

PHL Synoptic Types

1/1/1948 – 12/31/2015

Philadelphia, PA

Philadelphia Synoptic Typing Work

- DJF: 5 Components, 79.4% Variance explained
 - 35.5%, 18.6%, 12.1%, 8.6%, 4.6%
- MAM: 5 Components, 79.3% Variance explained
 - 32.7%, 18.0%, 15.2%, 8.5%, 4.8%
- JJA: 5 Components, 75.2% Variance explained
 - 29.0%, 16.6%, 16.2%, 8.5%, 5.0%
- SON: 5 Components, 81.0% Variance explained
 - 33.7%, 19.0%, 14.0%, 9.8%, 4.6%

Synoptic Type Descriptions

Winter:

- 1004: Weak Carolinas Low
- 1005: Weak unclosed Upper GL Low
- 1006: Labrador Low
- 1008: Cold Front Passage
- 1009: Strong Mid-West High
- 1010: Weak GL Low, Southwest Flow
- 1011: New England Low
- 1016: Southwest Flow
- 1019: Strong New England Coastal Low
- 1020: Strong Labrador Low
- 1031: GL Low (17,18)
- 1032: Mid-Atlantic Coastal Low (01,02)
- 1033: Off-shore Low w/ Mid-West High (03,12)
- 1034: New England High (13,14)
- 1035: Mid-Atlantic High (07,15)

Spring:

- 2006: Mid-West High
- 2012: Mid-Atlantic Low
- 2017: Carolinas High
- 2018: Weak Pattern
- 2020: Coastal Low
- 2031: Upper New England Coastal Low (05,13,16)
- 2032: Mid-West/GL Low (10,19)
- 2033: Overhead High (04,14)
- 2034: Coastal High, SSW-flow (07,15)
- 2035: Northerly Flow (03,09)
- 2036: Weak South Flow (01,02)
- 2037: Southwest Flow (08,11)

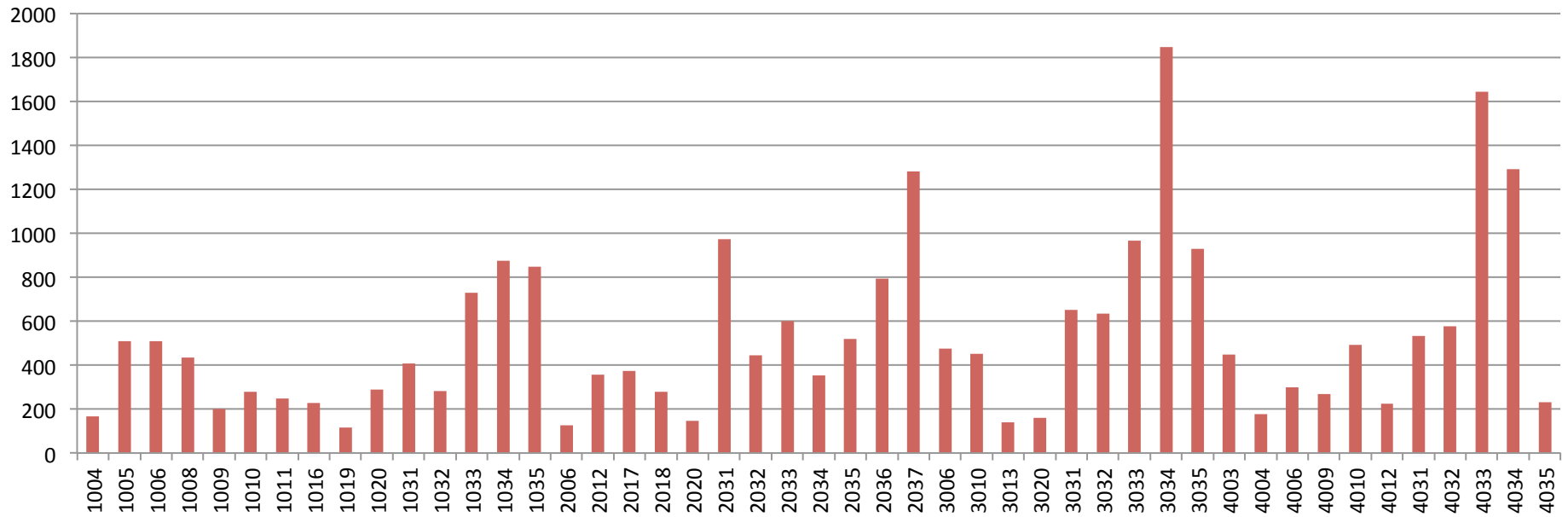
Summer:

- 3006: Hudson's Bay Low, Frontal Activity
- 3010: Weak Southwest Flow
- 3013: New England High
- 3020: North-Northwest Flow
- 3031: Off-shore High (09,12)
- 3032: Weak Pattern (02,03,11)
- 3033: New England Low (04,07,08,15,19)
- 3034: Southwest Flow (14,16,17)
- 3035: Overhead High (01,05,18)

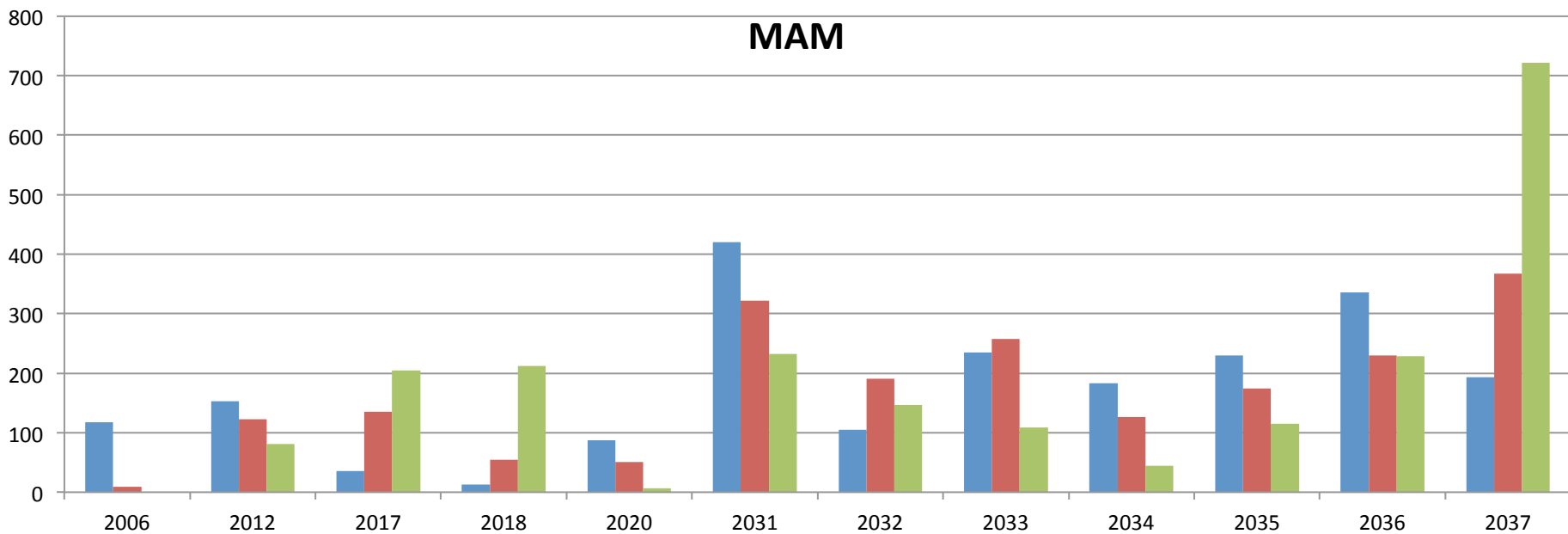
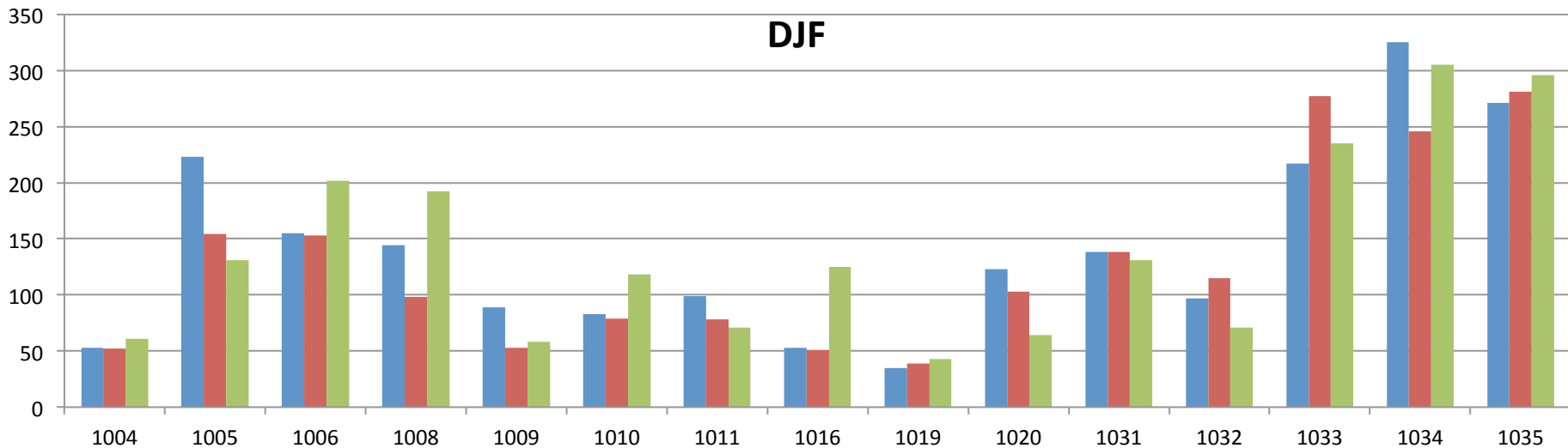
Autumn:

- 4003: Southwest Flow
- 4004: Weak Pattern
- 4006: Western PA High, NE-flow
- 4009: Cold Front Passage
- 4010: New England High
- 4012: Carolinas High, E-flow
- 4031: New England Low (13,19)
- 4032: GL Low (08,11)
- 4033: Overhead High (01,02,17,18)
- 4034: Northwest Flow (05,14,15,16)
- 4035: Mid-Atlantic Coastal Low (07,20)

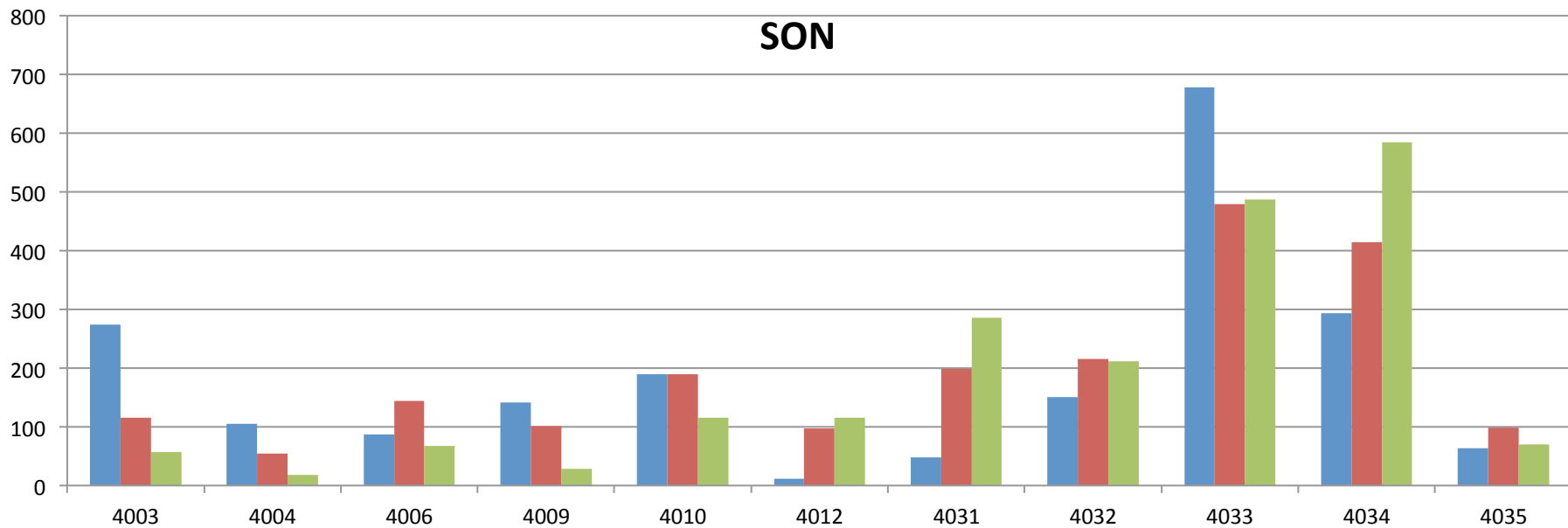
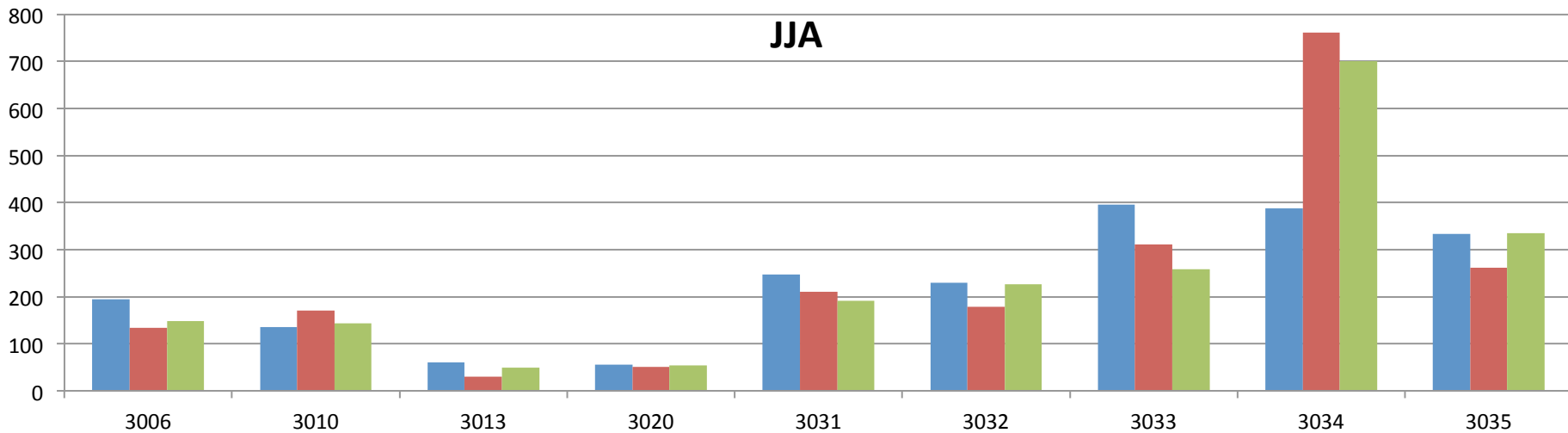
Synoptic Type Frequencies



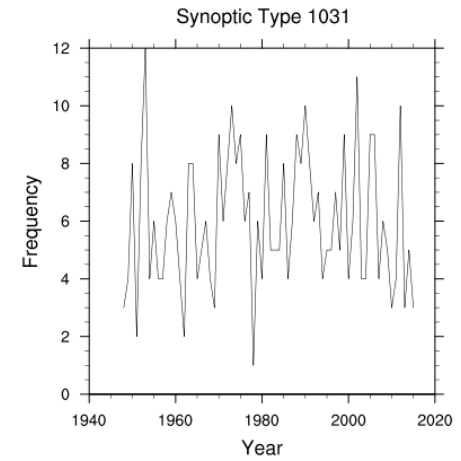
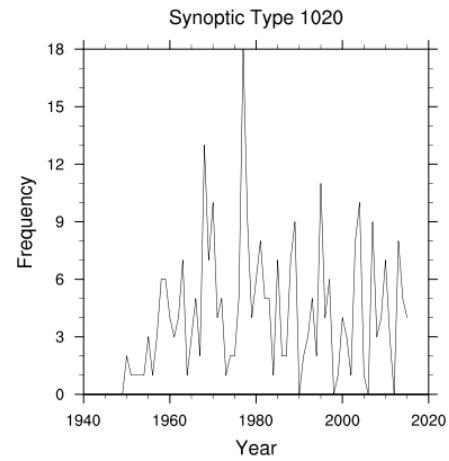
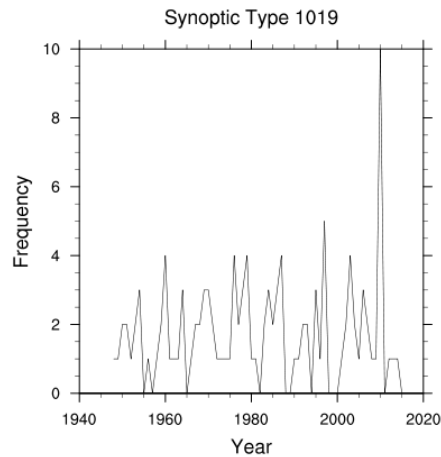
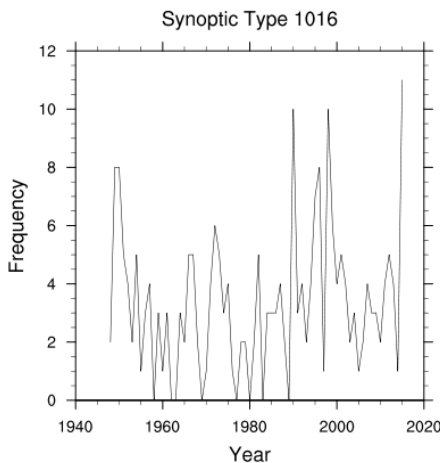
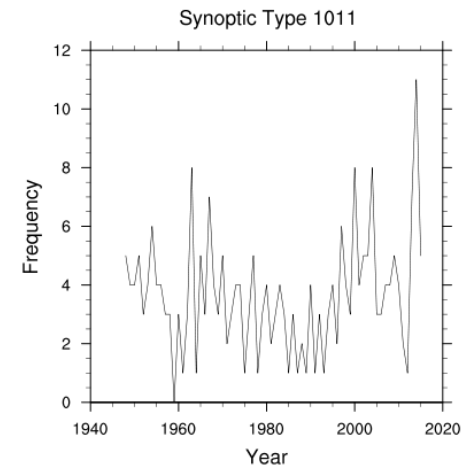
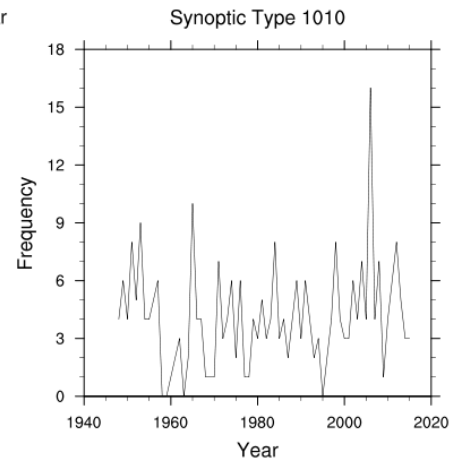
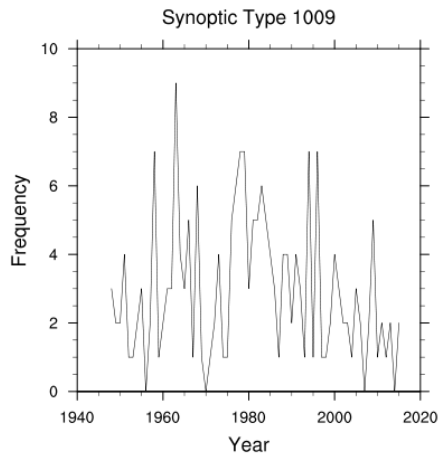
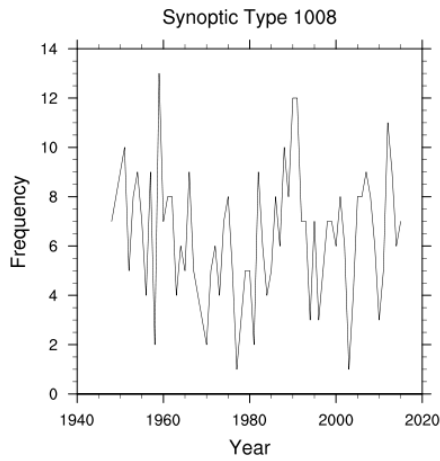
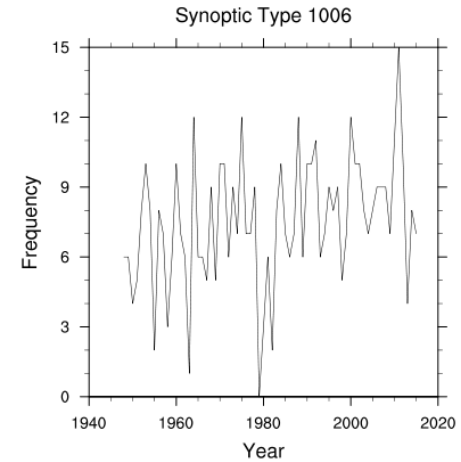
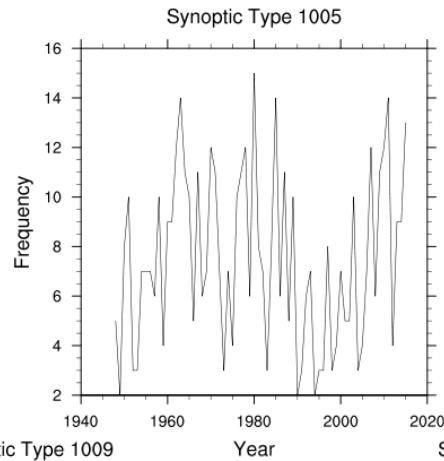
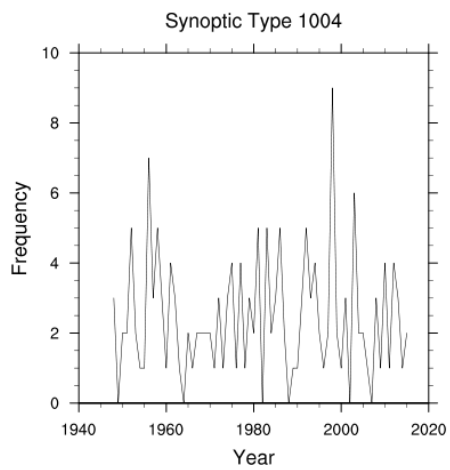
Synoptic Frequency by Month



