Assessing Environment and web pages

Accessing Web sites

Understanding

– low level flow
– upper level flow
– Steering patterns
– Ocean
– Humidity fields
– Wind shear
Web sites
Severe Weather Forecasting and Disaster Risk Reduction Demonstration Project SWFDDP
http://swfddp.metservice.com/

South Pacific Guidance
For Severe Weather Forecasting and Disaster Risk Reduction Demonstration Project (SWFDDP).
Issued at: 03:08 01 Sep 2015 UTC
Valid at: 12:00 31 Aug 2015 UTC
Easterly winds cover much of the Southwest Pacific. A weak trough extends from Tuvalu to the Cook Islands.
Web sites: Fiji Met Service and other agency sites

http://www.met.gov.fj/
Web sites
CIMSS
http://tropic.ssec.wisc.edu/
+ TPW products
IO022015 - Tropical Cyclone (<64 kt) TWO

View model data products for this storm.

New: View wind speed probabilities products for this storm

Forecast Track

Time of Latest Forecast: 201507300600

<table>
<thead>
<tr>
<th>Forecast Hour</th>
<th>Latitude</th>
<th>Longitude</th>
<th>Intensity</th>
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<tbody>
<tr>
<td>0</td>
<td>22.5</td>
<td>91.8</td>
<td>35</td>
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<tr>
<td>12</td>
<td>23.1</td>
<td>91.3</td>
<td>30</td>
</tr>
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<td>120</td>
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</table>

Forecast Track Archive

About Forecast Track
Web sites: CIRA

http://rammb.cira.colostate.edu/products/tc_realtime/index.asp
Web sites
NESDIS page

http://www.ssd.noaa.gov/PS/TROP/

NESDIS Tropical Cyclone Products

Active Storms:

<table>
<thead>
<tr>
<th>Storm Name</th>
<th>Storm ID</th>
<th>Dvorak Intensity</th>
<th>Last Classified</th>
<th>Basin</th>
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</thead>
<tbody>
<tr>
<td>HENRY</td>
<td>17C</td>
<td>T3.5/5.5</td>
<td>01/0000Z</td>
<td>East Pacific</td>
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<tr>
<td>LUCIAN</td>
<td>14E</td>
<td>T4.5/6.5</td>
<td>21/0000Z</td>
<td>East Pacific</td>
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<tr>
<td>IGNACIO</td>
<td>06L</td>
<td>T3.5/3.5</td>
<td>21/2330Z</td>
<td>Atlantic</td>
</tr>
</tbody>
</table>

SPSD Tropical Program Products:

Satellite Imagery
Static and animated imagery of tropical disturbances, tropical cyclones and areas of interest. Users have the ability to overlay a variety of data on animated imagery loops of tropical storms.

eTRaP
The eTRaP is a simple ensemble that allows for the generation of probabilistic forecasts of rainfall in addition to deterministic rainfall totals.
Web sites
JTWC

http://www.usno.navy.mil/JTWC/

Current Northwest Pacific/North Indian Ocean* Tropical Systems

Tropical Cyclone 02B (Two) Warning #06 Final Warning
Issued at 30/0900Z

- TC Warning Text
- TC Warning Graphic
- JMV 3.0 Data
- Google Earth Graphic Overlay
- Multispectral Satellite Imagery

Satellite Fix Bulletin

Tropical Depression 13W (Thirteen) Warning #01
Issued at 30/0900Z

- TC Warning Text
- TC Warning Graphic
- Prognostic Reasoning
- JMV 3.0 Data
- Google Earth Graphic Overlay
- Multispectral Satellite Imagery
Web sites
NCAR RAL page
http://www.ral.ucar.edu/hurricanes/realtime/current/
Web sites: NCAR RAL page
links to model plots

http://www.ral.ucar.edu/hurricanes/realtime/current/
JTWC a-deck file 'ash...dat': no password required
Web sites: Other Satellite
Note: Metconnect very good for satellite

http://www.goes.noaa.gov/shemi.html
Web sites: NRL

http://www.nrlmry.navy.mil/TC.html
Web sites: Scatterometry

http://manati.star.nesdis.noaa.gov/datasets/ASCATData.php/
Web sites: FNMOC models

Web sites for models: HWRF Hi-res model

Web sites
ECMWF

http://www.ecmwf.int/  Password protected!!!

Charts

Select and view our charts - forecasts and associated verification

Our Integrated Forecasting System (IFS) provides forecasts for multiple time ranges.

We provide a range of forecast products to address different user requirements. These present key aspects of the forecast evolution and the associated uncertainty. Specific products designed to highlight potential severe weather events include the Extreme Forecast Index and tropical cyclone activity.

Click on the category title or the associated thumbnail below to access all charts for that category.

Medium range

Up to 10/15 days ahead.

Overview (text)
ENS meteograms
ENS meteograms for WMO

Extended range

Up to 30 days ahead.

Overview (text)
Plumes
Tropical cyclones

Long range

Up to 13 months ahead.

Overview (text)
Nino plumes
Tropical cyclones
Web sites for models

tropicaltidbits.com
Web sites for models EC and GFS

windy.com

also earth.nullschool.net;

Norwegian for EC http://www.yr.no/kart/
Web sites
BoM

Web sites
NOAA/AOML Ocean page

http://www.aoml.noaa.gov/phod/cyclone/data/sp.html
Web sites
RSS Storm watch

http://www.remss.com/storm-watch
Understanding Low level flow

Convergence, synoptic features MT

Understanding Low level flow

Observations/analyses/scatterometry

http://www.prh.noaa.gov/hnl/graphics/stream.gif

http://manati.star.nesdis.noaa.gov/datasets/ASCATData.php/
Understanding moisture & synoptic systems

WV loop (CIRA)

Understanding moisture & synoptic systems

Total precipitable water loop

Understanding upper level flow

Divergence, upper ridge axis, ML trough

http://tropic.ssec.wisc.edu/real-time/windmain.php?&basin=indian&sat=wm5&prod=wvir&zoom=&time=
Understanding wind shear

Low – mod – high?

http://tropic.ssec.wisc.edu/real-time/windmain.php?&basin=austeast&sat=wgms&prod=shr&zoom=&time=
Web sites Ocean:
2. NOAA/AOML http://www.aoml.noaa.gov/phod/cyclone/data/sp.html
Exercise

Using web pages diagnose the current synoptic environment:
Identify synoptic systems,
Low, mid, upper level flow,
Low-mid level moisture,
Wind shear,
Ocean temperatures;

What does this say about the cyclone or potential cyclone?