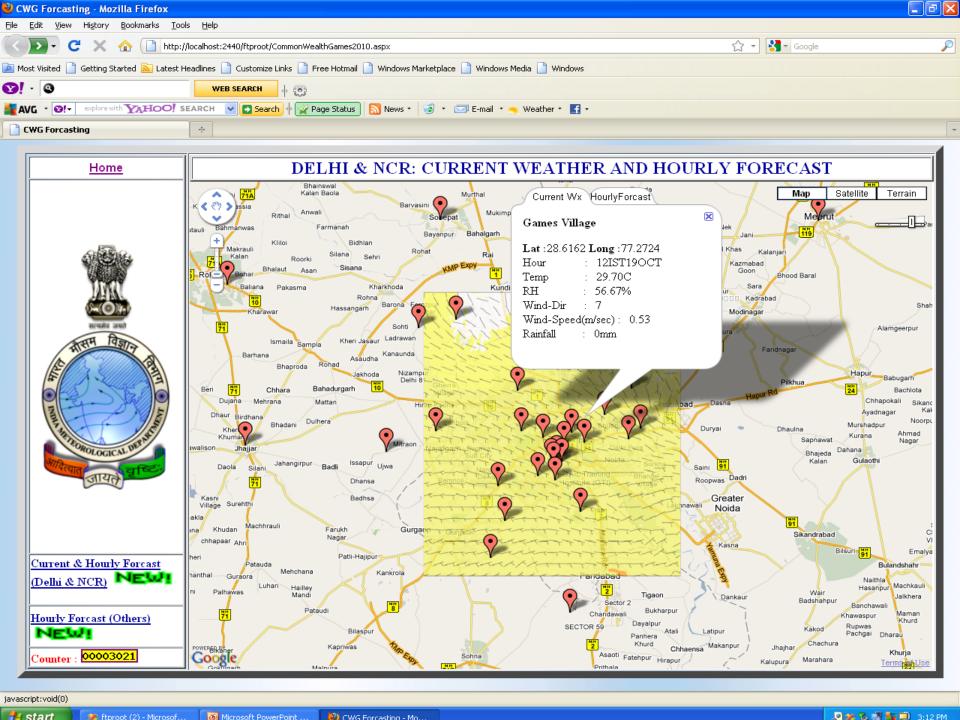




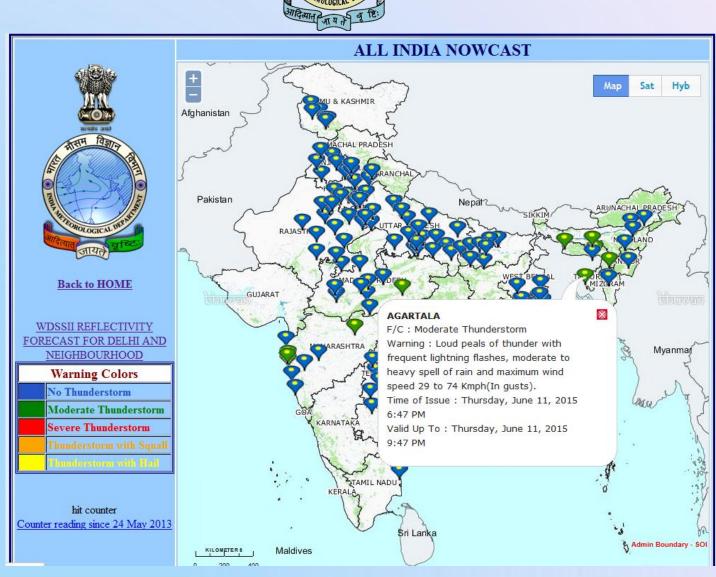
12 June (Day 1): Heavy to very heavy rainfall would occur at a few places with extremely heavy fall at isolated places over