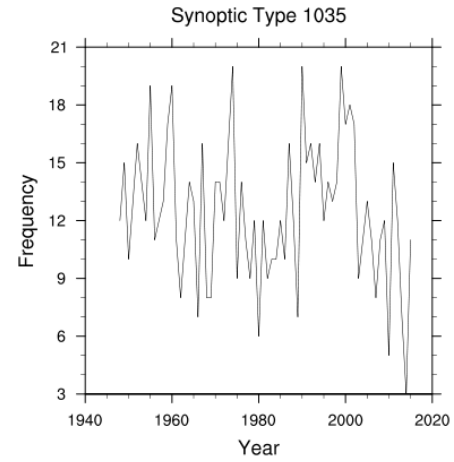
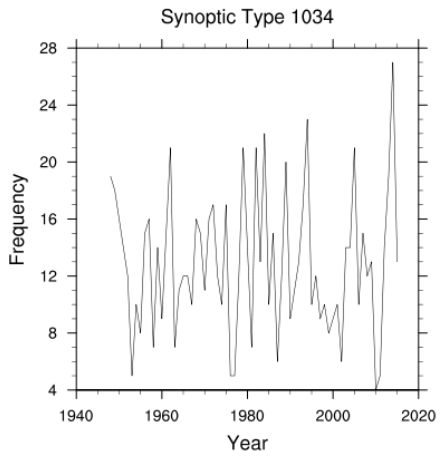
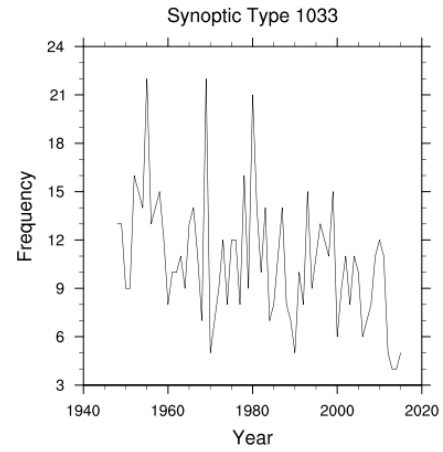
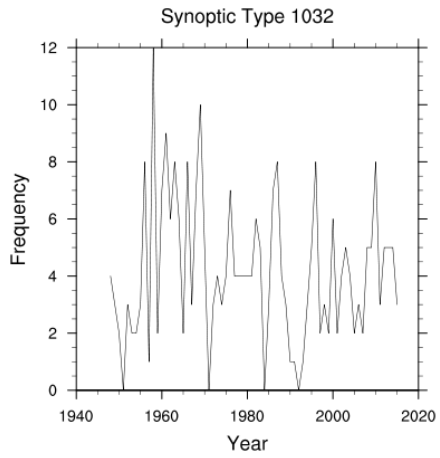
Synoptic Frequency by Month



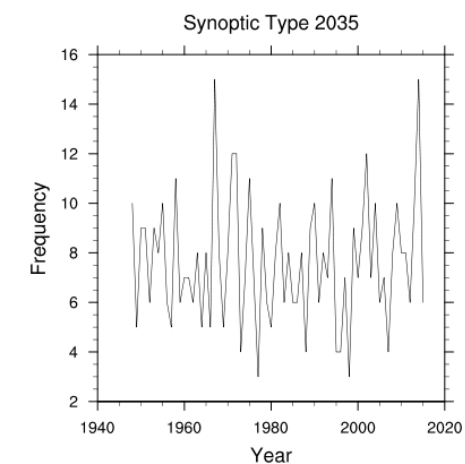
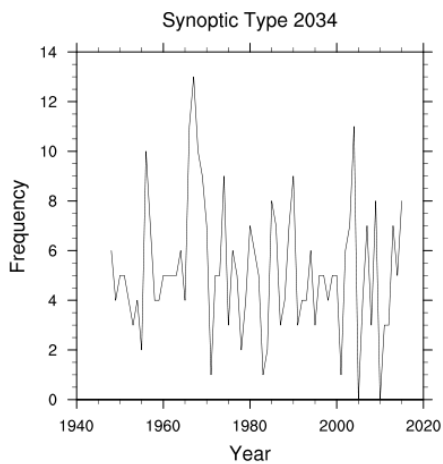
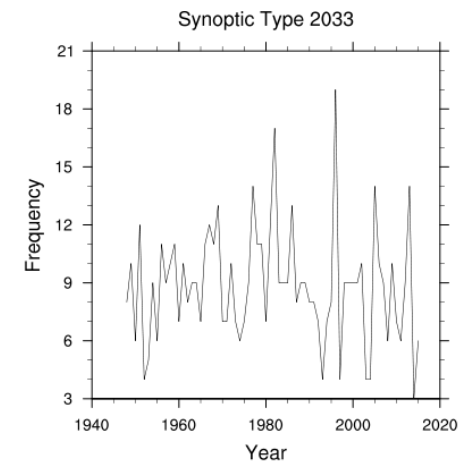
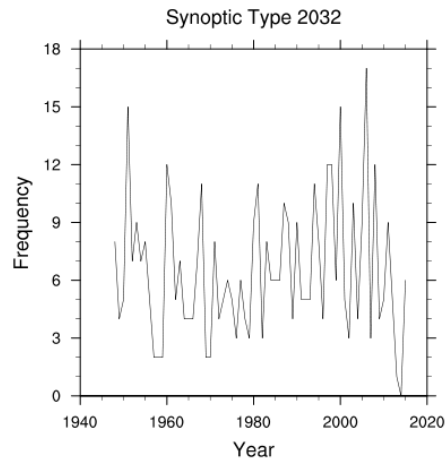
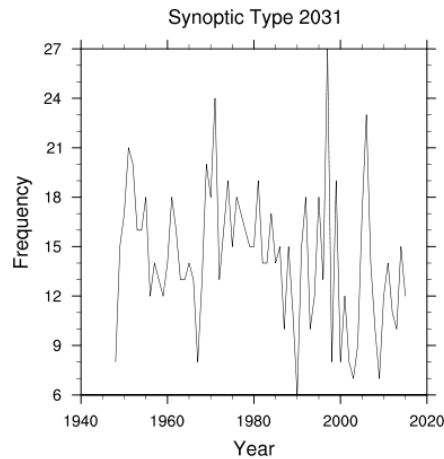
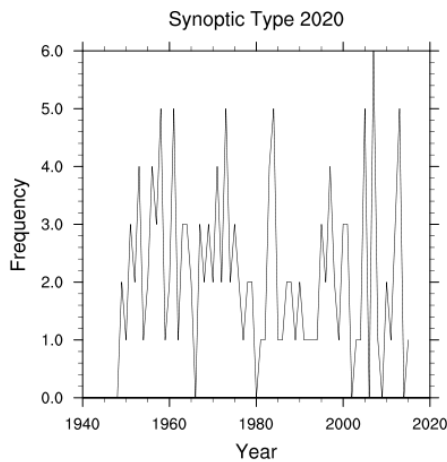
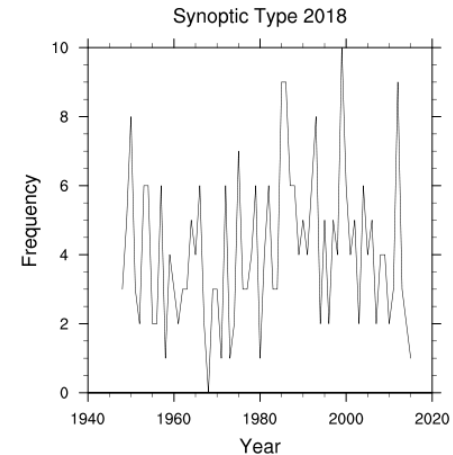
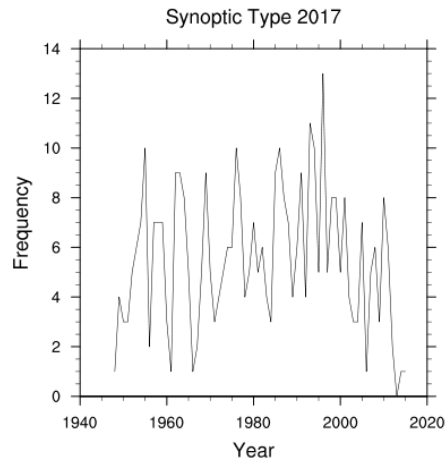
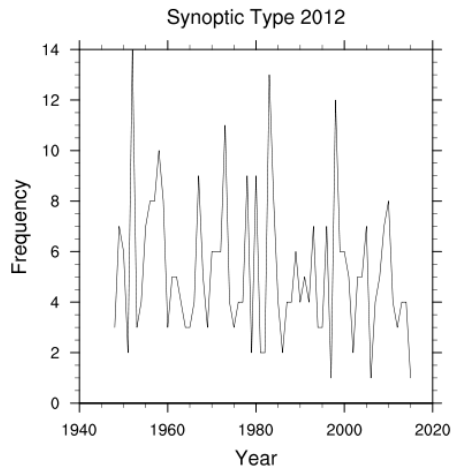
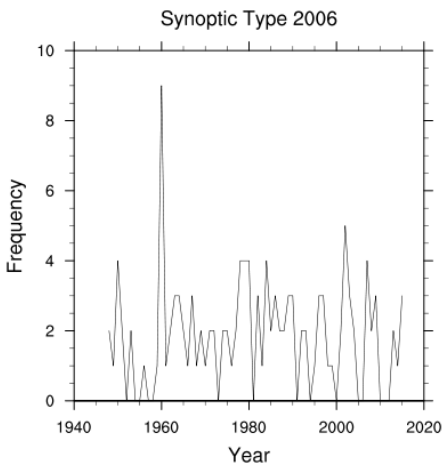
Winter Synoptic Type Time Series



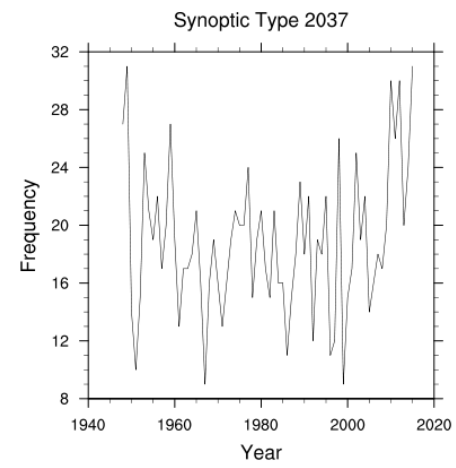
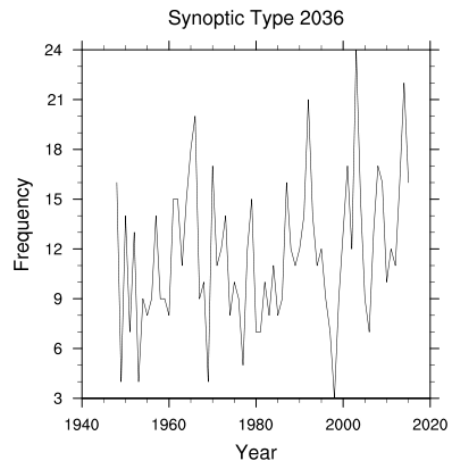
Winter Synoptic Type Time Series



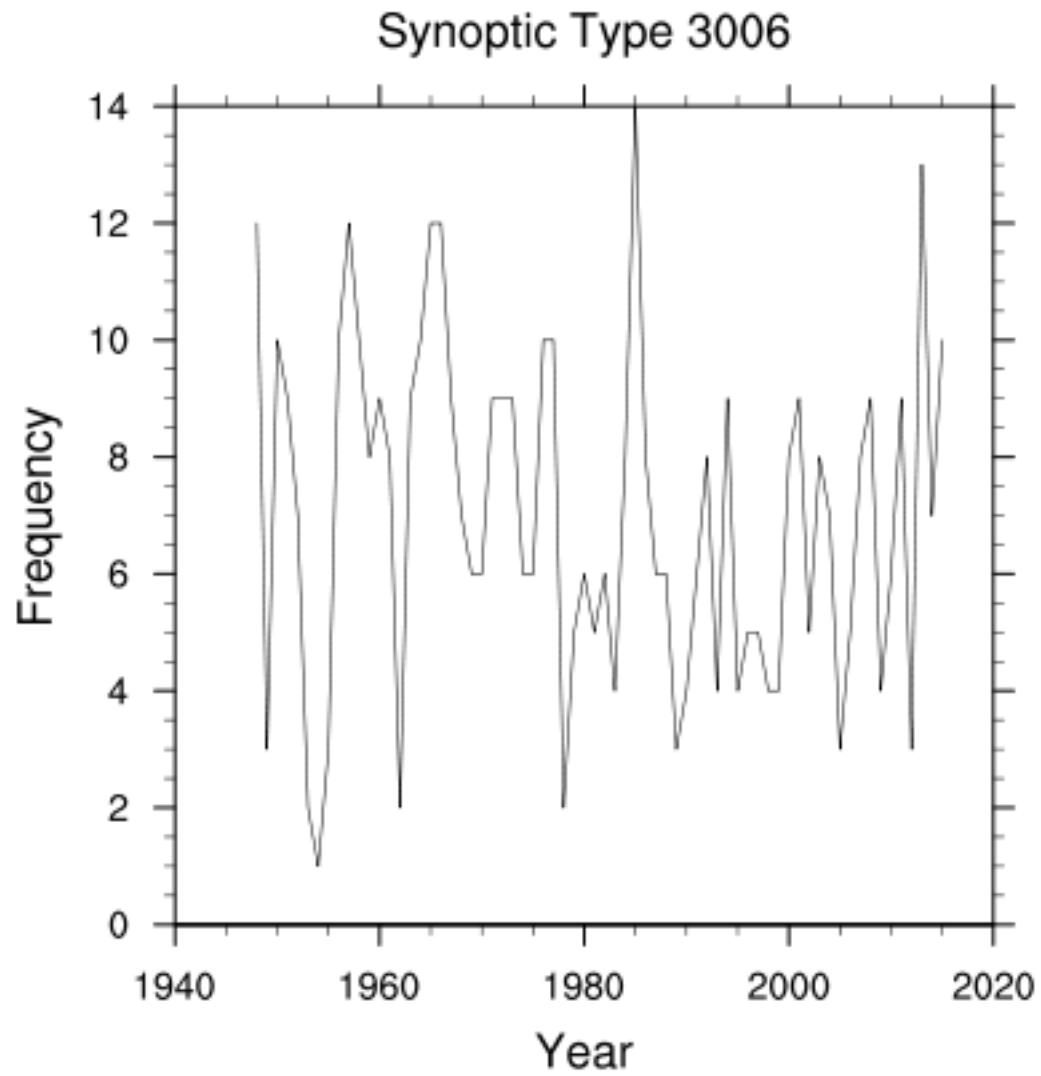
Spring Synoptic Type Time Series



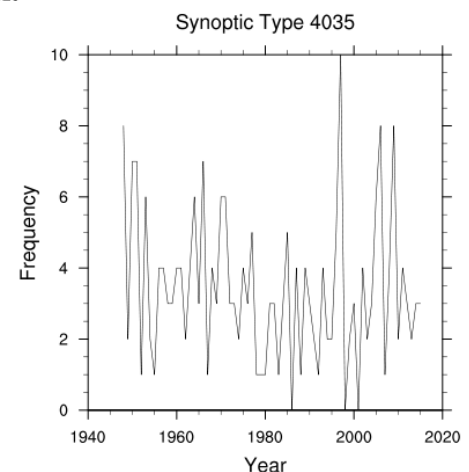
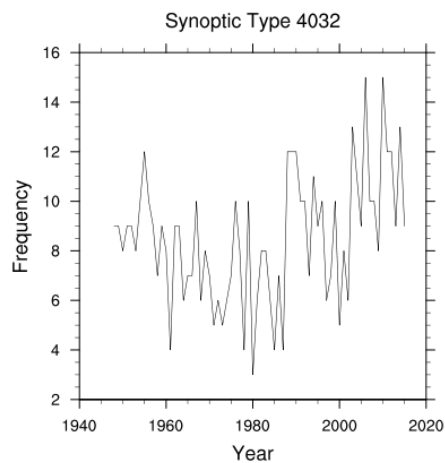
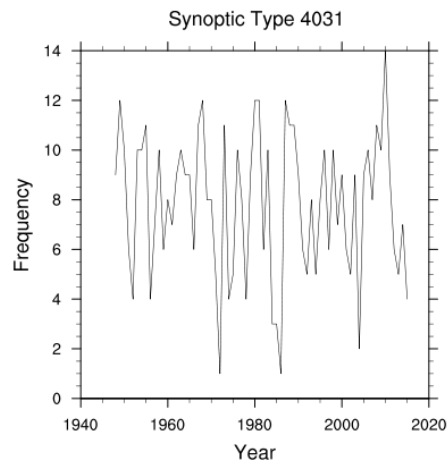
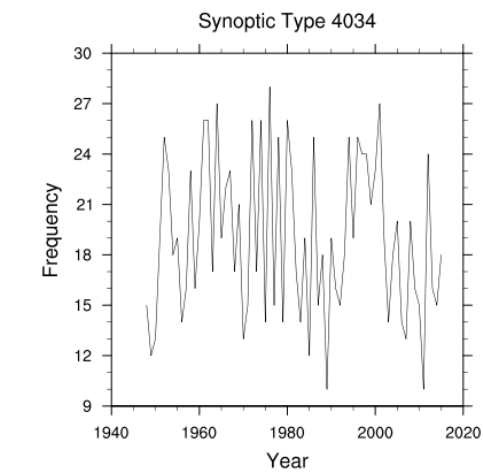
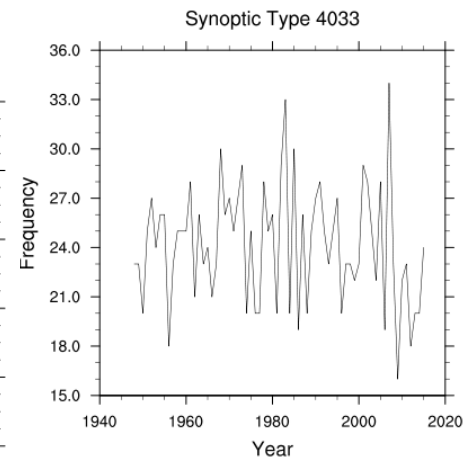
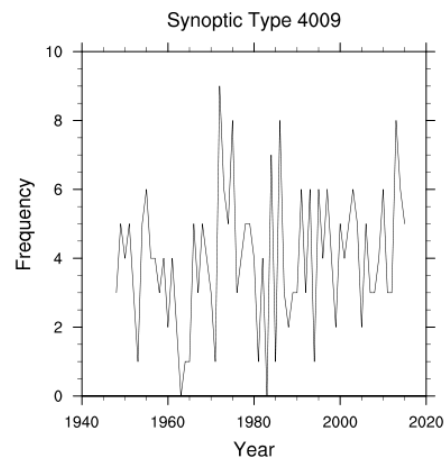
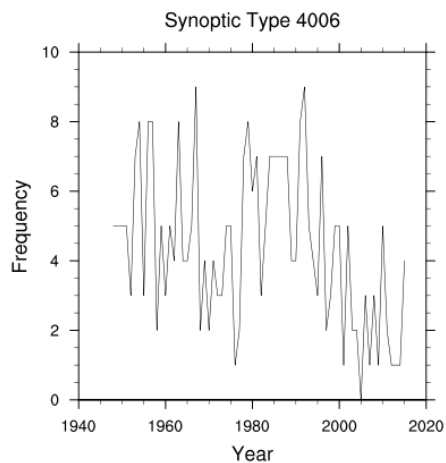
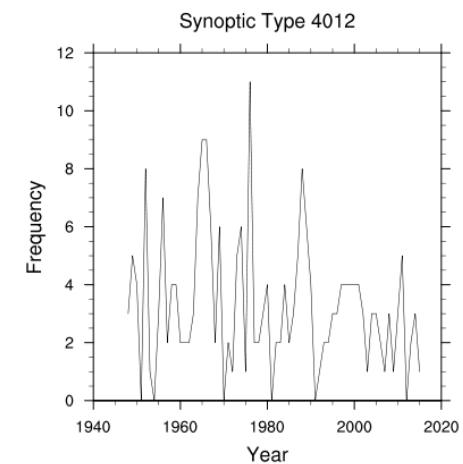
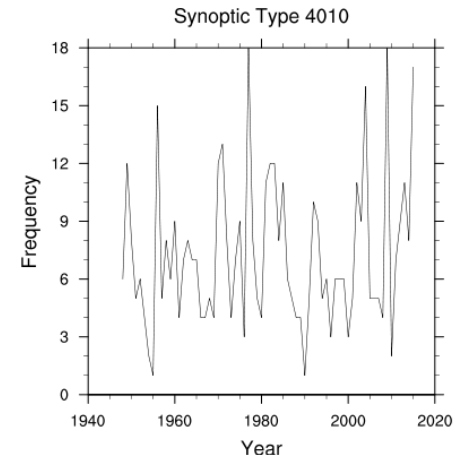
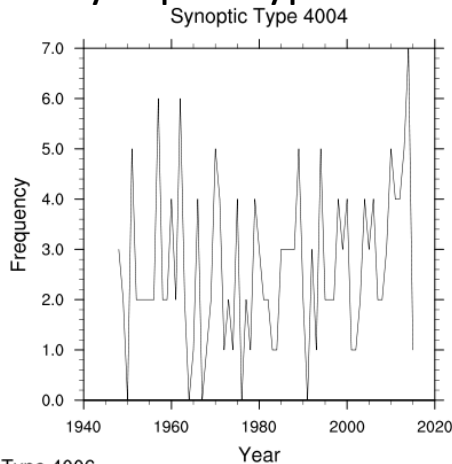
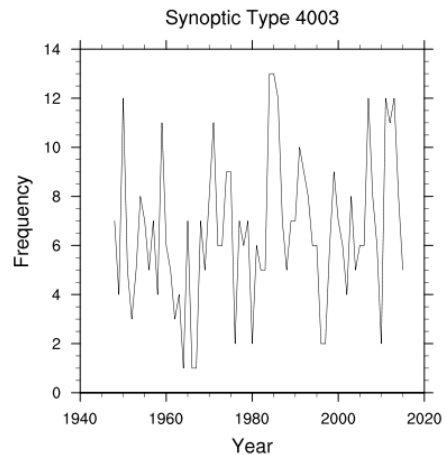
Spring Synoptic Type Time Series



