```
## NCEP & NWS ##

**NWS Portland**  *[(NWS Portland)](https://www.weather.gov/pqr/)*
[[Eugene forecast at a glance]](https://forecast.weather.gov/MapClick.php?lon=-123.0
7004928588869&lat=44.03768897706345#.XKPy_C2ZPUI)
Eugene 6-day (144hr) hourly forecast plot:
[[summer]](html/eugwx/all3_eug_summer.html)
[[winter]](html/eugwx/all3_eug_winter.html)
[[GFS Eugene meteogram day 1-16]](html/eugwx/eug_cola_meteo_0-16.html)
[[Portland area forecast discussion]](https://www.weather.gov/wrh/TextProduct?produc
t=afdpqr)
[[Portland fire WX discussion]](https://forecast.weather.gov/product.php?site=PQR&is
suedby=PQR&product=FWF&format=CI&version=1&glossary=0)

**NCEP** *[(NCEP)](https://www.ncep.noaa.gov/)*
[[National forecast maps]](http://www.weather.gov/forecastmaps)
[[Tables]](https://www.ncep.noaa.gov/nationalmaps/)
[[Model guidance page]](http://mag.ncep.noaa.gov/model-guidance-model-area.php)
[[Environmental Modeling Center]](https://www.emc.ncep.noaa.gov)
[[Winter Storm Severity Index]](https://www.wpc.ncep.noaa.gov/wwd/wssi/wssi.php)
[[Winter Weather Forecasts]](https://www.wpc.ncep.noaa.gov/wwd/winter_wx.shtml)

**Storm Prediction Center (Severe storms)** *[(SPC)](https://www.spc.noaa.gov/)*
[[Overview]](https://www.spc.noaa.gov/)
[[Convective outlooks]](https://www.spc.noaa.gov/products/outlook/)
[[Storm reports]](https://www.spc.noaa.gov/climo/online/)

## PNW WRF-GFS mesoscale forecasts ##

**NW Regional Modelling Consortium** *[(NWRMC)](http://www.atmos.washington.edu/mm5r
t/)*  <br>

WRF-GFS 36km
[[model topography]](http://www.atmos.washington.edu/mm5rt/domains/may06.36kmterrain
.gif)
[[land cover]](http://www.atmos.washington.edu/mm5rt/domains/may06.36kmlanduse.gif)

[[300mb winds]](http://www.atmos.washington.edu/%7Eovens/loops/wxloop.cgi?mm5d1_300j
+//72/3)
[[500mb vort.]](http://www.atmos.washington.edu/%7Eovens/loops/wxloop.cgi?mm5d1_500v
or+//72/3)
[[700mb omega]](http://www.atmos.washington.edu/%7Eovens/loops/wxloop.cgi?mm5d1_700w
+//72/3)
[[1hr ppt]](http://www.atmos.washington.edu/%7Eovens/loops/wxloop.cgi?mm5d1_pcp1+//7
2/1)
[[OLR]](https://a.atmos.washington.edu/~ovens/wxloop.cgi?wrfd1_olr+//84/3)
[[850mb T]](http://www.atmos.washington.edu/%7Eovens/wxloop.cgi?wrfd1_850t+//84/3)
[[850mb RH]](http://www.atmos.washington.edu/%7Eovens/loops/wxloop.cgi?mm5d1_850rh+/
/72/3)
[[CAPE]](http://www.atmos.washington.edu/%7Eovens/wxloop.cgi?mm5d1_mcape+//84/3)
[[2m T]](http://www.atmos.washington.edu/%7Eovens/loops/wxloop.cgi?mm5d1_tsfc+//72/3
)
[[SLP]](http://www.atmos.washington.edu/%7Eovens/loops/wxloop.cgi?mm5d1_slp+//72/3)

[[water-vapor flux]](https://atmos.washington.edu/~ovens/wxloop.cgi?wrfd1_ivt+//84/3
)
[[precipitable WV]](https://a.atmos.washington.edu/~ovens/wxloop.cgi?wrfd1_ti_pcpw+/
//3)
[[84hr accum ppt]](https://a.atmos.washington.edu/~ovens/wxloop.cgi?wrfd1_pcpt+//84/
3)
[[6hr forecast stack]](https://pages.uoregon.edu/bartlein/exercises/uw_wrf-gfs/uw_wr
f-gfs_36km.html)

WRF-GFS 12km
