



Strong Wind theme report 1

Identified needs/problems

- validation of sat. marine winds
- integration of all reporting wx stns into archive
- “coastal gap” problem needs to be addressed
 - sat. radar good only to 25 km, buoys out 150 nm+
 - what is NSF’s new initiative?
 - need initiative to link coastal winds to near coastal zone
- standardize wave height reporting
- verification of NWS gridded forecast
- some sat quality issues, eg precip contamination, but in general it is a good resource
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Resources

- NWS gridded fields new climatology resource
- Various resources for HI – GFS, RSM, some MM5, WRF
- Terrestrial coastal stations – 14 currently archived in HI
- CPC storm track, intensity, wave, precip fields
 - CPC output already going out in GIS format
- TC passage data
- 6 hly blended seawinds (sat) quarter-degree grid (speed)
- CSC stakeholder report (on line)
- NWS survey also done – find this

Ideas

- collect Pacific environmental forcing data/links at IDEA central server location
- coastal station wind climatology –
 - direct at wind-sensitive users that have choices about when they can conduct operations, eg paragliding
- correlate NNR data with harbor water levels
 - arrive at statistical climatology of atm situations that generate high harbor wl
 - would enable NWS to issue non-storm condition advisories
- run this with “conditional” climatologies, eg fit within the ENSO regime etc

Many Uses of High Resolution Wind Data

- Wind generated energy
- Insurance
- Tourism – surfing and wind-surfing
- Sailing
- Shipping (in channels and ports/bays)
- Fishing
- Emergency Management
- Gliders, parasailers (rec&tourism)