Summer Synoptic Type Time Series

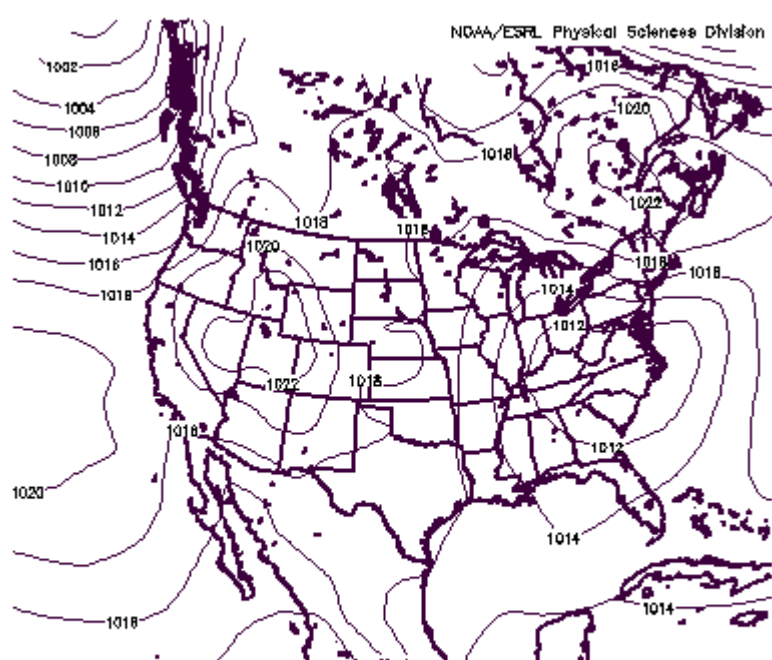


Autumn Synoptic Type Time Series

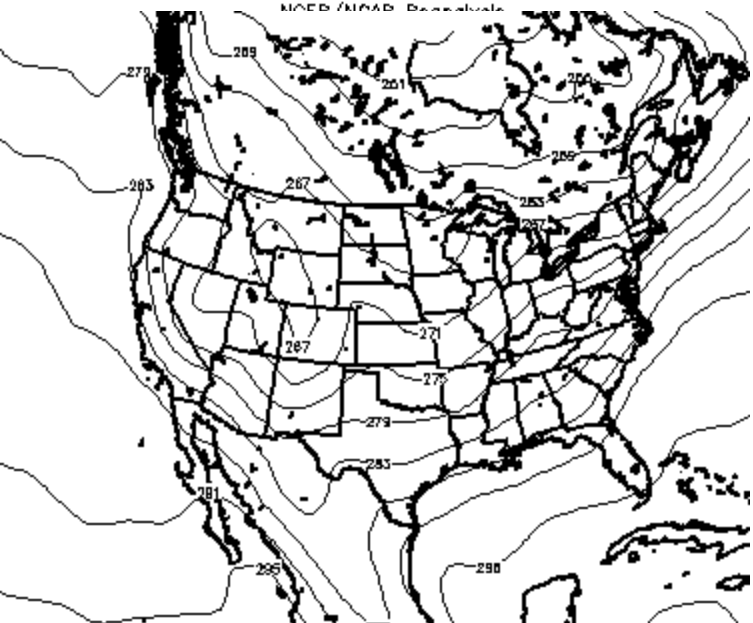


Winter (DJF) Synoptic Types

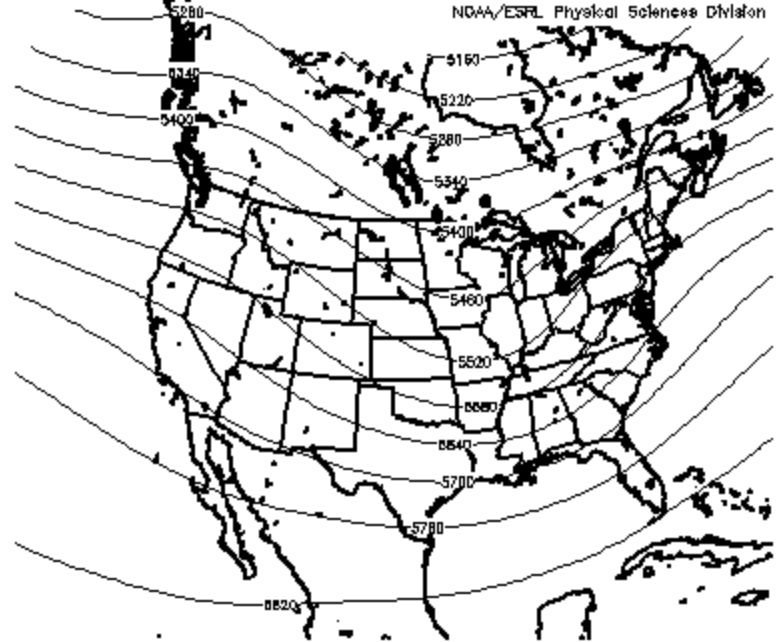
1004



Sea Level Pressure (mb) Composite Mean
Synoptic Type 1004

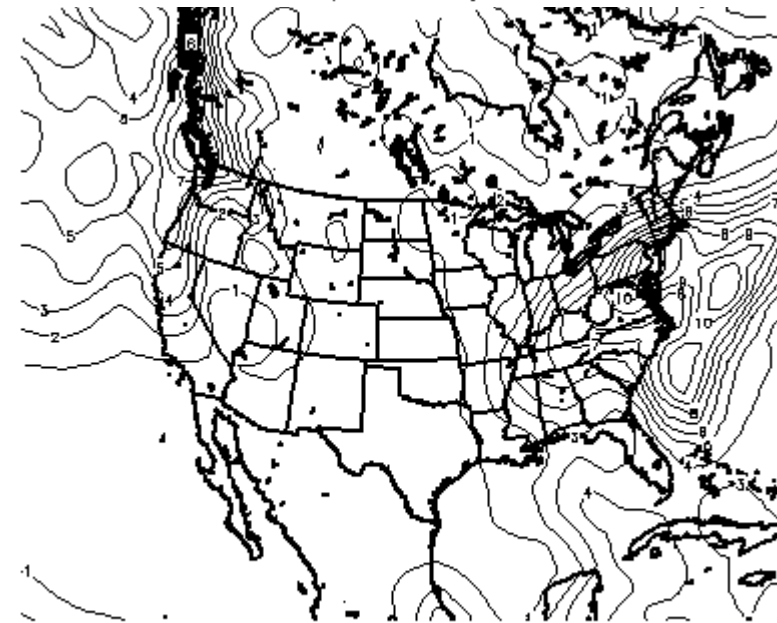


Surface Air Temperature (K) Composite Mean
Synoptic Type 1004



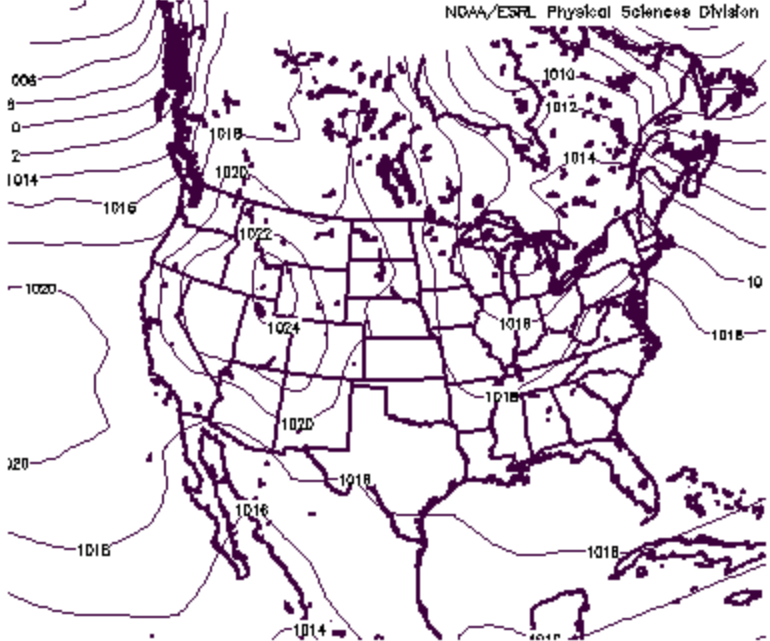
500mb Geopotential Height (m) Composite Mean
Synoptic Type 1004

NCEP/NCAR Reanalysis



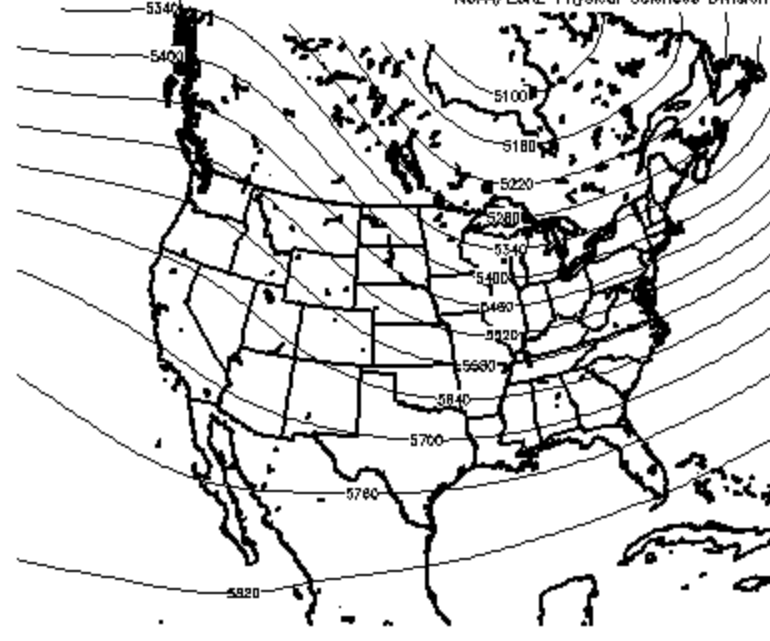
Surface Precipitation Rate (mm/day) Composite Mean
Synoptic Type 1004

1005



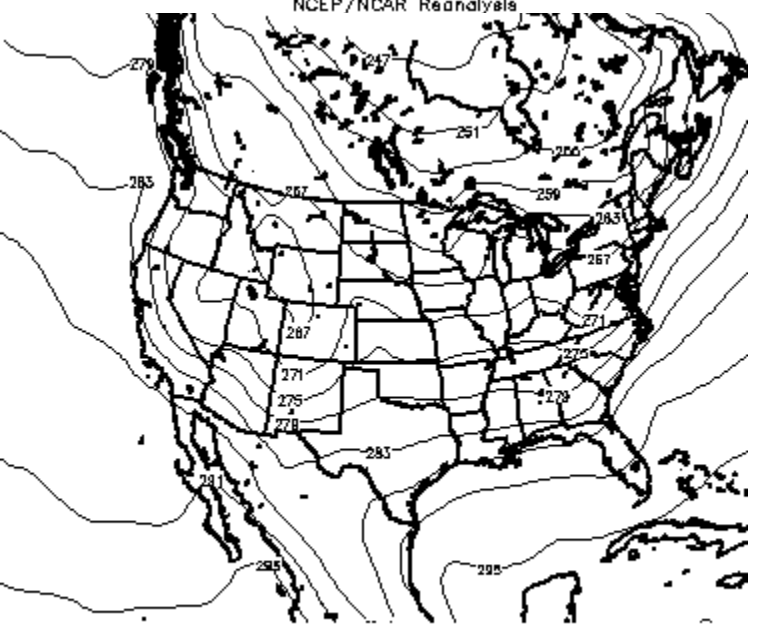
Sea Level Pressure (mb) Composite Mean
Synoptic Type 1005

NCEP/NCAR Reanalysis

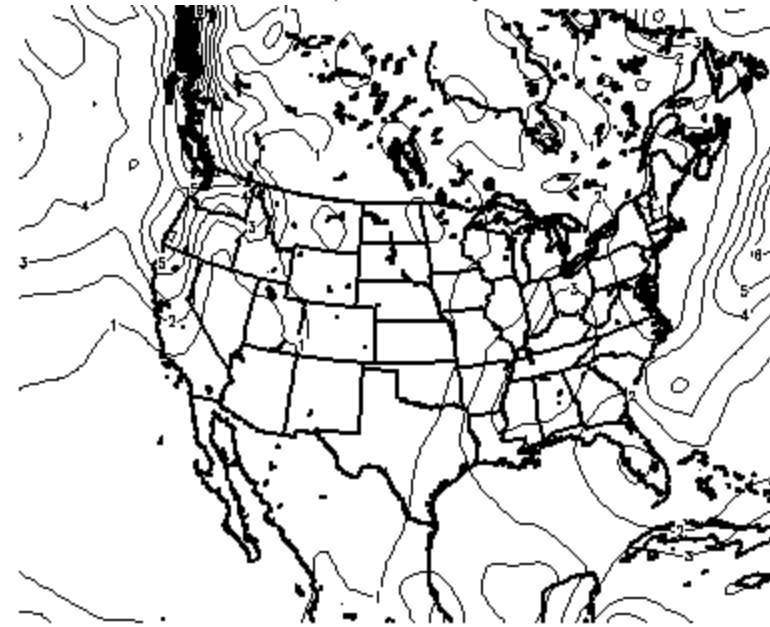


500mb Geopotential Height (m) Composite Mean
Synoptic Type 1005

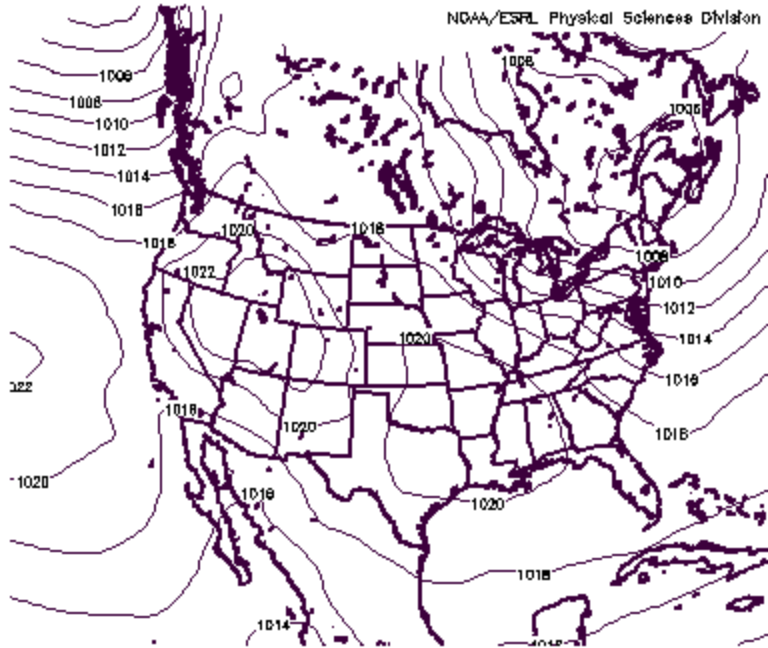
NCEP/NCAR Reanalysis



Surface Air Temperature (K) Composite Mean
Synoptic Type 1005

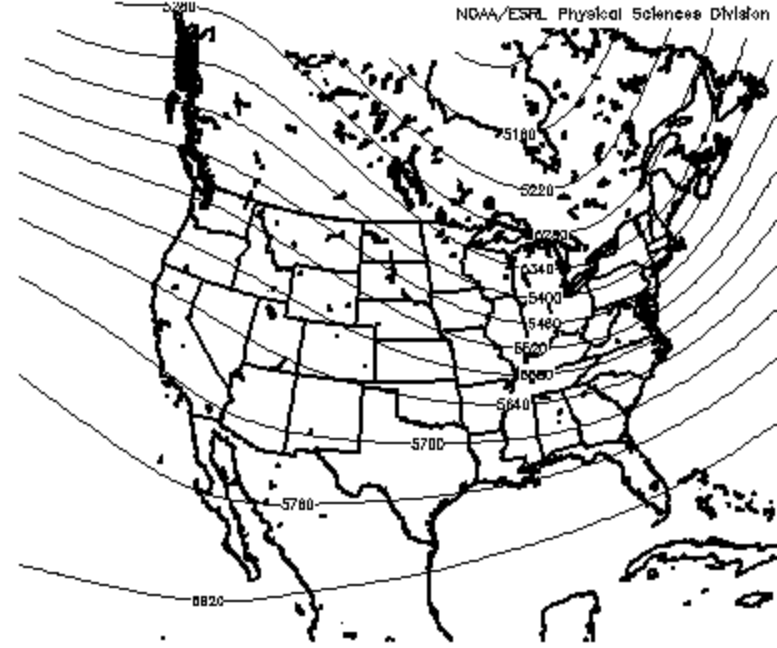


Surface Precipitation Rate (mm/day) Composite Mean
Synoptic Type 1005

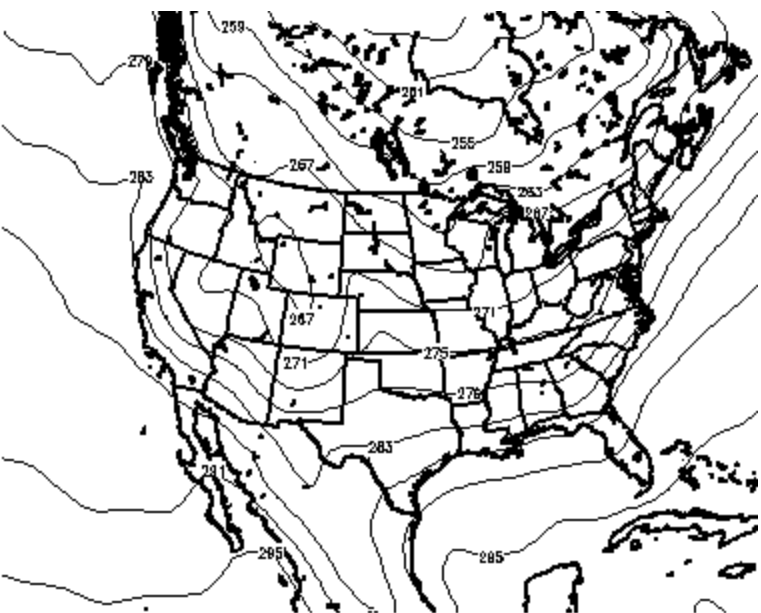


Sea Level Pressure (mb) Composite Mean
Synoptic Type 1006
NCEP/NCAR Reanalysis

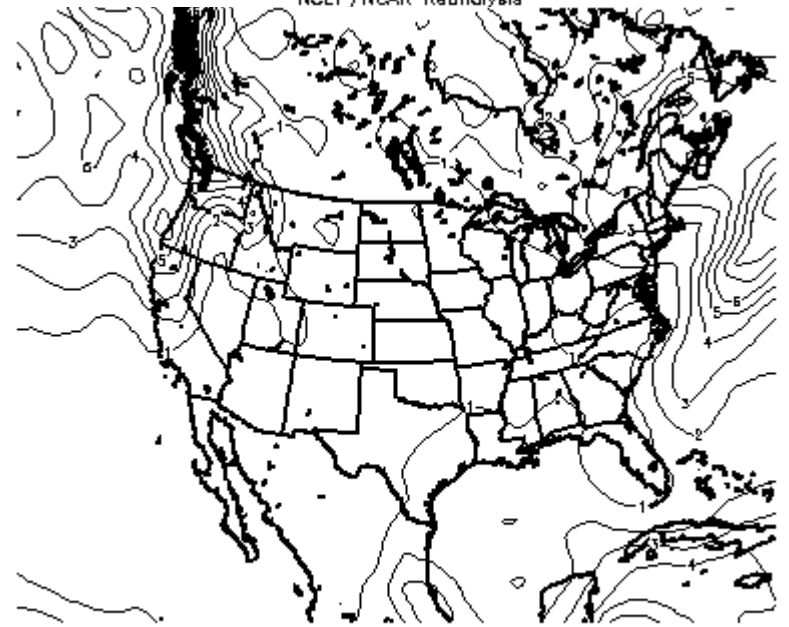
1006



500mb Geopotential Height (m) Composite Mean
Synoptic Type 1006
NCEP/NCAR Reanalysis

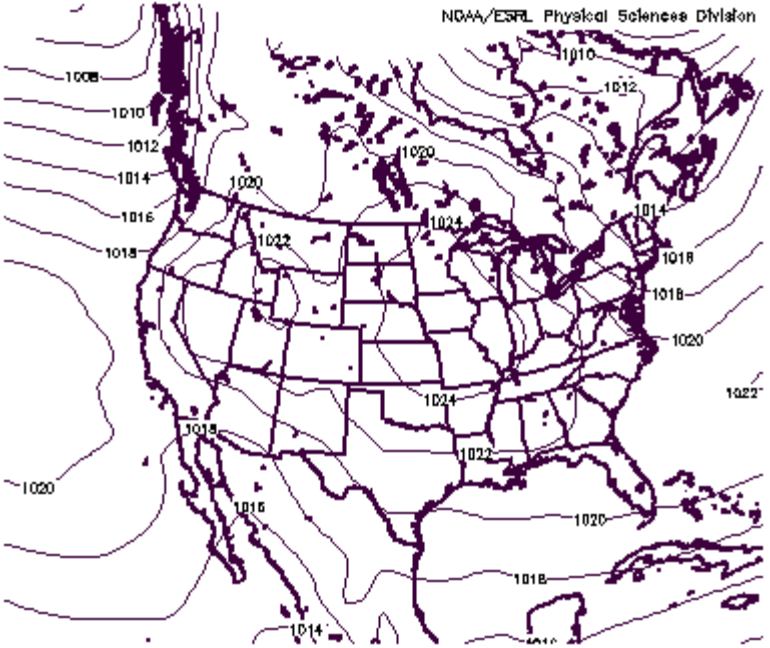


Surface Air Temperature (K) Composite Mean
Synoptic Type 1006



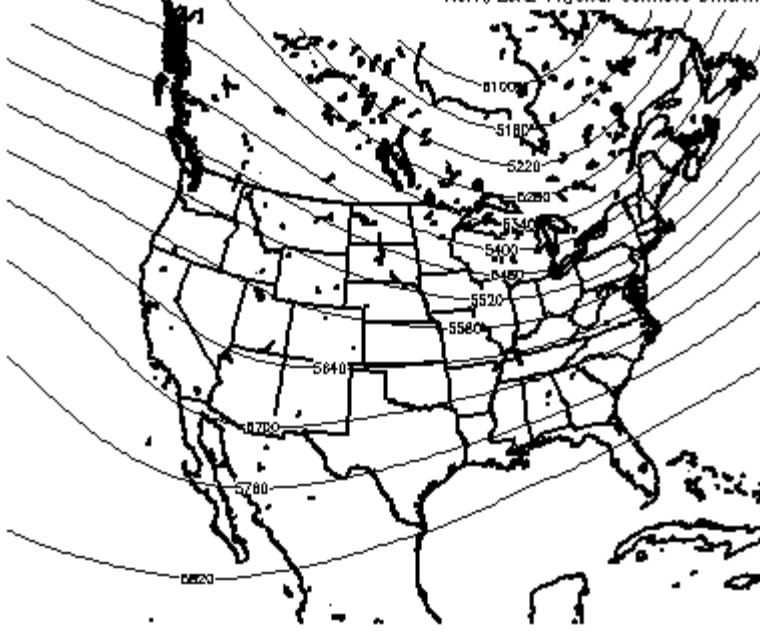
Surface Precipitation Rate (mm/day) Composite Mean
Synoptic Type 1006