[[model topography]](http://www.atmos.washington.edu/mm5rt/domains/may06.12kmterrain
.gif)
[[land cover]](http://www.atmos.washington.edu/mm5rt/domains/may06.12kmlanduse.gif)

[[300mb winds]](http://www.atmos.washington.edu/%7Eovens/loops/wxloop.cgi?mm5d2_300j
+//72/3)
[[500mb vort.]](http://www.atmos.washington.edu/%7Eovens/loops/wxloop.cgi?mm5d2_500v
or+//72/3)
[[700mb omega]](http://www.atmos.washington.edu/%7Eovens/loops/wxloop.cgi?mm5d2_700w
```

```
+//72/3)
[[1hr ppt]](http://www.atmos.washington.edu/%7Eovens/loops/wxloop.cgi?mm5d2_pcp1+//7
2/1)
[[OLR]](https://a.atmos.washington.edu/~ovens/wxloop.cgi?wrfd2_olr+//84/3)
[[850mb T]](http://www.atmos.washington.edu/%7Eovens/wxloop.cgi?wrfd2_850t+//84/3)
[[850mb RH]](http://www.atmos.washington.edu/%7Eovens/loops/wxloop.cgi?mm5d2_850rh+/
/72/3)
[[CAPE]](http://www.atmos.washington.edu/%7Eovens/wxloop.cgi?mm5d2_mcape+//84/3)
[[2m T]](http://www.atmos.washington.edu/%7Eovens/loops/wxloop.cgi?mm5d2_tsfc+//72/3
)
[[SLP]](http://www.atmos.washington.edu/%7Eovens/loops/wxloop.cgi?mm5d2_slp+//72/3)

[[water-vapor flux]](https://a.atmos.washington.edu/~ovens/wxloop.cgi?wrfd2_ivt+//84
/3)
[[precipitable WV]](https://a.atmos.washington.edu/~ovens/wxloop.cgi?wrfd2_ti_pcpw+/
//3)
[[84hr accum precip]](https://a.atmos.washington.edu/~ovens/wxloop.cgi?wrfd2_pcpt+//
84/3)
[[1hr snow]](http://www.atmos.washington.edu/%7Eovens/loops/wxloop.cgi?mm5d2_snow1+/
/72/1)
[[24hr snow]](http://www.atmos.washington.edu/%7Eovens/loops/wxloop.cgi?mm5d2_snow24
+//72/3)
[[Pr frz ppt]](http://www.atmos.washington.edu/%7Eovens/loops/wxloop.cgi?mm5d2_ptype
+//72/3)
[[6hr forecast stack]](https://pages.uoregon.edu/bartlein/exercises/uw_wrf-gfs/uw_wr
f-gfs_12km.html)

WRF-GFS 4km
[[model topography]](http://www.atmos.washington.edu/mm5rt/domains/may06.4kmterrain.
gif)
[[land cover]](http://www.atmos.washington.edu/mm5rt/domains/may06.4kmlanduse.gif)

[[1hr ppt]](https://atmos.washington.edu/%7Eovens/wxloop.cgi?wrfd3_ti_pcp1+///1)
[[OLR]](https://a.atmos.washington.edu/~ovens/wxloop.cgi?wrfd3_olr+///3)
[[700mb omega]](https://a.atmos.washington.edu/~ovens/wxloop.cgi?wrfd3_700w+///3)
[[850mb T]](https://atmos.washington.edu/%7Eovens/wxloop.cgi?wrfd3_ti_850t+///3)
[[2m T]](https://atmos.washington.edu/%7Eovens/wxloop.cgi?wrfd3_ti_tsfc+///3)
[[SLP]](https://atmos.washington.edu/%7Eovens/wxloop.cgi?wrfd3_ti_slp+///3)
[[1hr snow]](http://www.atmos.washington.edu/%7Eovens/loops/wxloop.cgi?mm5d3_snow1+/
//1)
[[24hr snow]](http://www.atmos.washington.edu/%7Eovens/loops/wxloop.cgi?mm5d3_snow24
+///3)
[[Pr frz ppt]](http://www.atmos.washington.edu/%7Eovens/loops/wxloop.cgi?mm5d3_ptype
+///3)
[[84hr accum precip]](https://a.atmos.washington.edu/~ovens/wxloop.cgi?wrfd3_pcpt+//
84/3)
[[Eugene-Jackson x-sec]](https://a.atmos.washington.edu/~ovens/wxloop.cgi?wrfd3_cxeu
gene+///3)
[[Eugene sounding]](https://a.atmos.washington.edu/mm5rt/rt/showsounding_d3.cgi?init
model=GFS&yyyymmddhh=timeindep&reqhr=0&loc=keug&locname=Eugene%2COR&latlon=44.13N,12
3.2W)
