

Plan for COSAT (CS99) data gathering and data distribution.

(Version 4 - 990730)

A. *Non-UW data sources.*

While most of the data of interest will be archived at various places, real-time capture of the main products is needed for quick-look use. Larry Oolman will set up a procedure for recording these data in Laramie.

The following items constitute the base set:

1. GOES 1km VIS,
2. AVHRR ????
3. 'Low cloud' images. These are two-wavelength IR images at night and VIS images during the day. The source is: <http://www.nrlmry.navy.mil/sat-bin/lowcloud.cgi>, selecting the Oregon area. Full 24 h coverage for the entire period is desirable.
4. COAMPS model output - <http://www.nrlmry.navy.mil/nrl-bin/COSAT/cosat.cgi>. Model runs are made each morning and are expected to be available by 8 am PDT. Fields of main interest are: Nest 3; 0 h – 500 m winds, 500 m temp and RH, cloud base and cloud top.
5. ORST model runs – <http://ca.engr.orst.edu/~barboup/Coast1.html>. Fields of interest are 'vertically integrated liquid water' at 00Z and 12Z.
6. DRI analyses: ????
7. Newport, OR profiler – http://www7.etl.noaa.gov/RTdata/radar/images/npt/npt*_ras.gif. Save image once a day.
8. Newport, OR surface site - http://www7.etl.noaa.gov/RTdata/surfmet/images/npt/npt*_met.gif. Save once a day.
9. Sea-surface temperature -

Additional sites of interest:

10. TAMS model visualization - <http://wizard.nrlmry.navy.mil:7676/DaFWA>.
11. ORST sea surface data - http://www.oce.orst.edu/marine_obs.shtml.

B. *UW hard-copy quick-look on-site.*

1. Listing of major parameters from in-situ probes at 6-s intervals.
2. Flight notes, photos and video
3. Total flight summaries of key state parameters.
4. Flight track and radar beam maps.
5. B&W images of uncalibrated radar reflectivity.

C. *UW quick-look output on web.*

This material will be placed on the WCR web page under Project CS99. Data will be generated at the field site and prepared in a format ready to be posted.

1. Project page with calendar.
2. Daily flight track in COAMPS coordinates, and time-altitude plot. Date and time to be given as 14 digit number YYYYMMDDHHMMSS - this date format will be added to the processed K/A data. Coordinates are lat. and lon. in decimal degrees, altitude in meters.
3. Radar beam map in same format as flight track.
4. Sample photo and sample radar image.
5. Flight notes.
6. Sounding in terms of ***T, thetav, RH.***
7. Vertical profiles of mean and range of ***LWC, N, r_{eff}, drizzle rate, winds.*** Integrated ***LWP*** inserted on ***LWC*** plot. Calculated optical depth? Radiation parameters?
8. Vertical plane projections of ***T, LWC.*** Orientation of plane defined by wind at mid-cloud level.

D. *UW first-look data distribution.*

These data will be placed on the anonymous ftp site on 'screamer'.

No radar data will be included in the first-look set.

KingAir data will be given at 15-second intervals.

1. Coordinates: ***lat & lon*** in decimal degrees.
2. Time (14 digits)..
3. ***alt*** in meters, ***T, thetav, RH, LWC, N, r_{eff}, drizzle rate, winds.***

E. *UW archived data.*

All archived data will be on 8 mm Exabyte tapes in netCDF files.

1. KingAir data at 1 Hz and at 25 Hz.
2. Calibrated radar reflectivity and radial velocity.
3. AVAD analyses for selected flight segments.