1008



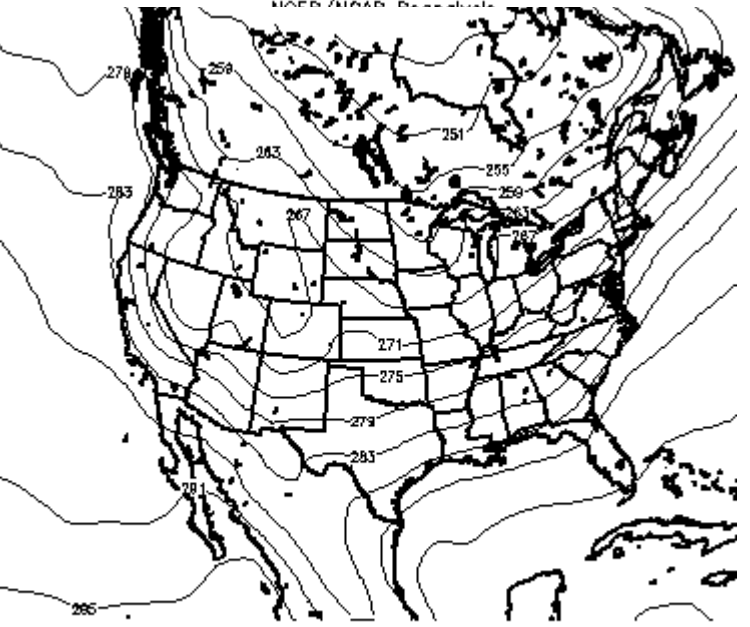
Sea Level Pressure (mb) Composite Mean
Synoptic Type 1008

NOAA/ESRL Physical Sciences Division

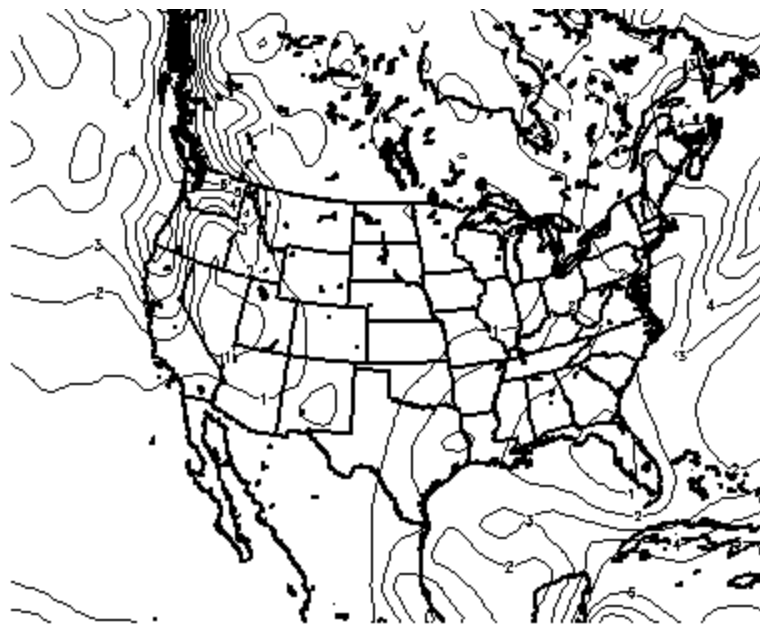


500mb Geopotential Height (m) Composite Mean
Synoptic Type 1008

NCEP/NCAR Reanalysis

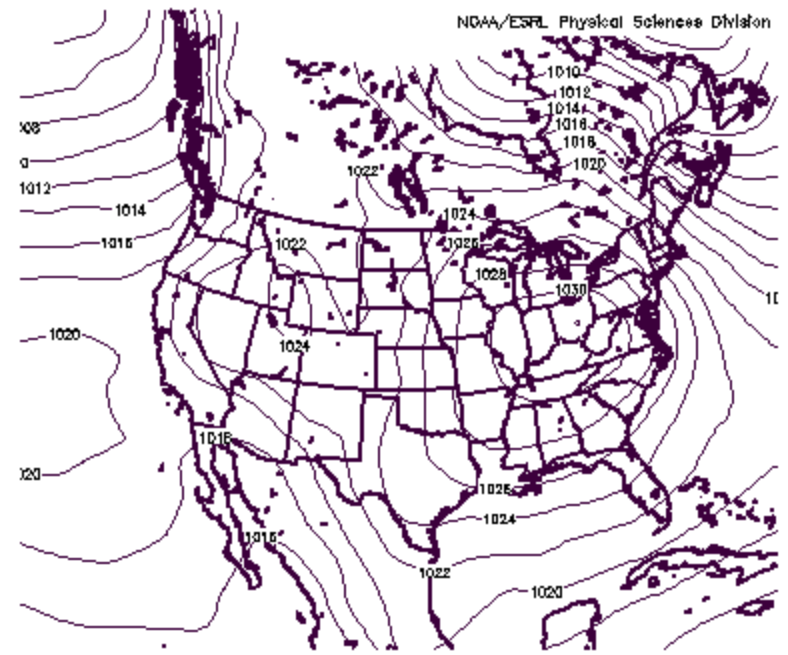


Surface Air Temperature (K) Composite Mean
Synoptic Type 1008



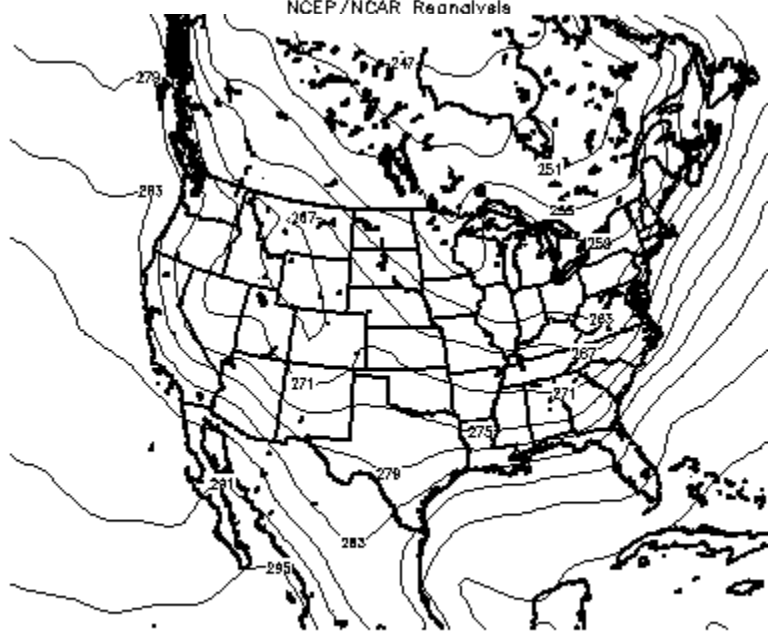
Surface Precipitation Rate (mm/day) Composite Mean
Synoptic Type 1008

1009

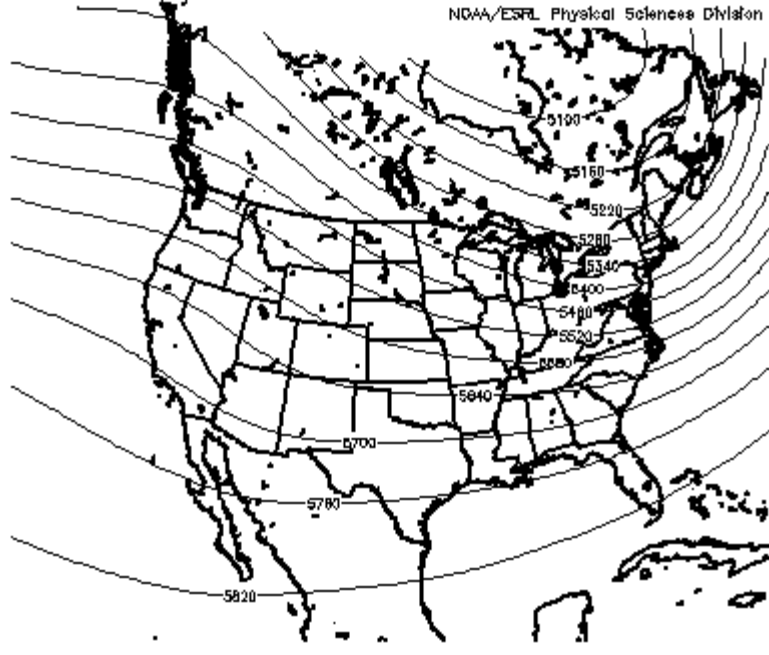


Sea Level Pressure (mb) Composite Mean
Synoptic Type 1009

NCEP/NCAR Reanalysis

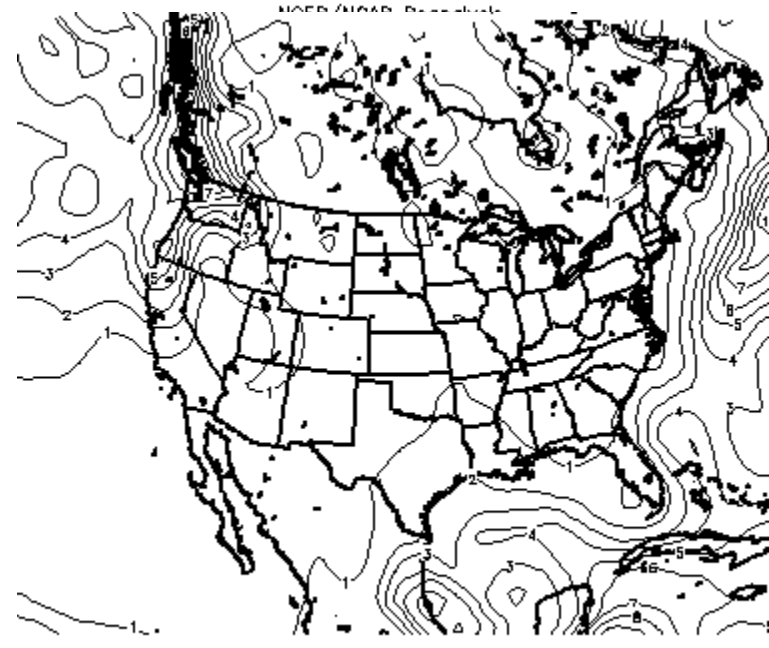


Surface Air Temperature (K) Composite Mean
Synoptic Type 1009



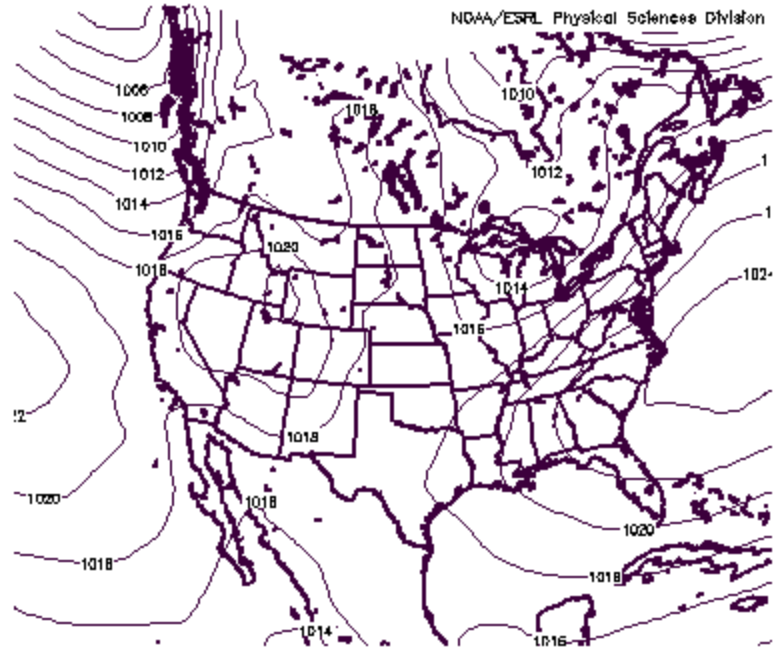
500mb Geopotential Height (m) Composite Mean
Synoptic Type 1009

NCEP/NCAR Reanalysis

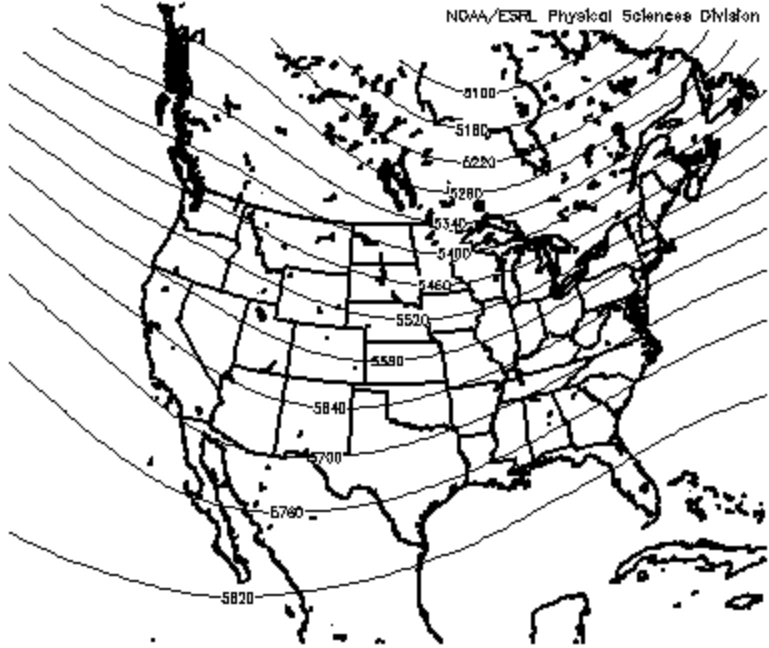


Surface Precipitation Rate (mm/day) Composite Mean
Synoptic Type 1009

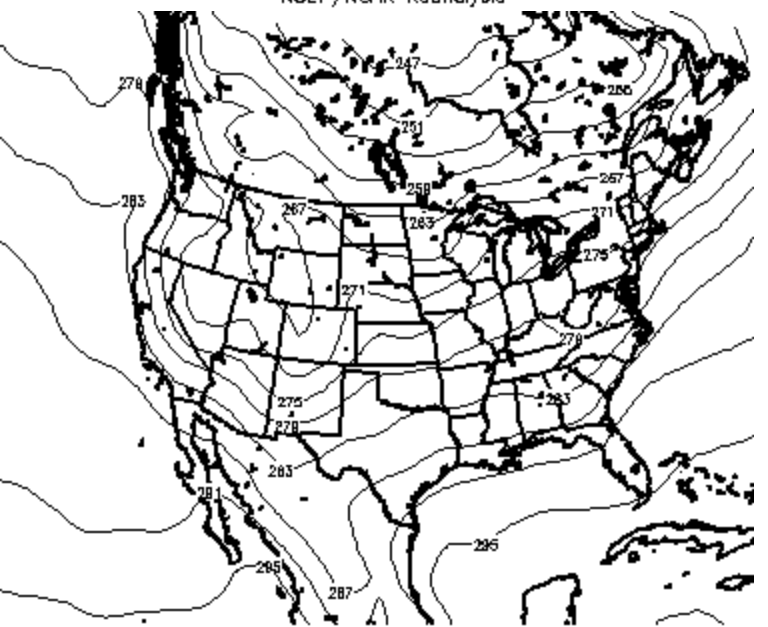
1010



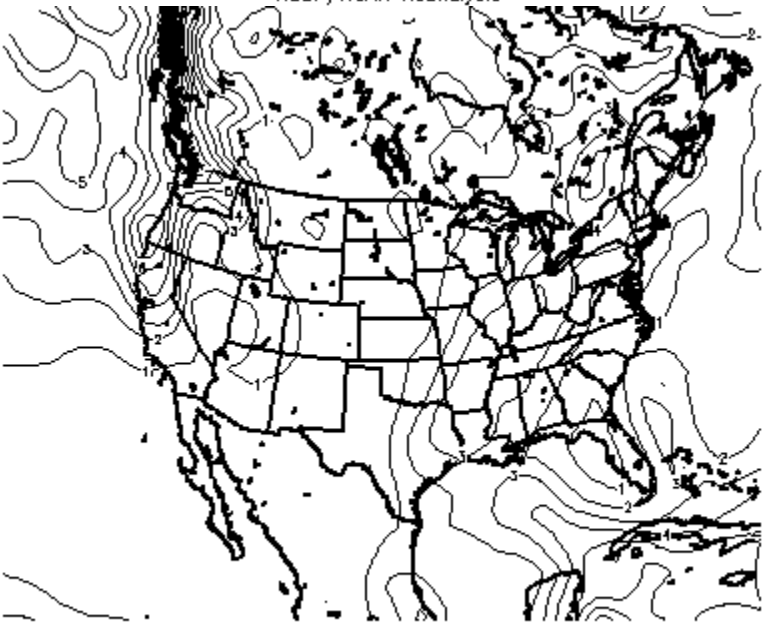
Sea Level Pressure (mb) Composite Mean
Synoptic Type 1010
NCEP/NCAR Reanalysis



500mb Geopotential Height (m) Composite Mean
Synoptic Type 1010
NCEP/NCAR Reanalysis

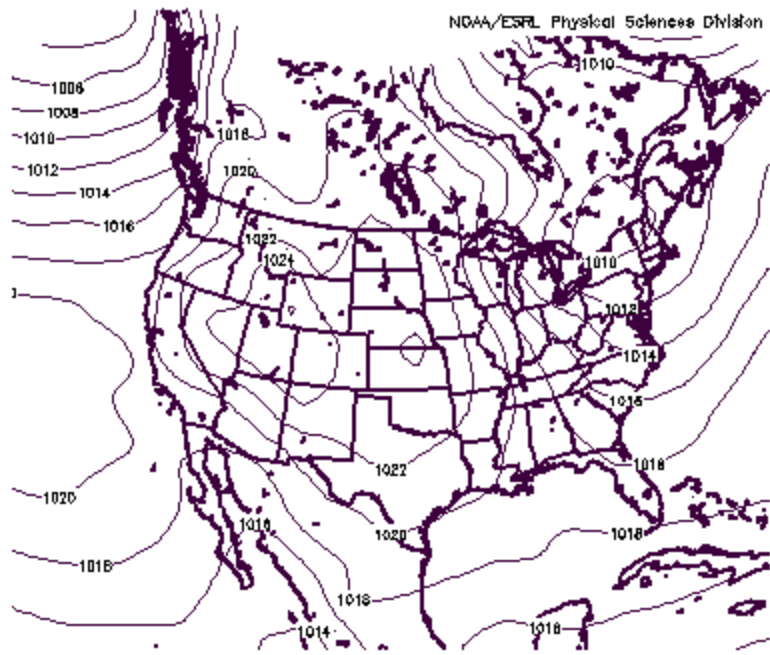


Surface Air Temperature (K) Composite Mean
Synoptic Type 1010



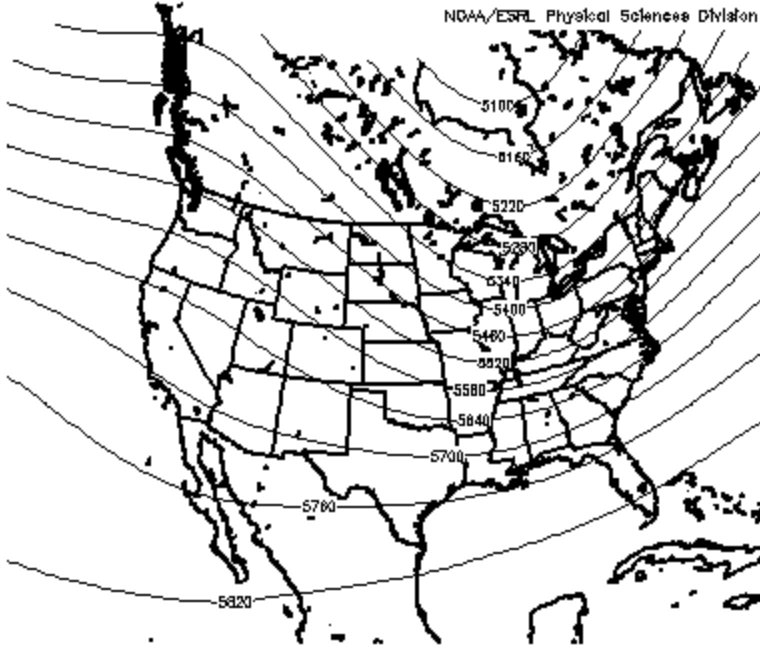
Surface Precipitation Rate (mm/day) Composite Mean
Synoptic Type 1010