[[Hot-Dry-Windy]](https://a.atmos.washington.edu/~ovens/wxloop.cgi?wrfd3_hdw+///3)

WRF-GFS 1.33km
[[model topography]](http://www.atmos.washington.edu/mm5rt/domains/nov16.1.33kmterra
in.gif)
[[land cover]](http://www.atmos.washington.edu/mm5rt/domains/nov16.1.33kmlanduse.gif
)
[[1hr ppt]](http://www.atmos.washington.edu/%7Eovens/wxloop.cgi?wrfd4_ti_pcp1+///1)
[[84hr accum precip]](https://a.atmos.washington.edu/~ovens/wxloop.cgi?wrfd4_pcpt+//
84/3)
[[OLR]](https://a.atmos.washington.edu/~ovens/wxloop.cgi?wrfd4_olr+//84/3)
[[850mb T]](http://www.atmos.washington.edu/%7Eovens/wxloop.cgi?wrfd4_ti_850t+///3)
[[2m T]](http://www.atmos.washington.edu/%7Eovens/wxloop.cgi?wrfd4_ti_tsfc+///3)
[[RH]](https://a.atmos.washington.edu/~ovens/wxloop.cgi?wrfd4_ti_rhsfc+///3)
[[SLP]](http://www.atmos.washington.edu/%7Eovens/wxloop.cgi?wrfd4_ti_slp+///3)
[[T/H]](https://a.atmos.washington.edu/mm5rt/rt/load.cgi?latest+YYYYMMDDHH/images_d4
/
keug.th.gif+text+4/3%20km%20Eugene,OR%2044.13N,123.2W)
[[FrzLvl]](https://a.atmos.washington.edu/~ovens/wxloop.cgi?wrfd4_fzlt+//84/3)
[[1hr snow]](http://www.atmos.washington.edu/%7Eovens/wxloop.cgi?wrfd4_ti_snow1+///1
)
[[24hr snow]](http://www.atmos.washington.edu/%7Eovens/wxloop.cgi?wrfd4_ti_snow24+//
```

```
/3)
[[72hr accum snow]](https://a.atmos.washington.edu/~ovens/wxloop.cgi?wrfd4_snowacc+/
/84/3)
[[snow depth]](http://www.atmos.washington.edu/%7Eovens/wxloop.cgi?wrfd4_ti_snodep+/
//3)
[[snow cover]](http://www.atmos.washington.edu/%7Eovens/wxloop.cgi?wrfd4_ti_snocvr+/
//3)
[[E.OR 1hr snow]]([LOOP](https://a.atmos.washington.edu/~ovens/wxloop.cgi?wrfd4_oes_
snowacc+//96/3))
[[Hot-Dry-Windy]](https://a.atmos.washington.edu/~ovens/wxloop.cgi?wrfd4_hdw+//84/3)

WRF-GFS extended runs
[[300mb winds 36km]](https://a.atmos.washington.edu/~ovens/wxloop.cgi?wrfd1_x_300j+/
//3)
[[700mb omega 36km]](https://a.atmos.washington.edu/~ovens/wxloop.cgi?wrfd1_x_500w+/
//3)
[[3hr ppt 36km]](https://a.atmos.washington.edu/~ovens/wxloop.cgi?wrfd1_x_pcp3+///3)
[[180hr accum ppt 36km]](https://a.atmos.washington.edu/~ovens/wxloop.cgi?wrfd1_x_pc
pt+///3)
[[SLP 36km]](https://a.atmos.washington.edu/~ovens/wxloop.cgi?wrfd1_x_slp+///3)
[[water-vapor flux 36km]](https://a.atmos.washington.edu/~ovens/wxloop.cgi?wrfd1_ivt
+//84/3)
[[precipitable WV 36km]](https://a.atmos.washington.edu/~ovens/wxloop.cgi?wrfd1_ti_p
cpw+///3)
[[300mb winds 12km]](https://a.atmos.washington.edu/~ovens/wxloop.cgi?wrfd2_x_300j+/
//3)
[[CAPE 12km]](https://a.atmos.washington.edu/~ovens/wxloop.cgi?wrfd2_x_mcape+///3)
[[3hr snow 12km]](https://a.atmos.washington.edu/~ovens/wxloop.cgi?wrfd2_x_ti_msnow3
+///3)
[[3hr ppt 12km]](https://a.atmos.washington.edu/~ovens/wxloop.cgi?wrfd2_x_pcp3+///3)
[[180hr accum ppt 12km]](https://a.atmos.washington.edu/~ovens/wxloop.cgi?wrfd2_x_pc
pt+///3)

## NOAA Global Systems Laboratory ##

Globe (13 km) [[Experimental FV3 Model Fields]](https://fim.noaa.gov/FV3new/) [[mode
l description]](https://fim.noaa.gov/)
