

Two-Day Marine Weather 1 (formerly, Basic Marine Meteorology)

The two-day course syllabus covers the following:

- The language of weather (specifically important definitions);
- An introduction to "Weather 101" principles(e.g. the importance of temperature, moisture, clouds, radiation, & the forces drives the wind);
- Common surface weather systems & their features (e.g., lows, highs, fronts, troughs, ridges),the typical graphical weather symbols commonly found on Pacific (& Atlantic) Ocean surface pressure weather charts(e.g. "L's", "H's"; dashed, dotted, & solid lines);
- The breakdown of an alpha-numeric text forecast & voice VHF broadcasts (the synopsis & forecast portion that follows);
- Local weather affecting the inland waters & temperature differences in the nearby coastline influences (e.g. San Francisco Bay as well as nearby coastal areas of northern and central California land-sea coastal influences e.g., Pt St George to Cape Mendocino);
- What goes into a human intelligence originated forecast (e.g. the professional meteorologists input into a weather forecast);
- How to document and verify all surface weather forecasts for confidence building (e.g. comparing 48/96 Hour Surface Forecasts and the validation of them with the most current Surface Analyses having the same Valid Date & Time);
- Practical hands on exercise scenarios for reinforcement of what has been discussed in previous sessions;
- We will look at the following questions with practical answers: How will the weather impact your trip? What choices will you make? What do you need do to assemble the weather forecast products you will need?
- There will be supplemental handout material. In class however, be prepared to take notes, ask questions, and be interactive with both the instructor and classmates. Copies of the presentation modules conducted in class will be made for available in an electronic format for later review.