1011



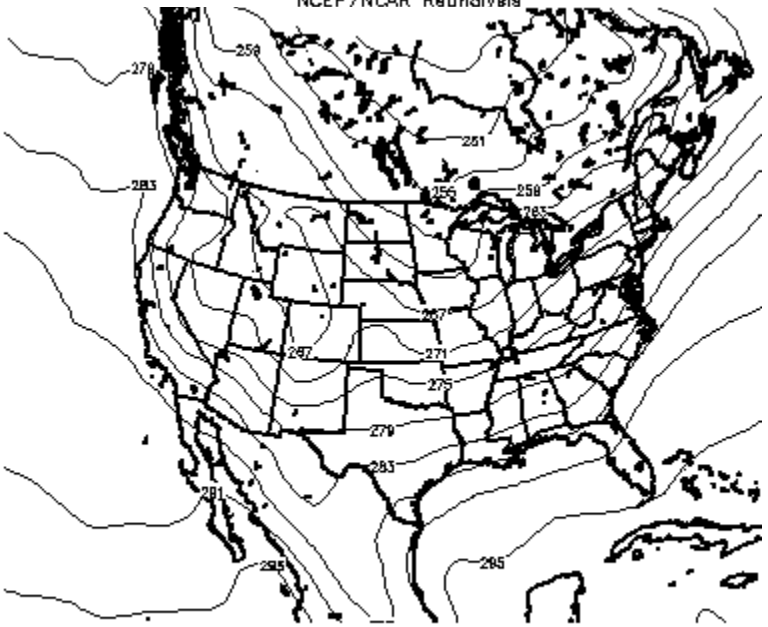
Sea Level Pressure (mb) Composite Mean
Synoptic Type 1011

NCEP/NCAR Reanalyses

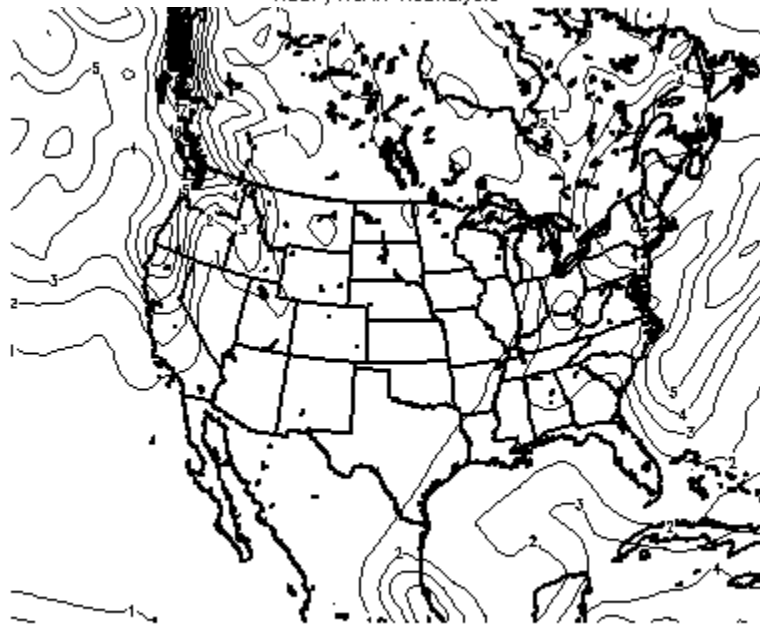


500mb Geopotential Height (m) Composite Mean
Synoptic Type 1011

NCEP/NCAR Reanalyses

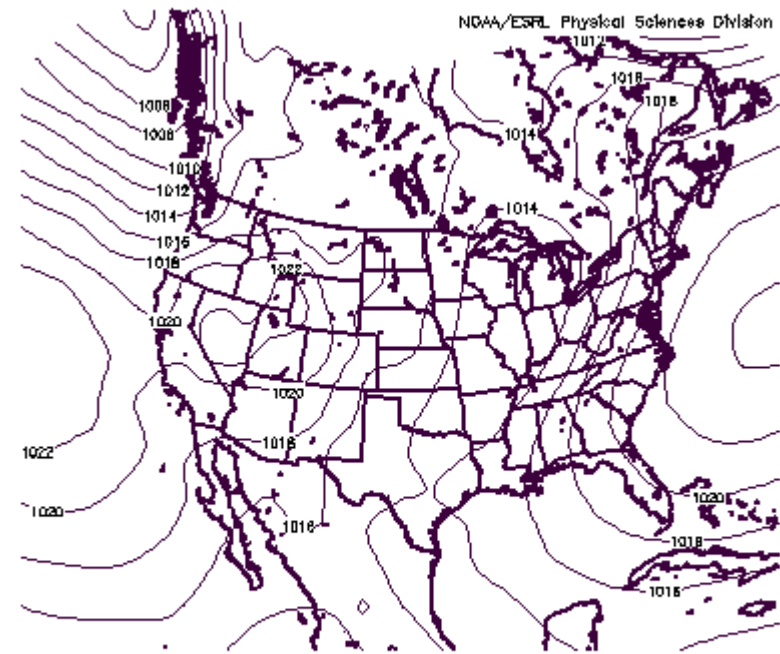


Surface Air Temperature (K) Composite Mean
Synoptic Type 1011

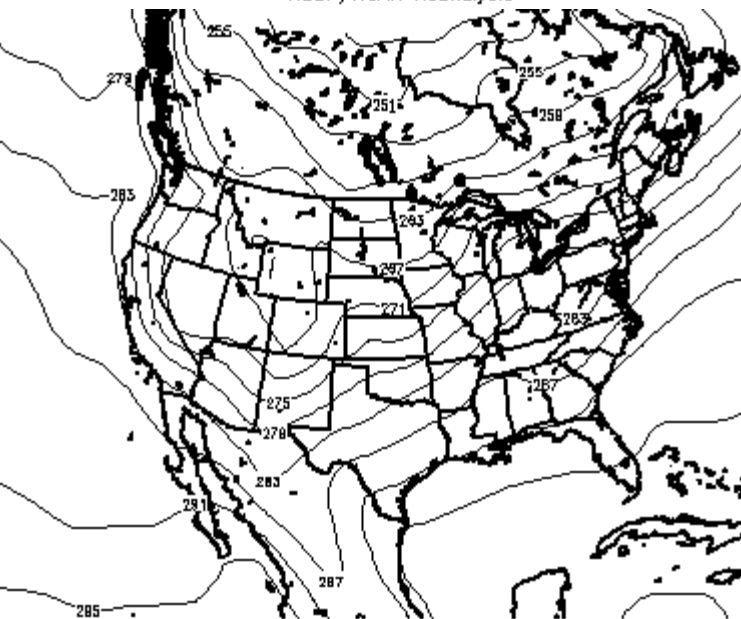


Surface Precipitation Rate (mm/day) Composite Mean
Synoptic Type 1011

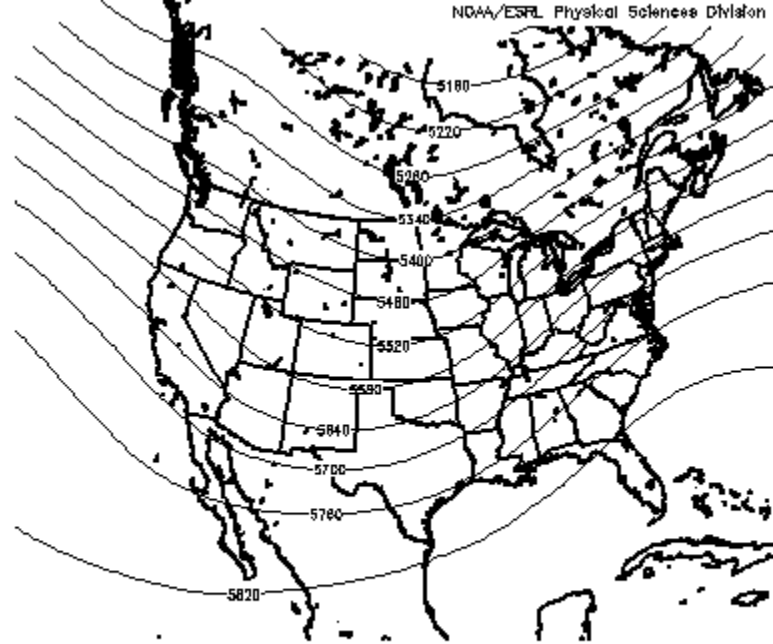
1016



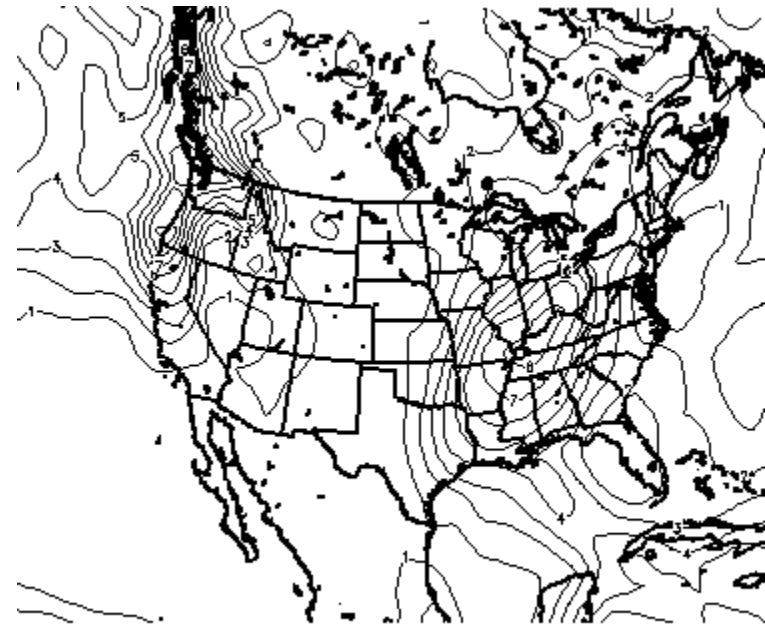
Sea Level Pressure (mb) Composite Mean
Synoptic Type 1016
NCEP/NCAR Reanalyses



Surface Air Temperature (K) Composite Mean
Synoptic Type 1016
NCEP/NCAR Reanalyses

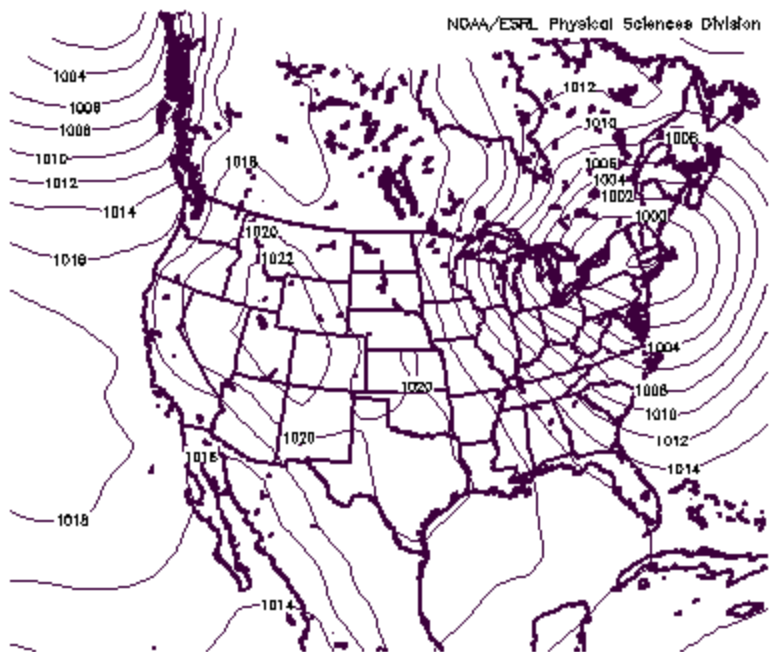


500mb Geopotential Height (m) Composite Mean
Synoptic Type 1016
NCEP/NCAR Reanalyses



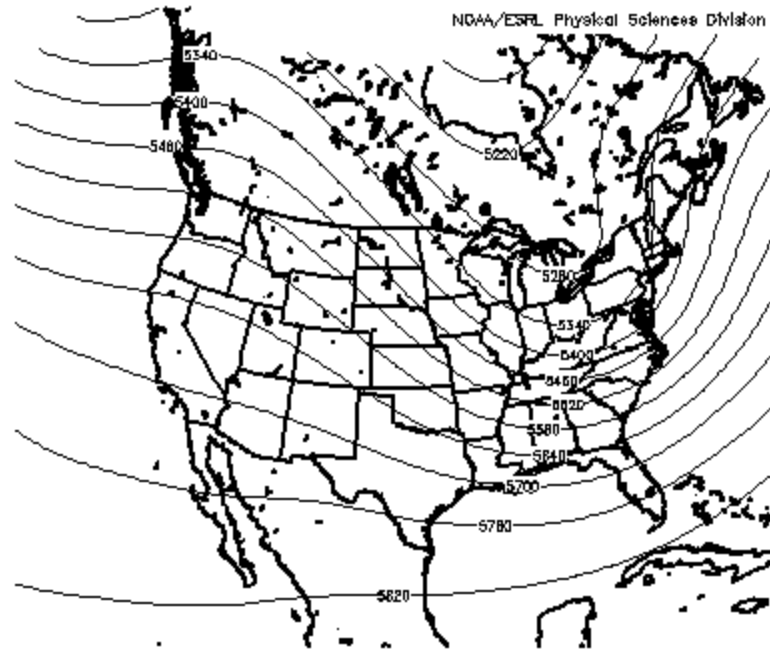
Surface Precipitation Rate (mm/day) Composite Mean
Synoptic Type 1016
NCEP/NCAR Reanalyses

1019



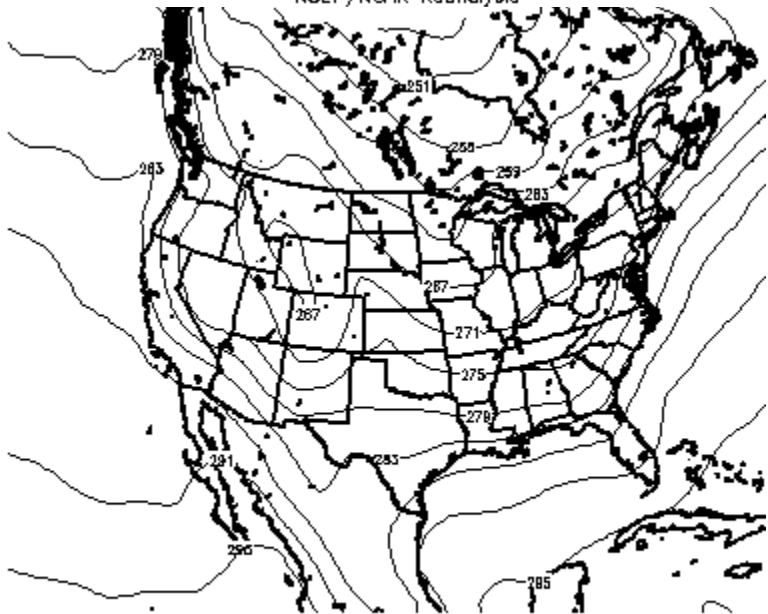
Sea Level Pressure (mb) Composite Mean
Synoptic Type 1019

NCEP/NCAR Reanalysis

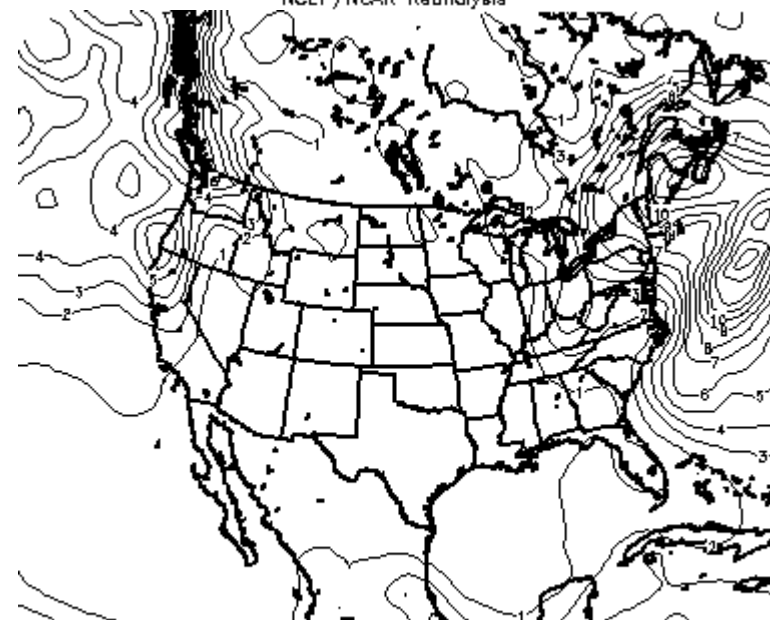


500mb Geopotential Height (m) Composite Mean
Synoptic Type 1019

NCEP/NCAR Reanalysis

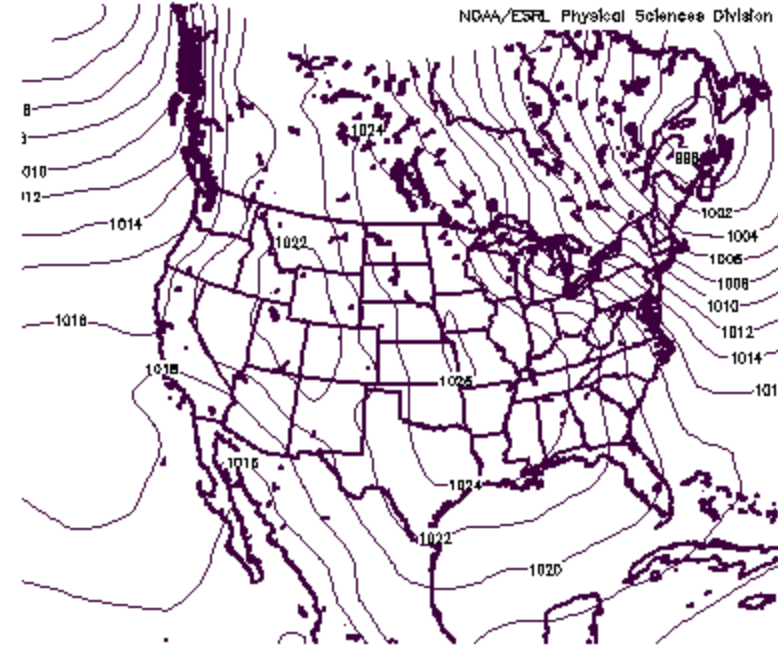


Surface Air Temperature (K) Composite Mean
Synoptic Type 1019

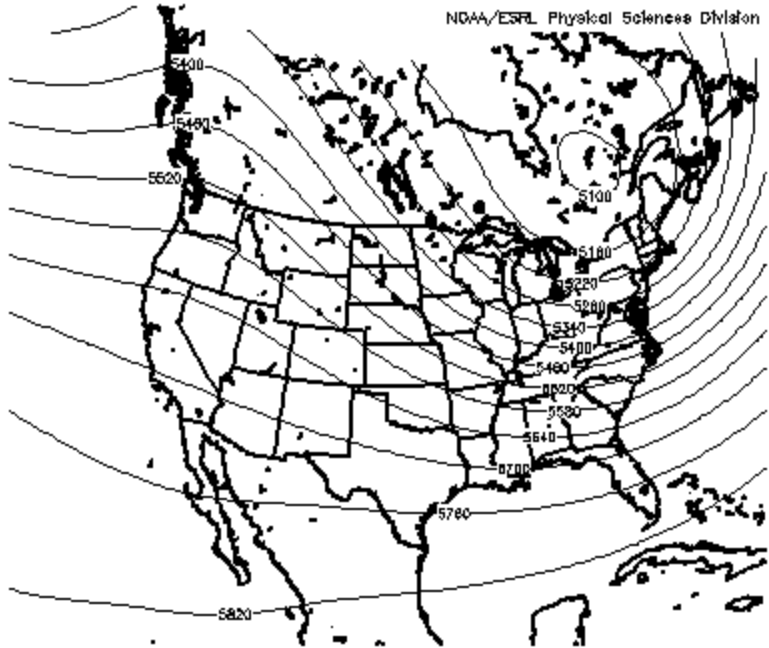


Surface Precipitation Rate (mm/day) Composite Mean
Synoptic Type 1019

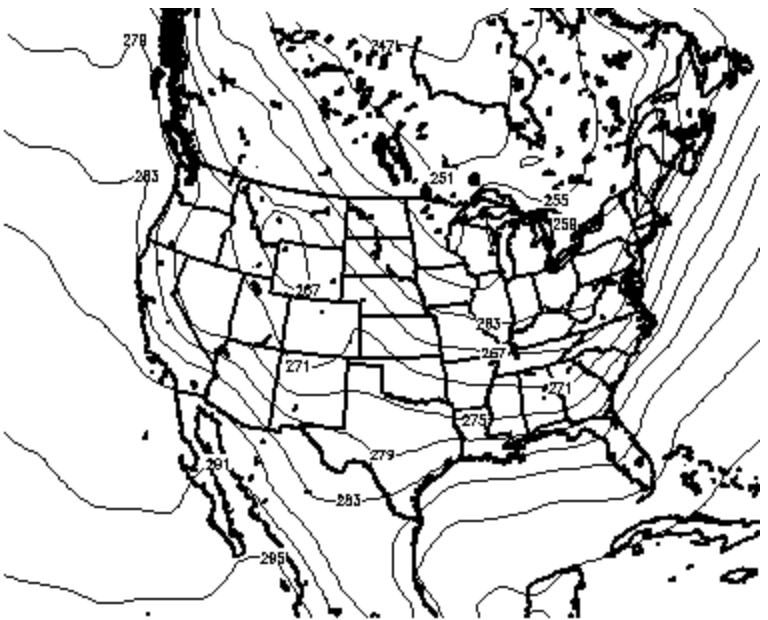
1020



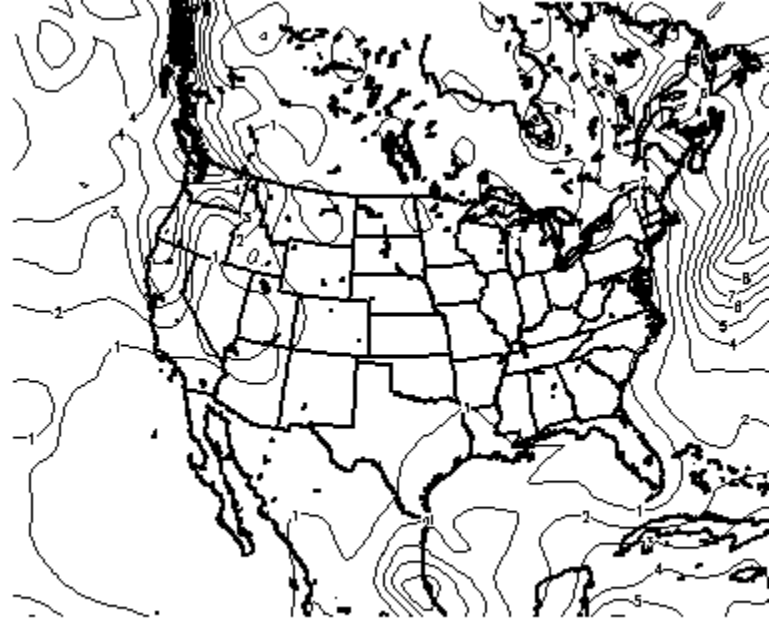
Sea Level Pressure (mb) Composite Mean
Synoptic Type 1020
NCEP/NCAR Reanalysis



