

MountainRT® Product Description

MountainRT® (or MtnRT®) graphic products provide a powerful tool for quantitative precipitation forecasting in West Coast storms.

MtnRT forecast graphics uses National Weather Service's gridded model forecast data, and downscales it to 1.5 km. The downscaling includes consideration of influence by terrain, slope, aspect, and cloud amount using a proprietary algorithm developed by Fox Weather, LLC. MountainRT is being validated daily by the Integrated Plant Protection Center (IPPC) at Oregon State University, Corvallis, OR.

One-hour QPF's for the duration of a storm event reduces the guesswork in water quality monitoring.

MtnRT is implemented currently out to 120 hours with ability to provide a credible rain scenario out 4 days at 1-hour temporal resolution.

GIS mapping offers greater precision in locating expected precipitation maxima with respect to key management areas and locales.

MtnRT forecast maps cover the following time ranges:

Day-0 thru Day-5, inclusive

Forecast valid times are: 0000, 0600, 1200, 1800 UTC on Day-(x)

Map Data Resolution: 1.5 km. Precipitation accumulations are 6 hour.

Regions are:

| | | |
|---------------------|------------|--------------|
| Southern California | 32.0-35.0N | 122.0-114.0W |
| Central California | 35.5-37.0N | 122.0-118.0W |
| Northern California | 37.0-42.0N | 124.5-119.5W |
| Arizona | 31.0-35.5N | 115.0-110.0W |
| Western Mexico | 23.6-32.0N | 116.0-104.0W |
| Southern Mexico | 14.0-25.0N | 106.0-90.0W |

Times are Day-0 thru Day-5 inclusive

MtnRT Temperature Maps - Forecast of surface temperature at 2m.

MtnRT RH Maps - Forecast of surface relative humidity at 2m.

MtnRT Precip Maps - Forecast of accumulated 6-hr rainfall ending at the valid time.

MtnRT Snow Maps – Forecast of 6-hr snow accumulation ending at the valid time, during Nov 1 – Apr 30 (normal snow season in California).

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