North America (13 km) [[RAP Model Fields -- Experimental]](https://rapidrefresh.noaa
.gov/RAP/) [[model description]](https://rapidrefresh.noaa.gov/)
CONUS (3 km) [[HRRR-NCEP (Operational)]](https://rapidrefresh.noaa.gov/hrrr/HRRR/Wel
come.cgi?dsKey=hrrr_ncep_jet) [[model description]](https://rapidrefresh.noaa.gov/hr
rr/)
DESI [[Dynamic Ensemble-Based Scenarios for IDSS]](https://sites.gsl.noaa.gov/desi/)
   [[description]](https://gsl.noaa.gov/news/introducing-desi-digest)

## NCEP GFS (Northern Hemisphere) forecasts

**Forecast model maps** *[(U. Wisc. AOS Dept.)](http://www.aos.wisc.edu/weather/Mode
ls)* [[basemap]](https://pjbartlein.github.io/UOCWC/html/exercises/UW-GFS-basemap.pn
g)

300mb heights and wind speed
[[00 UTC]](https://pjbartlein.github.io/UOCWC/html/anim/maps/gfs/gfs_nh00_c300.html)
[[06 UTC]](https://pjbartlein.github.io/UOCWC/html/anim/maps/gfs/gfs_nh06_c300.html)
[[12 UTC]](https://pjbartlein.github.io/UOCWC/html/anim/maps/gfs/gfs_nh12_c300.html)
[[18 UTC]](https://pjbartlein.github.io/UOCWC/html/anim/maps/gfs/gfs_nh18_c300.html)


500mb heights, winds and absolute vorticity
[[00 UTC]](https://pjbartlein.github.io/UOCWC/html/anim/maps/gfs/gfs_nh00_c500.html)
[[06 UTC]](https://pjbartlein.github.io/UOCWC/html/anim/maps/gfs/gfs_nh06_c500.html)
[[12 UTC]](https://pjbartlein.github.io/UOCWC/html/anim/maps/gfs/gfs_nh12_c500.html)
[[18 UTC]](https://pjbartlein.github.io/UOCWC/html/anim/maps/gfs/gfs_nh18_c500.html)


700 mb heights, vertical veolocity and winds
[[00 UTC]](https://pjbartlein.github.io/UOCWC/html/anim/maps/gfs/gfs_nh00_c700.html)
[[06 UTC]](https://pjbartlein.github.io/UOCWC/html/anim/maps/gfs/gfs_nh06_c700.html)
[[12 UTC]](https://pjbartlein.github.io/UOCWC/html/anim/maps/gfs/gfs_nh12_c700.html)
[[18 UTC]](https://pjbartlein.github.io/UOCWC/html/anim/maps/gfs/gfs_nh18_c700.html)


850-500mb integrated relative humidity and lifted index
```

```
[[00 UTC]](https://pjbartlein.github.io/UOCWC/html/anim/maps/gfs/gfs_nh00_crhlia.htm
l)
[[06 UTC]](https://pjbartlein.github.io/UOCWC/html/anim/maps/gfs/gfs_nh06_crhlia.htm
l)
[[12 UTC]](https://pjbartlein.github.io/UOCWC/html/anim/maps/gfs/gfs_nh12_crhlia.htm
l)
[[18 UTC]](https://pjbartlein.github.io/UOCWC/html/anim/maps/gfs/gfs_nh18_crhlia.htm
l)

850mb temperature, heights, and winds
[[00 UTC]](https://pjbartlein.github.io/UOCWC/html/anim/maps/gfs/gfs_nh00_c850.html)
[[06 UTC]](https://pjbartlein.github.io/UOCWC/html/anim/maps/gfs/gfs_nh06_c850.html)
[[12 UTC]](https://pjbartlein.github.io/UOCWC/html/anim/maps/gfs/gfs_nh12_c850.html)
[[18 UTC]](https://pjbartlein.github.io/UOCWC/html/anim/maps/gfs/gfs_nh18_c850.html)


Forecast accumulated precipitation and surface pressure
[[00 UTC]](https://pjbartlein.github.io/UOCWC/html/anim/maps/gfs/gfs_nh00_cpres.html
)
[[06 UTC]](https://pjbartlein.github.io/UOCWC/html/anim/maps/gfs/gfs_nh06_cpres.html
)
[[12 UTC]](https://pjbartlein.github.io/UOCWC/html/anim/maps/gfs/gfs_nh12_cpres.html
)
[[18 UTC]](https://pjbartlein.github.io/UOCWC/html/anim/maps/gfs/gfs_nh18_cpres.html