500mb Geopotential Height (m) Composite Mean
Synoptic Type 1020
NCEP/NCAR Reanalysis

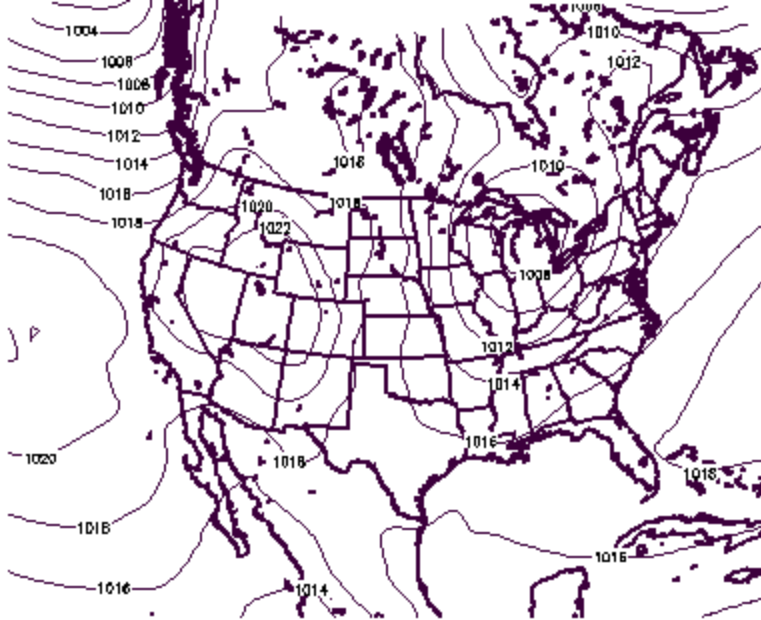


Surface Air Temperature (K) Composite Mean
Synoptic Type 1020

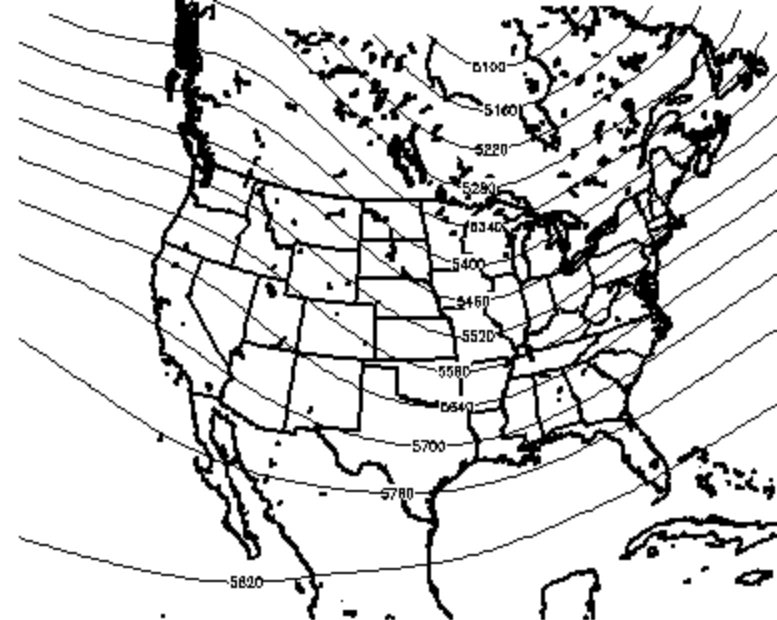


Surface Precipitation Rate (mm/day) Composite Mean
Synoptic Type 1020

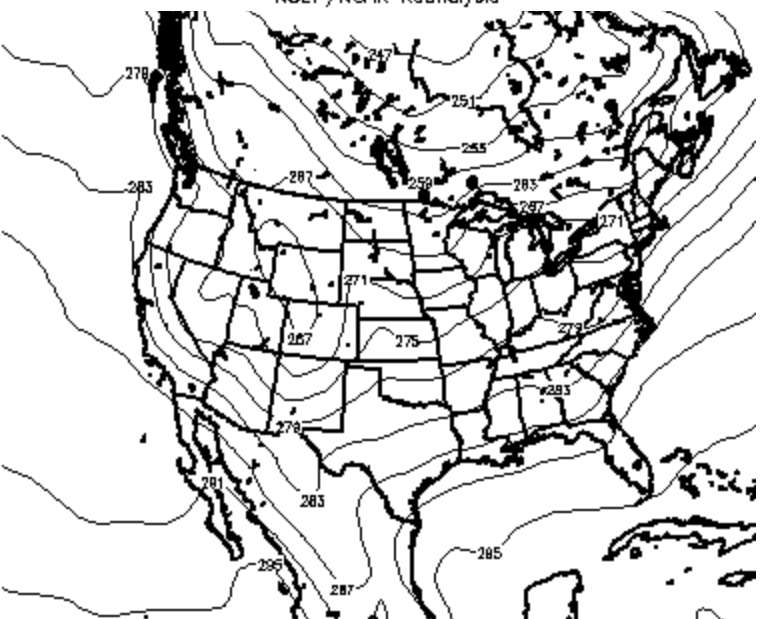
1031



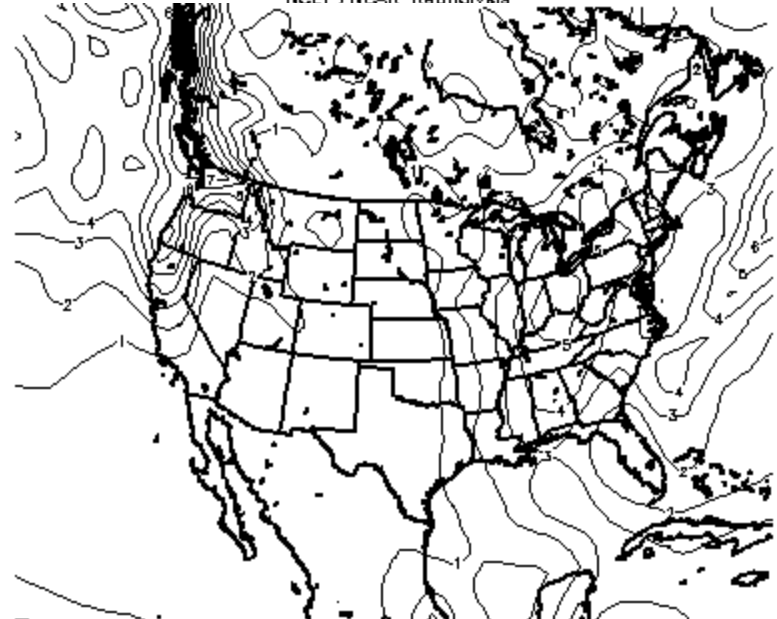
Sea Level Pressure (mb) Composite Mean
Synoptic Type 1031
NCEP/NCAR Reanalysis



500mb Geopotential Height (m) Composite Mean
Synoptic Type 1031
NCEP/NCAR Reanalysis

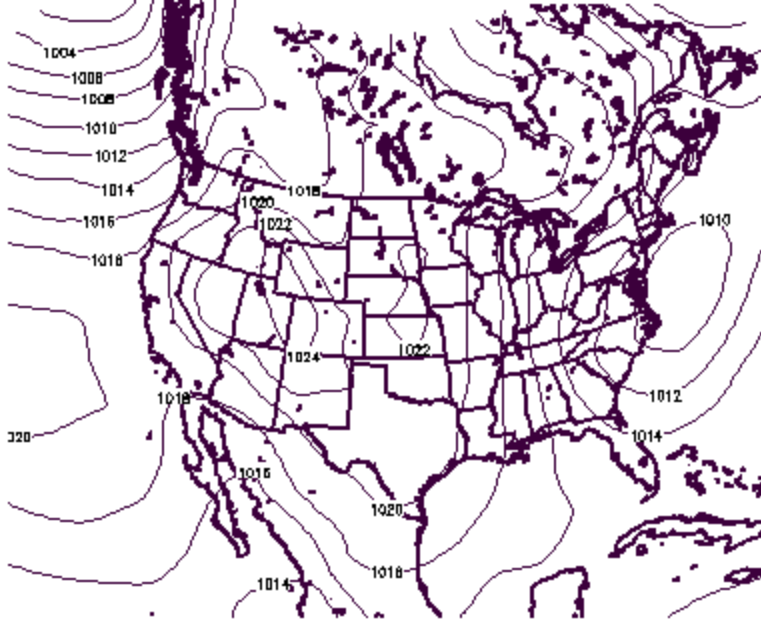


Surface Air Temperature (K) Composite Mean
Synoptic Type 1031
NCEP/NCAR Reanalysis



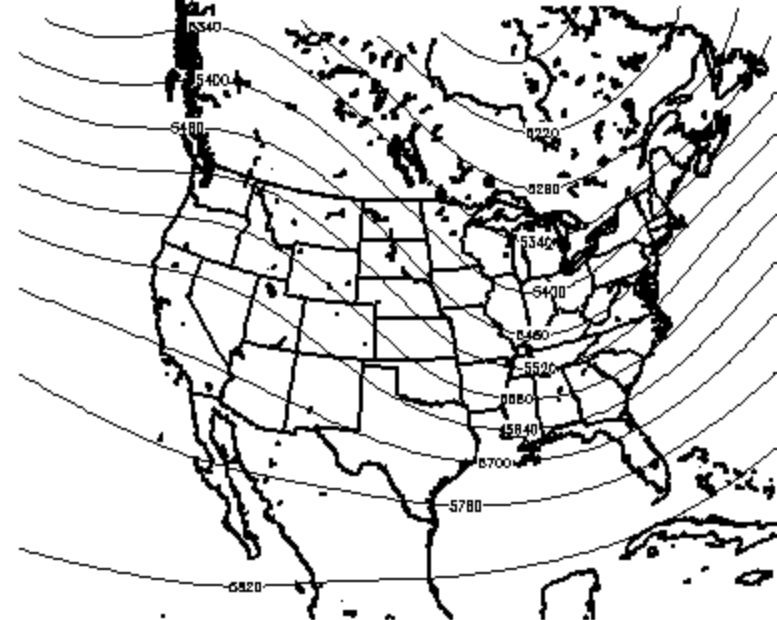
Surface Precipitation Rate (mm/day) Composite Mean
Synoptic Type 1031
NCEP/NCAR Reanalysis

1032



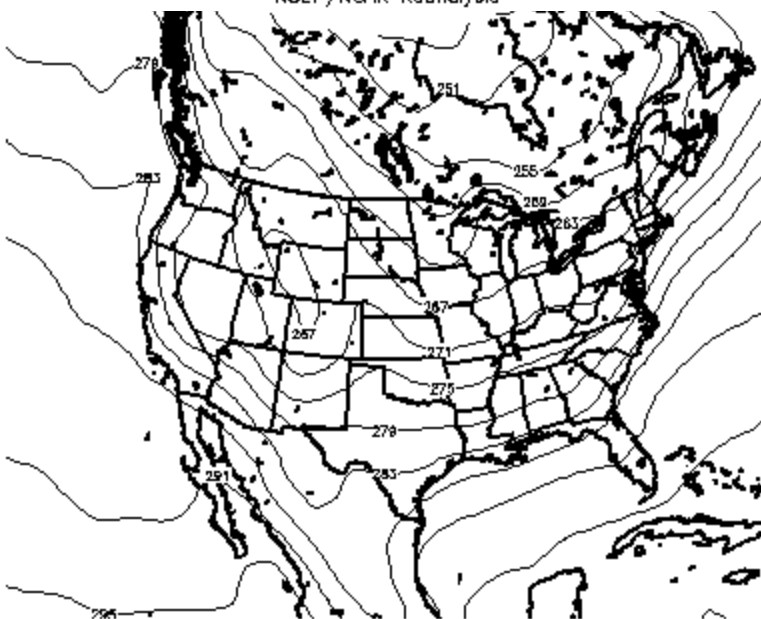
Sea Level Pressure (mb) Composite Mean
Synoptic Type 1032

NCEP/NCAR Reanalysis



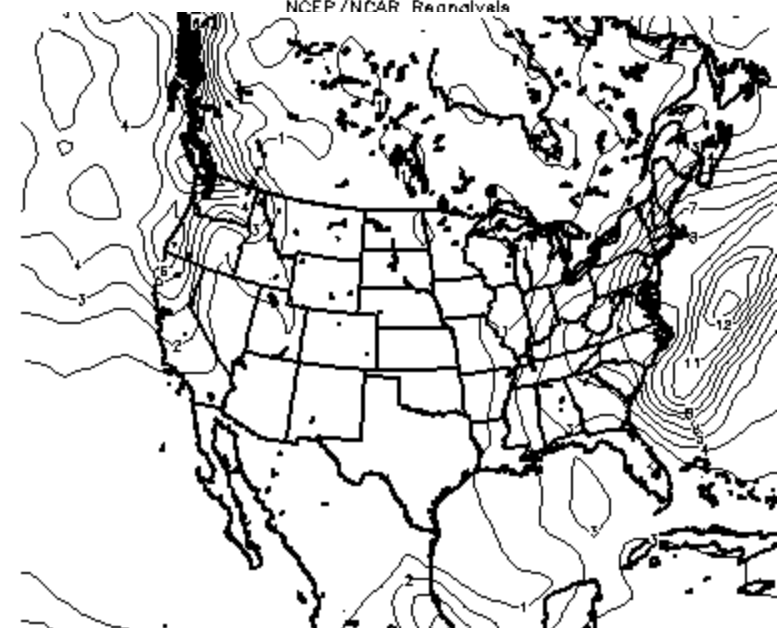
500mb Geopotential Height (m) Composite Mean
Synoptic Type 1032

NCEP/NCAR Reanalysis



Surface Air Temperature (K) Composite Mean
Synoptic Type 1032

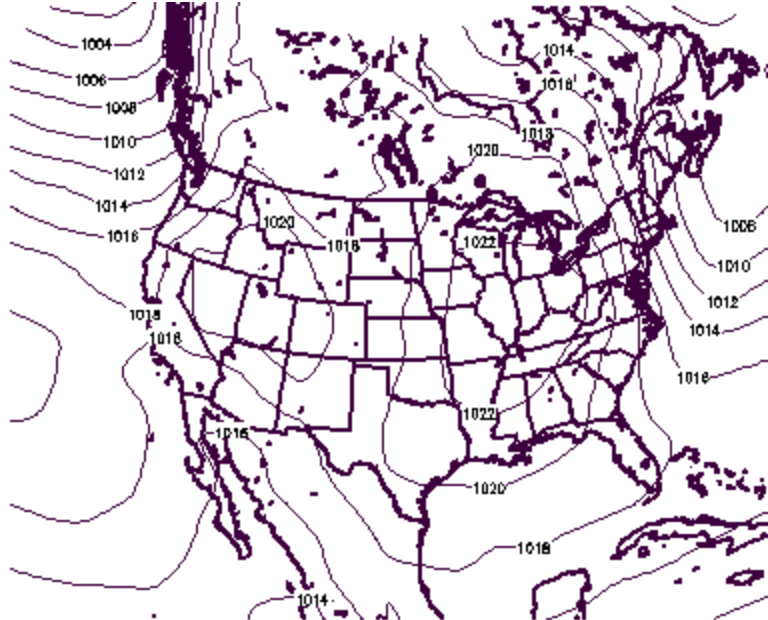
NCEP/NCAR Reanalysis



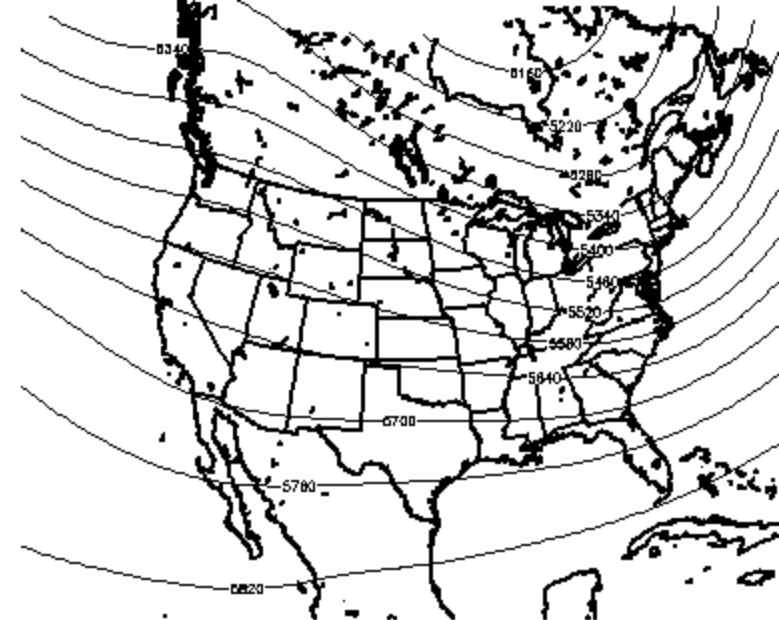
Surface Precipitation Rate (mm/day) Composite Mean
Synoptic Type 1032

NCEP/NCAR Reanalysis

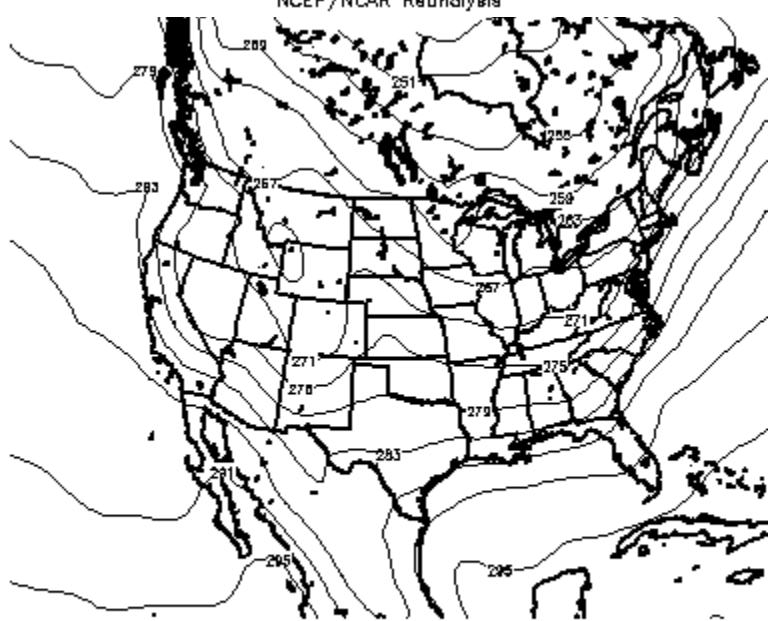
1033



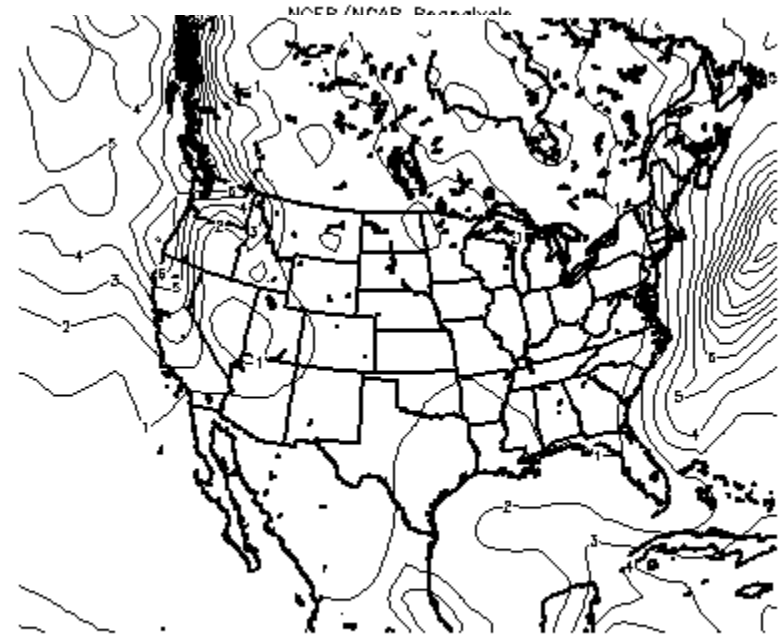
Sea Level Pressure (mb) Composite Mean
 Synoptic Type 1033
 NCEP/NCAR Reanalysis



500mb Geopotential Height (m) Composite Mean
 Synoptic Type 1033
 NCEP/NCAR Reanalysis

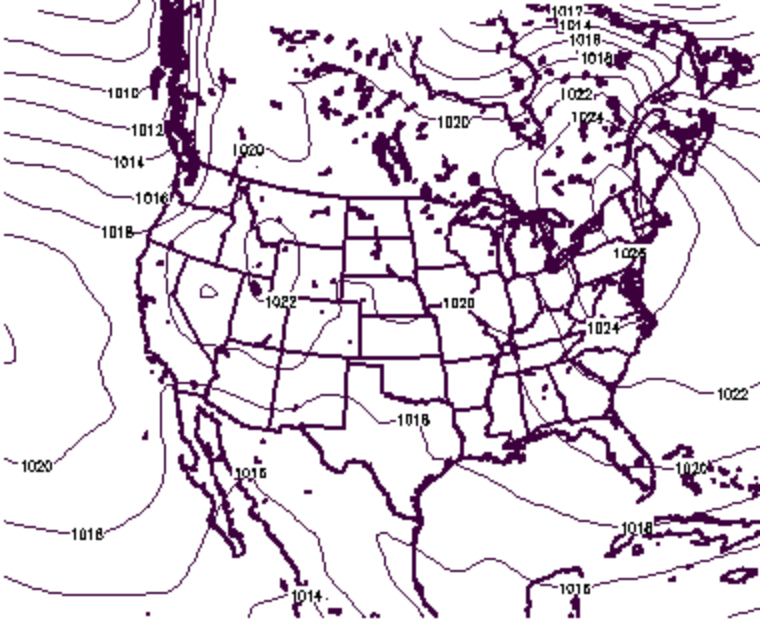


Surface Air Temperature (K) Composite Mean
 Synoptic Type 1033
 NCEP/NCAR Reanalysis