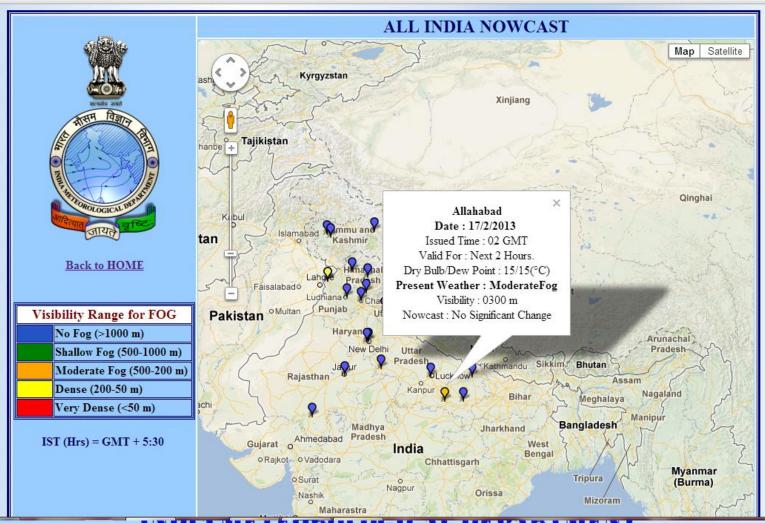


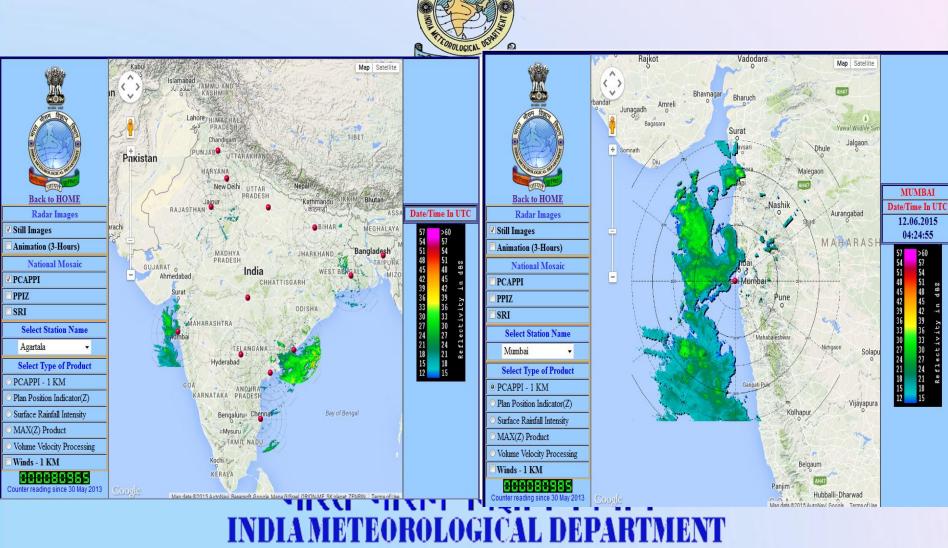






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Nov	NowCast Report							
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S.No	Station_Name	Warning	IssueDate	IssueTime	ValidDate	ValidTime		TotalFa

F/C: MODERATE THUNDERSTORM | 12/06/2015 | 11:37AM

2

GUWAHATI

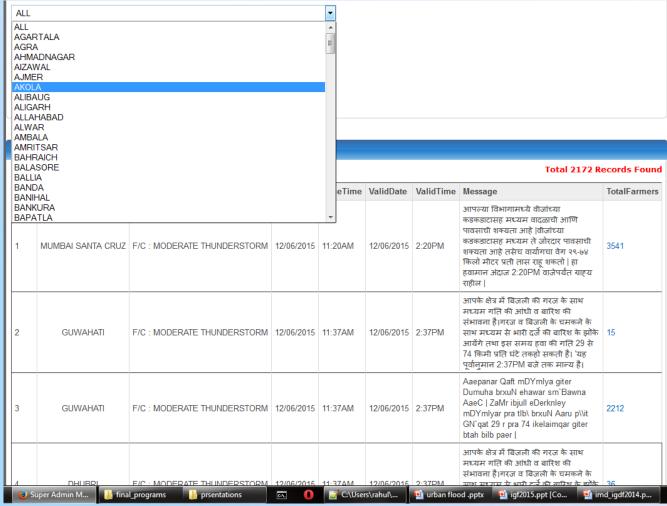
किलो मीटर प्रती तास राहू शकतो | हा हवामान अंदाज 2:20PM वाजेपर्यंत ग्राह्य

आपके क्षेत्र में बिजली की गरज के साथ मध्यम गति की आंधी व बारिश की संभावना है।गरज व बिजली के चमकने के

साथ मध्यम से भारी दर्जे की बारिश के झोंके आयेंगे तथा इस समय हवा की गति 29 से 74 किमी प्रति घंटे तकहो सकती है। 'यह पूर्वानुमान 2:37PM बजे तक मान्य है। Aaepanar Qaft mDYmlya giter

12/06/2015 2:37PM







❖ The technological advancement especially in the telecommunication sector has given a new impetus to providing Weather services in public. It has opened new vistas for handshaking with the new technologies like mobile - android applications to bridge the "last mile connectivity " by providing instant location specific weather-related information in textual as well as graphic format to the man on the move.



ET IMD launches weath∈ ×

cles.economictimes.indiatimes.com/2013-01-15/news/36353111_1_tablet-computer-users-weather-smartphones

Here are some suggestions:

- . Reload this webpage later.
- Check your Internet connection. Restart any router, modern, or other network devices you may be using.
- . Check your DNS settings. Contact your network administrator if you're not sure what this means.
- . Try disabling network prediction by following these steps: Go to the Chrome menu > Settings > Show advanced settings... and deselect "Predict network actions to improve page load performance." If this does not resolve the issue, we

You are here: Home > Collections > Imd

Ads by Google





IMD launches weather application for smartphones, tablet

PTI Jan 15, 2013, 09,41PM IST

Tags: Tablet | Smartphones | minister | Kolkata | Jaipal Reddy | India Meteorological Department | IMD | Google | application | APP

NEW DELHI: Weather information in four metros is now just a tap away.

The weather office today launched an application that enables smartphone and tablet computer users access near-real time weather-related information in Delhi, Chennai, Kolkata and Mumbai.

The 'Indian-weather' app can be downloaded free of cost from Google Play.

Ads by Google

New Nokia Lumia 920

World's most innovative smartphone. Explore its amazing features now! www.nokia.com/Lumia 920

New Properties in Gurgaon

Choose from the best locations in Gurgaon for your dream home. Hurry! unitechgroup.com/gurgaon-apartments





















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