)

## NCEP Ensemble forecasts##

**NCEP (NMC) Ensemble Forecast Products** *[(NOAA ESRL PSD (CDC) Map Room)](https://
www.esrl.noaa.gov/psd/map/images/ens/ens.html)*

*Northern Hemisphere*
[[500mb heights]](https://pjbartlein.github.io/UOCWC/html/anim/maps/ncep_ens/m500z_n
h.html)
[[500mb anomalies]](https://pjbartlein.github.io/UOCWC/html/anim/maps/ncep_ens/z500a
nom_nh.html)
[[500mb spaghetti plots]](https://pjbartlein.github.io/UOCWC/html/anim/maps/ncep_ens
/spag_nh.html)
[[500mb std. dev.]](https://pjbartlein.github.io/UOCWC/html/anim/maps/ncep_ens/std_n
h.html)

*Southern Hemisphere*
[[500mb heights]](https://pjbartlein.github.io/UOCWC/html/anim/maps/ncep_ens/m500z_s
h.html)
[[500mb anomalies]](https://pjbartlein.github.io/UOCWC/html/anim/maps/ncep_ens/z500a
nom_sh.html)
[[500mb spaghetti plots]](https://pjbartlein.github.io/UOCWC/html/anim/maps/ncep_ens
/spag_sh.html)
[[500mb std. dev.]](https://pjbartlein.github.io/UOCWC/html/anim/maps/ncep_ens/std_s
h.html)

<!--
## NCEP GFS & NAM Model Analysis & Forecast maps ##

**Model Analysis and Forecast Maps** *[(Center for Ocean-Land-Atmosphere Studies (CO
LA))](http://wxmaps.org/fcst.php)*
[[Multiple domains including NH, SH, N. Amer, S. Amer, Europe, E. Asia, Austl & N.Z.
, etc.]](http://wxmaps.org/fcst.php)
-->


## NOAA Global Systems Laboratory -- RAP and HRRR (smoke forecasts)##

**Rapid Refresh (RAP) Products**
*[(RAP web page)](https://rapidrefresh.noaa.gov)*
[[RAP plots page]](https://rapidrefresh.noaa.gov/RAP/) (13.5 km resolution, North Am
erica)
[[RAP NA Smoke Model Fields]](https://rapidrefresh.noaa.gov/RAPsmoke/)

**High-Resolution Rapid Refresh (HRRR) Products** *[(HRRR web page)](https://rapidre
fresh.noaa.gov/hrrr/)*
[[HRRR CONUS plots page]](https://rapidrefresh.noaa.gov/hrrr/HRRR/Welcome.cgi?dsKey=
hrrr_ncep_jet) (3 km resolution, CONUS)
```

```
[[HRRR CONUS Smoke Model Fields]](https://rapidrefresh.noaa.gov/hrrr/HRRRsmoke/)

[[RAP and HRRR Smoke Forecast Users Guide]](https://rapidrefresh.noaa.gov/hrrr/HRRRs
moke/HRRR-Smoke_VIIRS_Activefire_user_guide.pdf)
[[VIIRS Active Fire Quick Guide]](https://rapidrefresh.noaa.gov/hrrr/HRRRsmoke/VIIRS
ActiveFireQuickGuide-FinalForm-.pdf)

**NOAA** [[Air-quality forecast guidance]](https://airquality.weather.gov)
*[(NOAA)](https://www.noaa.gov)*.

## Tropical Predictions##
**National Hurricane Center** *[(NHC)](https://www.nhc.noaa.gov/)*
[[Atlantic]](https://www.nhc.noaa.gov/)
[[E. Pacific]](https://www.nhc.noaa.gov/?epac)
[[Central Pacific]](https://www.nhc.noaa.gov/?cpac)
[[Climatology]](https://www.nhc.noaa.gov/climo/)

**Joint Typhoon Warning Center** [(*JTWC*)](https://www.metoc.navy.mil/jtwc/jtwc.htm
l)
[[Western Pacific and Indian Ocean Tropical Warnings]](https://www.metoc.navy.mil/jt
wc/jtwc.html)

**Climate Prediction Center**  [(*CPC*)](https://www.cpc.ncep.noaa.gov/)
[[Weeks 2-3 Global Tropical Hazards Outlook]](https://www.cpc.ncep.noaa.gov/products
/precip/CWlink/ghaz/index.php)
```