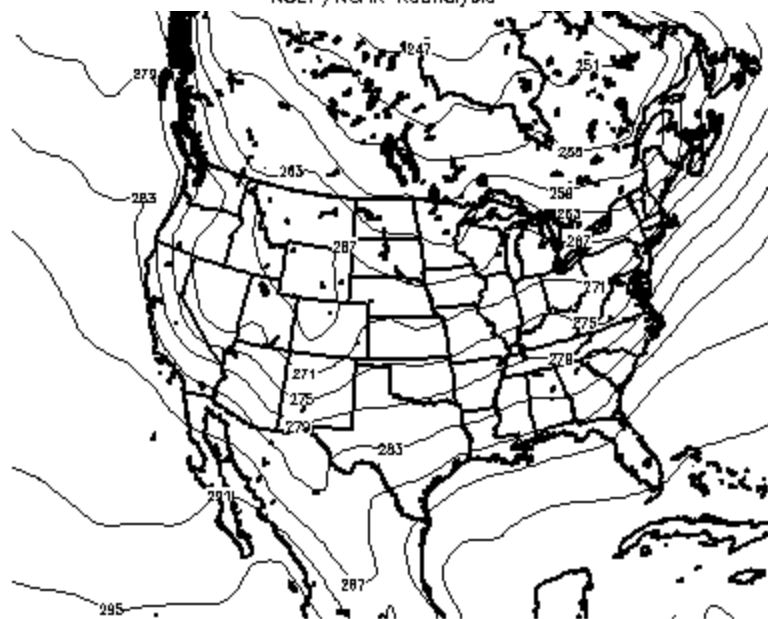


Surface Precipitation Rate (mm/day) Composite Mean
 Synoptic Type 1033
 NCEP/NCAR Reanalysis

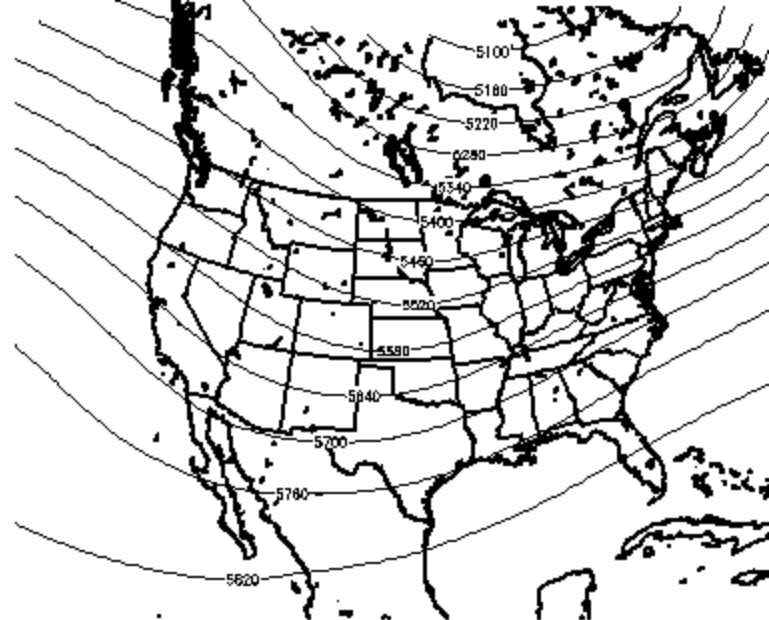
1034



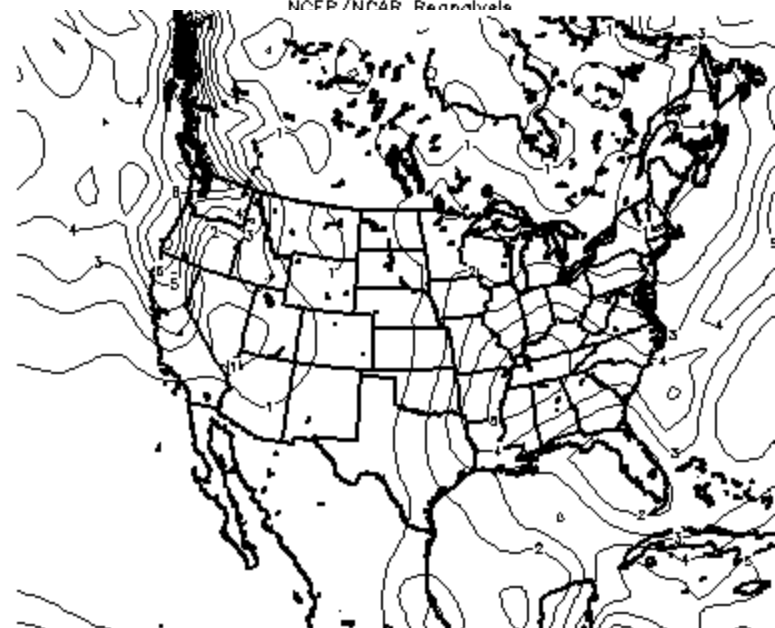
Sea Level Pressure (mb) Composite Mean
Synoptic Type 1034
NCEP/NCAR Reanalyses



Surface Air Temperature (K) Composite Mean
Synoptic Type 1034
NCEP/NCAR Reanalyses

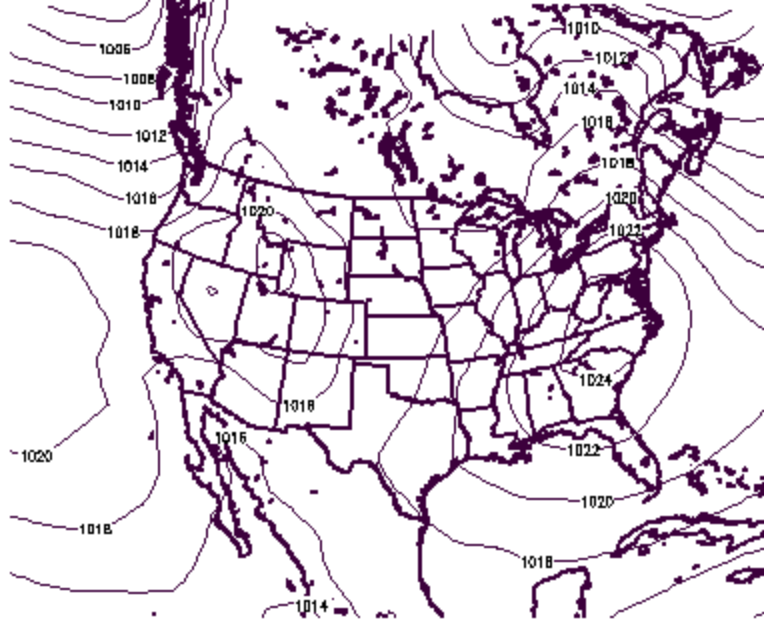


500mb Geopotential Height (m) Composite Mean
Synoptic Type 1034
NCEP/NCAR Reanalyses

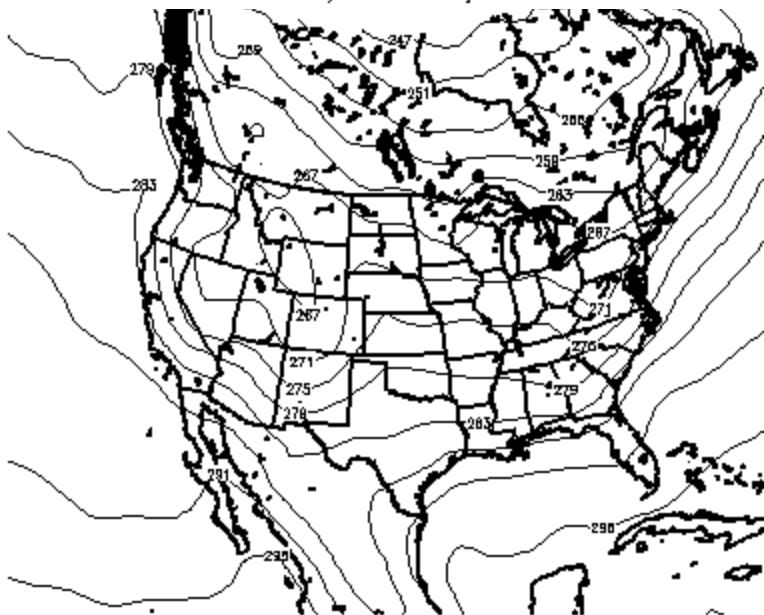


Surface Precipitation Rate (mm/day) Composite Mean
Synoptic Type 1034
NCEP/NCAR Reanalyses

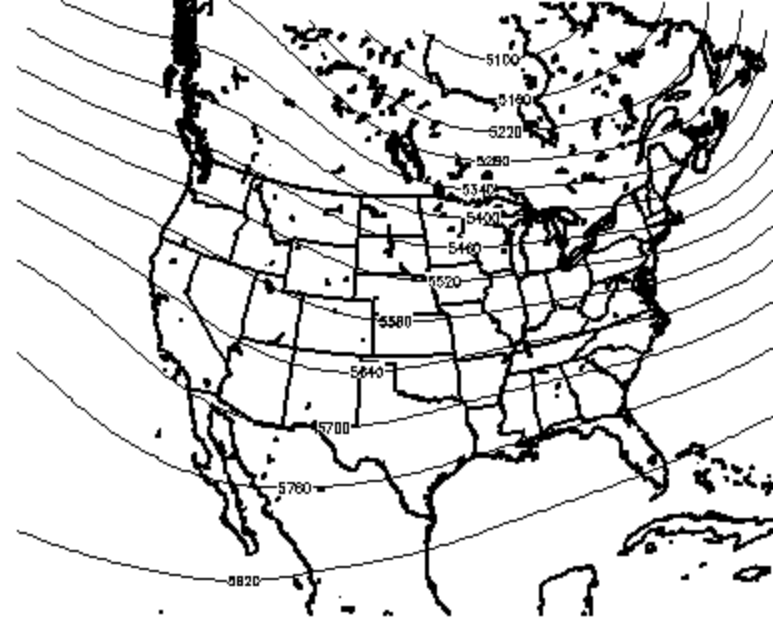
1035



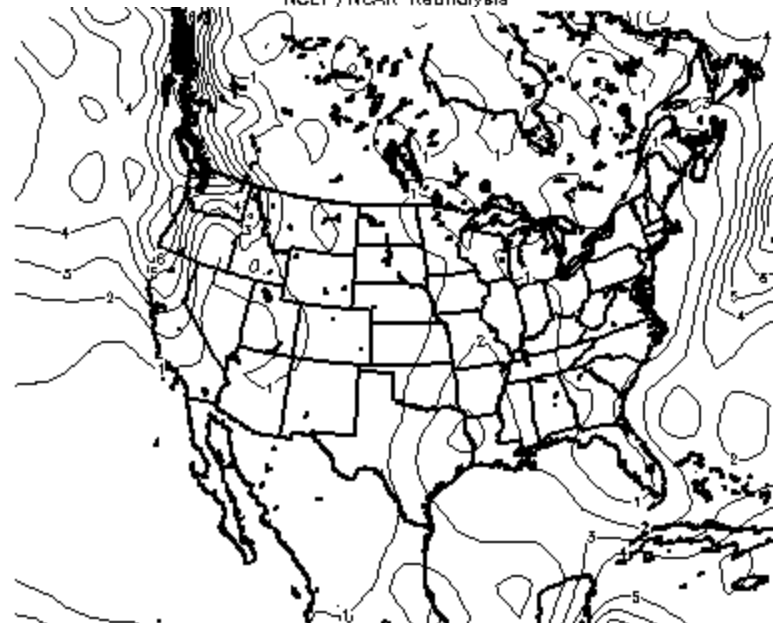
Sea Level Pressure (mb) Composite Mean
Synoptic Type 1035
NCEP/NCAR Reanalysis



Surface Air Temperature (K) Composite Mean
Synoptic Type 1035
NCEP/NCAR Reanalysis



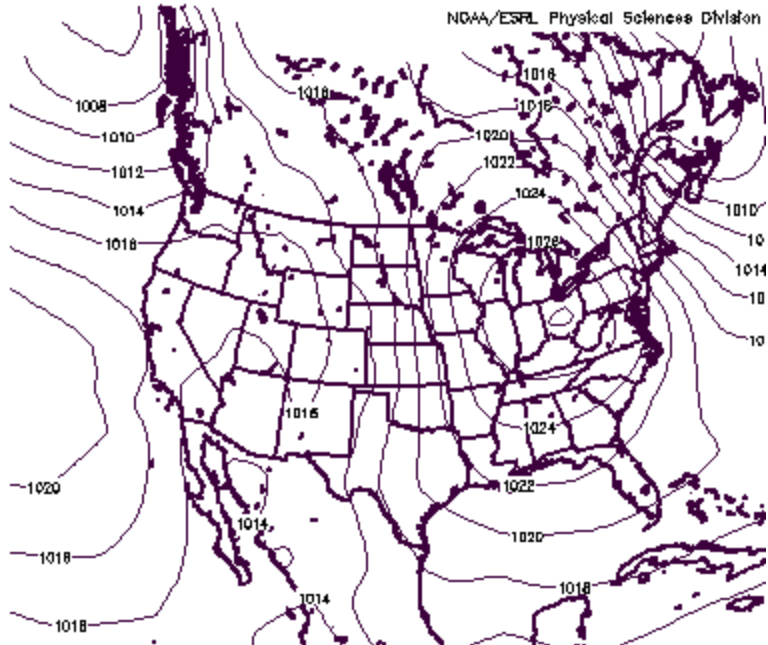
500mb Geopotential Height (m) Composite Mean
Synoptic Type 1035
NCEP/NCAR Reanalysis



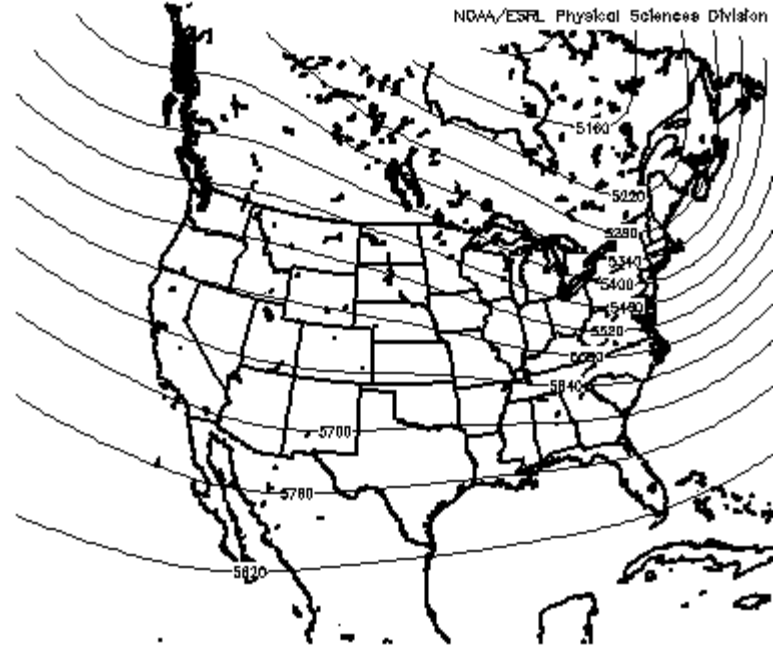
Surface Precipitation Rate (mm/day) Composite Mean
Synoptic Type 1035
NCEP/NCAR Reanalysis

Spring (MAM) Synoptic Types

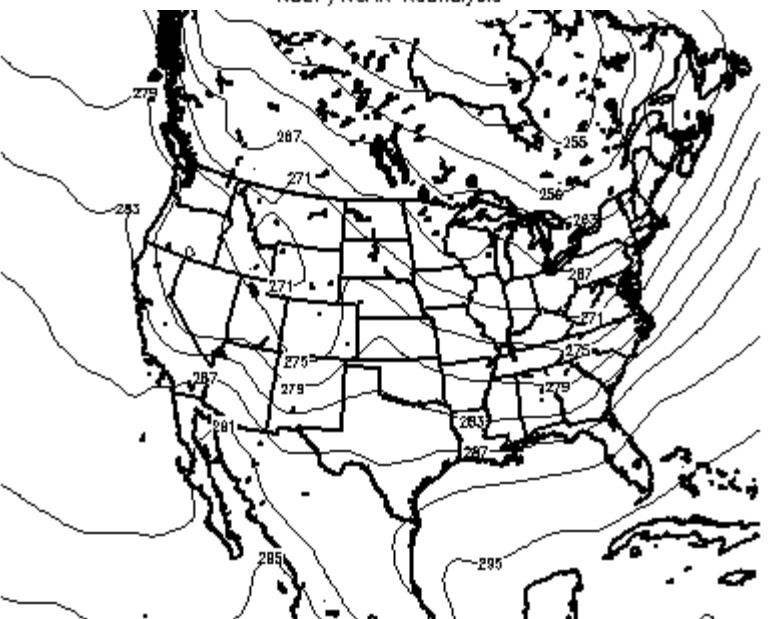
2006



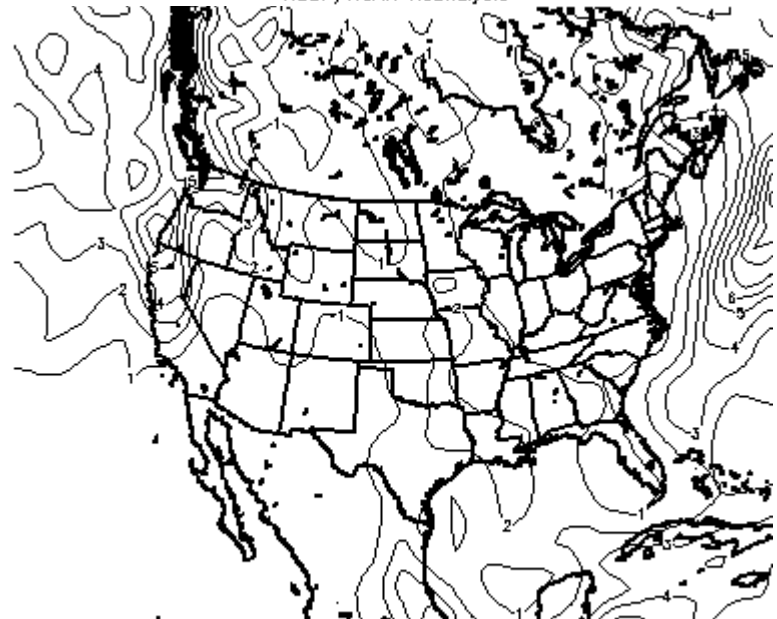
Sea Level Pressure (mb) Composite Mean
Synoptic Type 2006
NCEP/NCAR Reanalysis



500mb Geopotential Height (m) Composite Mean
Synoptic Type 2006
NCEP/NCAR Reanalysis

