

Region Requirements for SREF Products For AWIPS OB7

Yellow: To be added to GRIB files

CONUS – Grid 212 – 40 km

Means

Heights at 1000, 850, 700, 500, 250 mb
U+V at 1000, 850, 700, 500, 250 mb & 10 m
Temperature 850, 700, 500 mb & 2 m
Dew Point (RH) 850, 700, 500 mb & 2 m
QPF at 3, 6, 12 and 24 hour totals
12-hr Snowfall
Sea Level Pressure
Precipitable Water

Spreads

Heights at 1000, 850, 700, 500, 250 mb
Thickness 1000-500 mb
Wind speed at 1000, 850, 700, 500, 250 mb & 10 m
Temperature 850, 700, 500 mb & 2 m
Dew Point (RH) 850, 700, 500 mb & 2 m
QPF at 3, 6, 12 and 24 hour totals
12-hr Snowfall
Sea Level Pressure
Precipitable Water

Probabilistic Fields

3-hr/6-hr QPF	GE .01", .25", .50", 1.0"
12-hr/24-hr QPF	GE 01", .25", .50", 1.0", 2.0"
12-hr Snowfall	GE 1", 4", 8", 12" (have 2.5, 5, 10, 20")
Temperature – 2 m & 850 mb	LE 0°C
10 m Wind	GE 25 kt, 34 kt, 50 kt
CAPE	GE 500, 1000, 2000, 3000, 4000
Lifted Index	LE 0, -4, -8
Surface Visibility	LE 1 mi, 3 mi
Cloud Ceiling	LE 500 ft, 1000 ft, 3000 ft
Probability of precipitation types	(have rain, frozen, & freezing)
6-hr/12-hr/24-hr QPF Best Category	(per Stony Brook EPS – see example in ER email)

Alaska – Grid 216 – 45 km

Mean:

Wind (U and V) – 1000, 850, 700, 500, 300, 250 mb & 10 m

Sea Level Pressure

Geopotential Height – 1000, 850, 700, 500, 300, 250 mb

RH – 850, 700 mb

Temp – 850, 700, 500 mb & 2 m

Dew Point – 2 m

Spread:

Wind (Speed) – 1000, 850, 700, 500, 300, 250 mb & 10 m

Thickness – 1000-500, 1000-850, & 850-700 mb

Sea Level Pressure

Geopotential Height – 1000, 850, 700, 500, 300, 250 mb

RH – 850, 700 mb

Temp – 850, 700, 500 mb & 2 m

Dew Point – 2 m

Threshold Parameters:

3,6,12,24 hr pcpn

GE 0.01, 0.05, 0.1, 0.25, 0.5, 1.0, 1.5, 2.0

12hr snowfall

GE 1, 2, 4, 6, 7.5, 10, 12, 16, 24 (have 2.5, 5, 10, 20")

Prob of precip type rain

Prob of precip type fza

Prob of precip type snow

Prob of precip type sleet

CAPE

GE 500, 1000, 2000, 3000, 4000

LI

LE 0, -2, -4, -6, -8

Wind Speed

GE 25kt, 34kt, 48kt

Hawaii – Grid 243 – 0.4 deg lat/lon

Mean:

Wind (U and V) – 850, 700, 500, 300 mb & 10 m (have 250 mb)

Sea Level Pressure

Geopotential Height – 850, 700, 500, 300 mb (have 250 mb)

RH – 850, 700, 500, 300 mb & surface

Temperature – 850, 700, 500, 300 mb & 2m

Dew Point – 2 m

3-hourly total precip

12-hourly total precip

categorical rain

Spread:

Wind (Speed) – 850, 700, 500, 300 mb & 10 m

Sea Level Pressure

Geopotential Height – 850, 700, 500, 300 mb

RH – 850, 700, 500, 300 mb & surface

Temperature – 850, 700, 500, 300 mb & 2m

Dew Point – 2 m

3-hourly total precip

12-hourly total precip

categorical rain

Probabilistic Parameters:

3,6,12,24 hr pcpn GE 0.01, 0.05, 0.1, 0.25, 0.5, 1.0, 1.5, 2.0

CAPE GE 500, 1000, 2000, 3000

Lifted Index LE 0, -2, -4, -6, -8

Prob of precip type being snow or sleet

(note...not sure if the model resolution makes this relevant since it would only affect a very small area of the big island and maui. i'd be interested to see if it has use before fully committing...)

Wind Speed GE 25kt, 34kt, 48kt