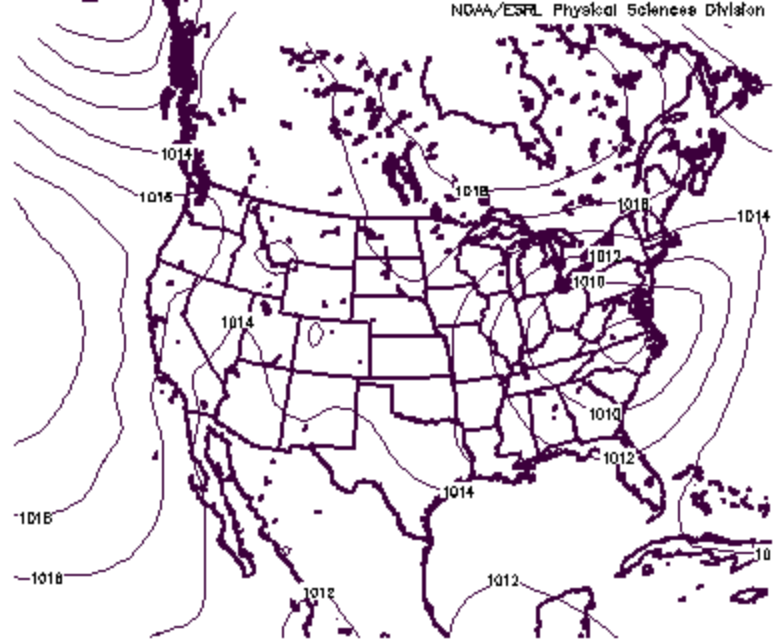


Surface Air Temperature (K) Composite Mean
Synoptic Type 2006

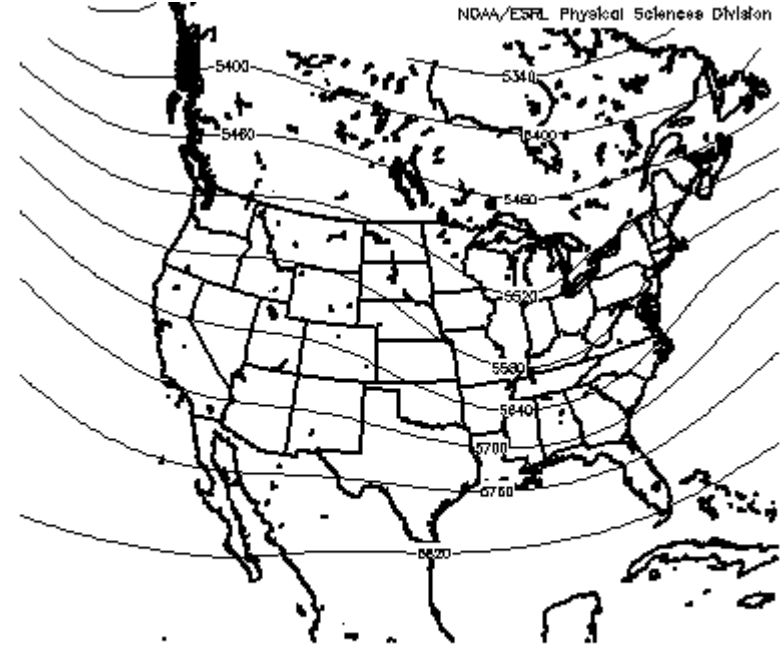


Surface Precipitation Rate (mm/day) Composite Mean
Synoptic Type 2006

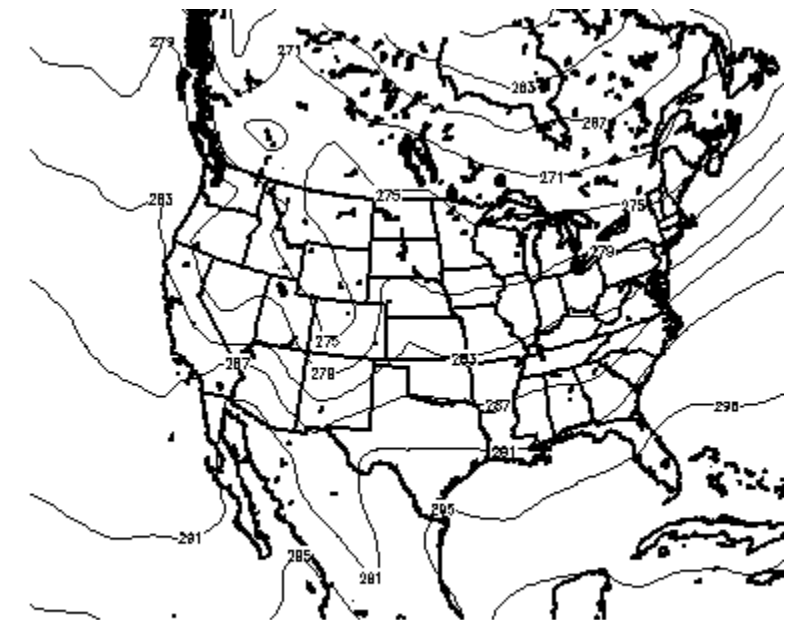
2012



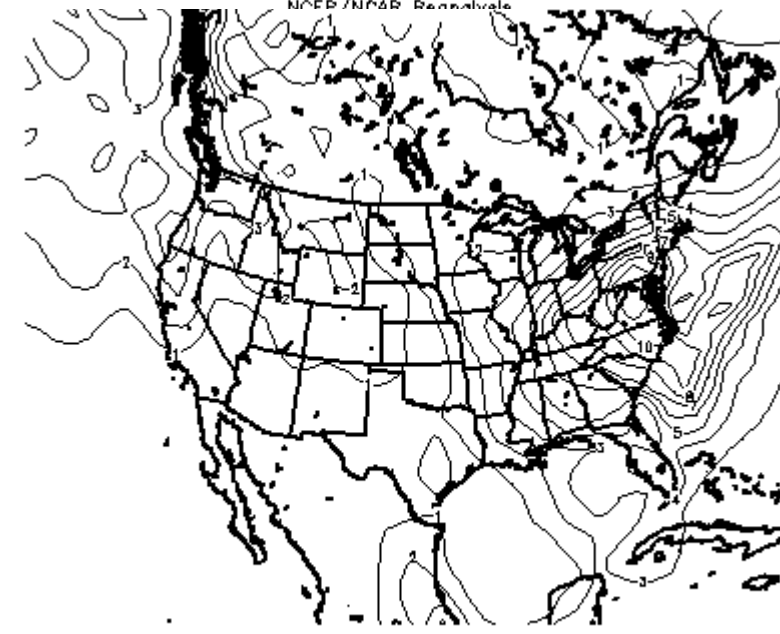
Sea Level Pressure (mb) Composite Mean
Synoptic Type 2012
NCEP/NCAR Reanalysis



500mb Geopotential Height (m) Composite Mean
Synoptic Type 2012
NCEP/NCAR Reanalysis

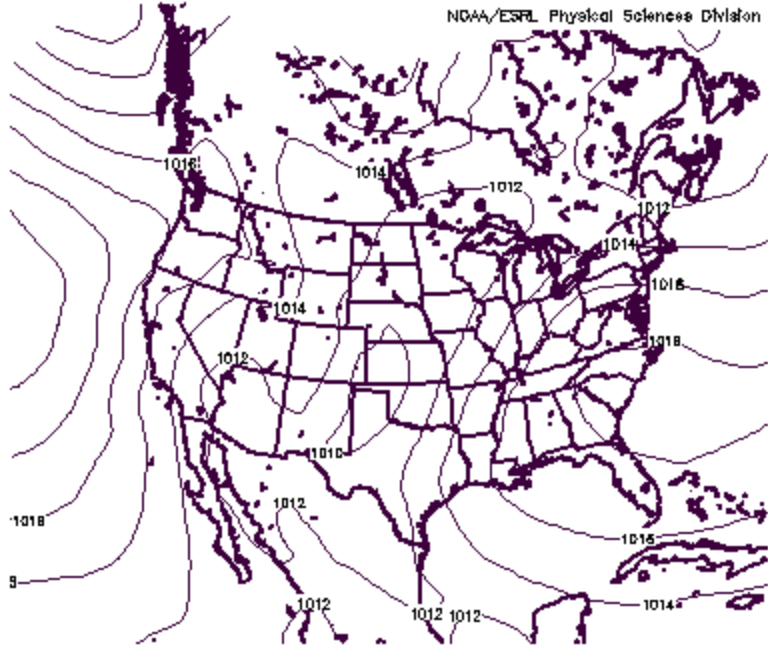


Surface Air Temperature (K) Composite Mean
Synoptic Type 2012

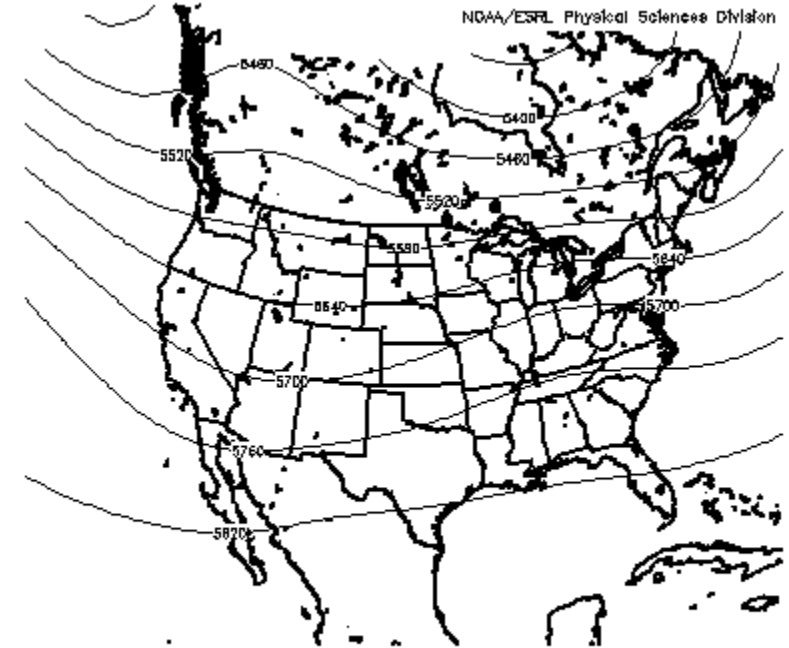


Surface Precipitation Rate (mm/day) Composite Mean
Synoptic Type 2012

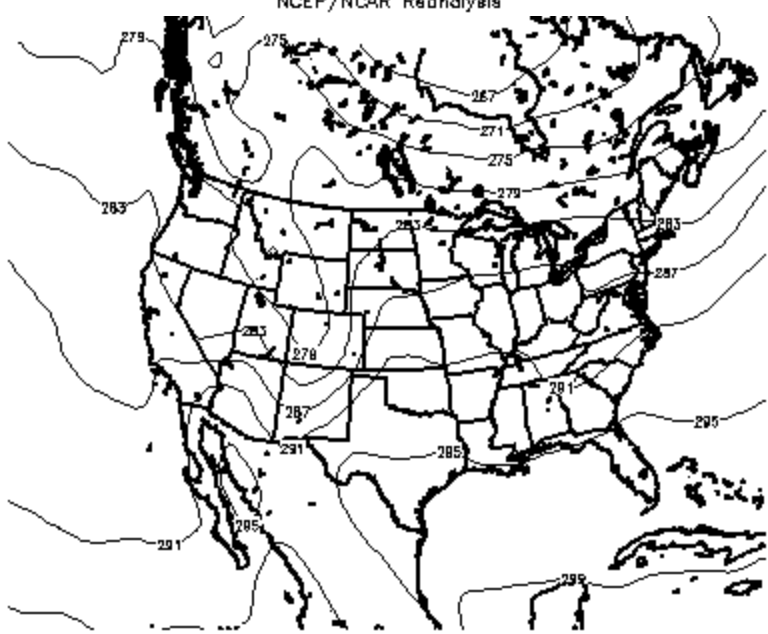
2017



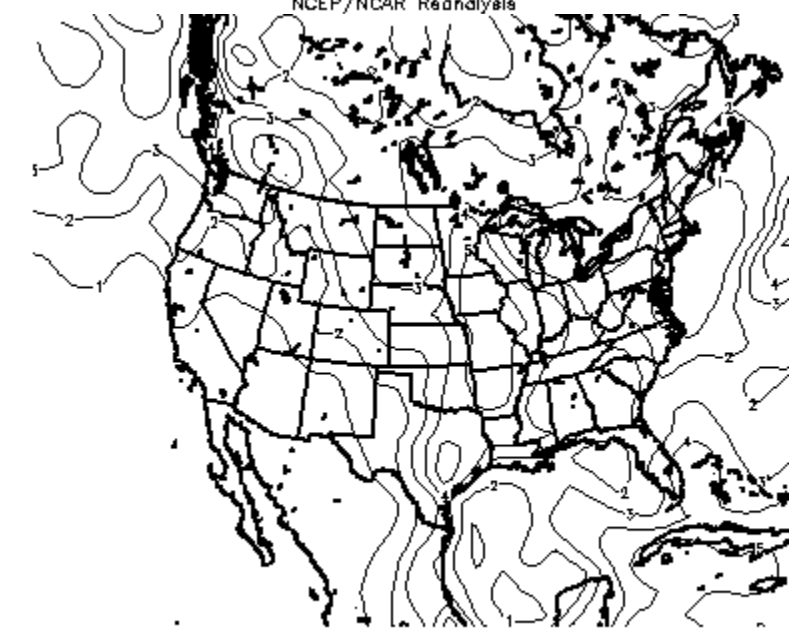
Sea Level Pressure (mb) Composite Mean
Synoptic Type 2017
NCEP/NCAR Reanalysis



500mb Geopotential Height (m) Composite Mean
Synoptic Type 2017
NCEP/NCAR Reanalysis

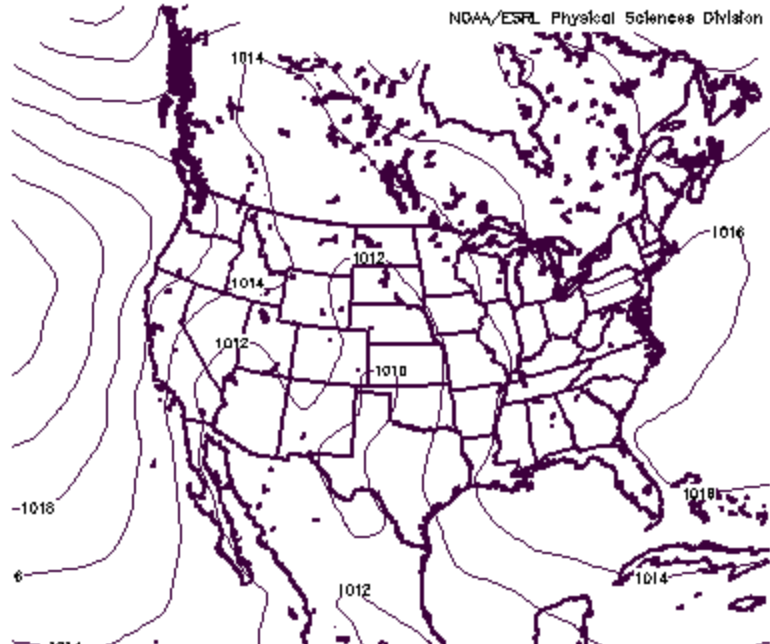


Surface Air Temperature (K) Composite Mean
Synoptic Type 2017

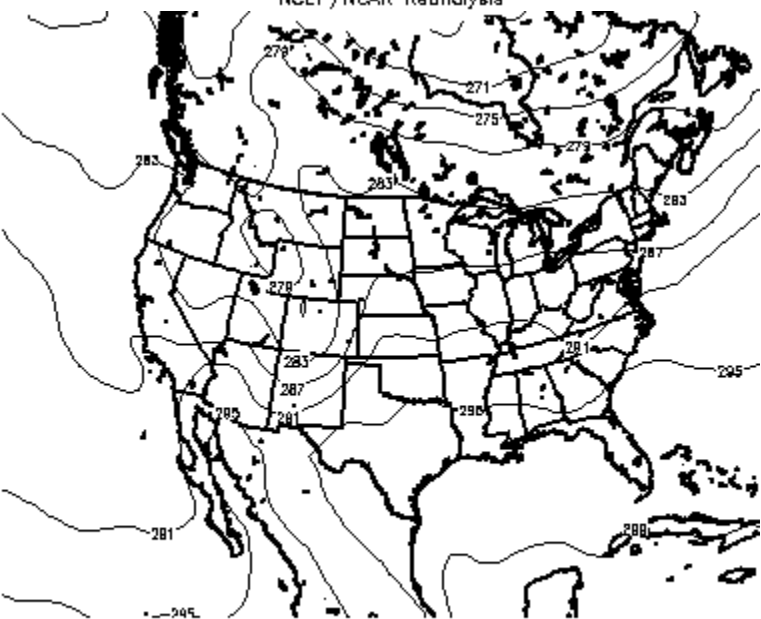


Surface Precipitation Rate (mm/day) Composite Mean
Synoptic Type 2017

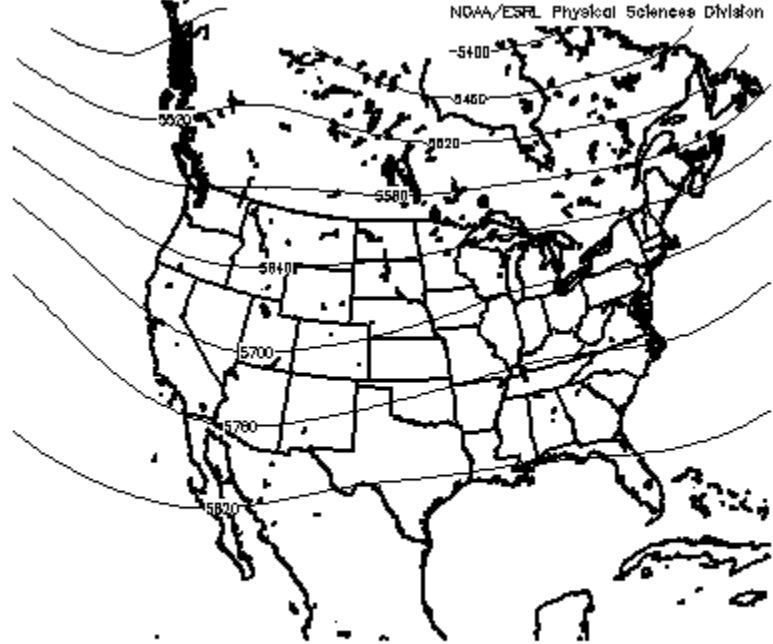
2018



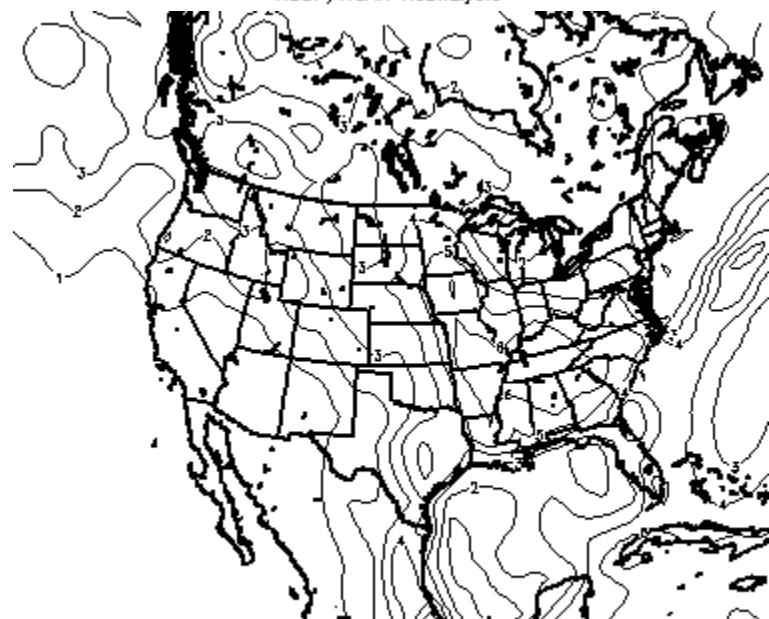
Sea Level Pressure (mb) Composite Mean
Synoptic Type 2018
NCEP/NCAR Reanalysis



Surface Air Temperature (K) Composite Mean
Synoptic Type 2018

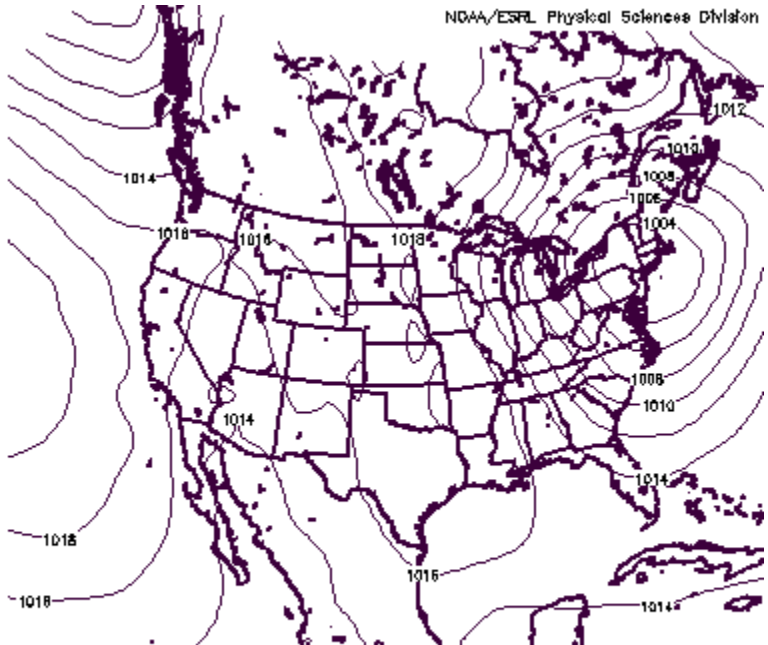


500mb Geopotential Height (m) Composite Mean
Synoptic Type 2018
NCEP/NCAR Reanalysis

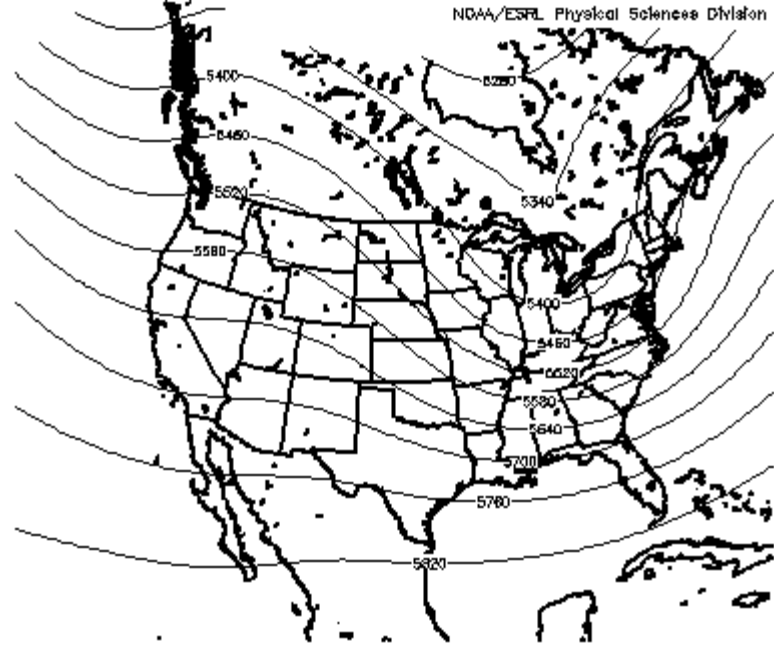


Surface Precipitation Rate (mm/day) Composite Mean
Synoptic Type 2018

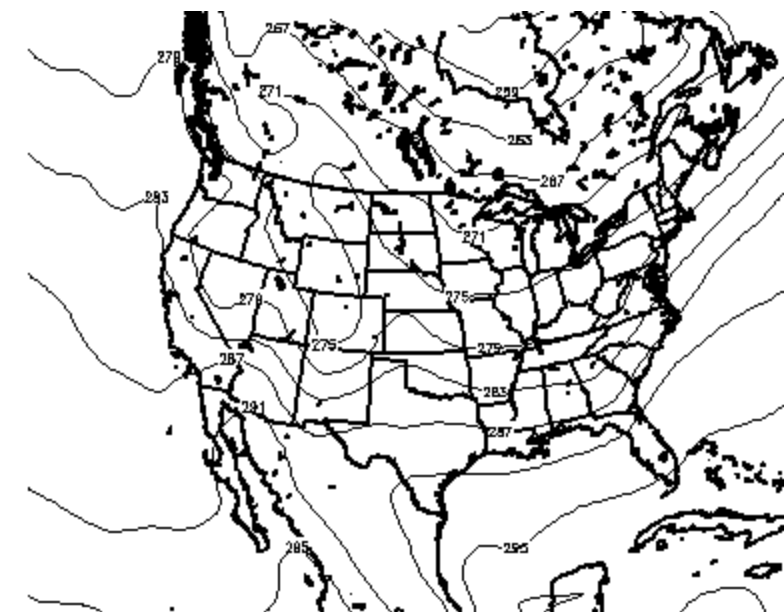
2020



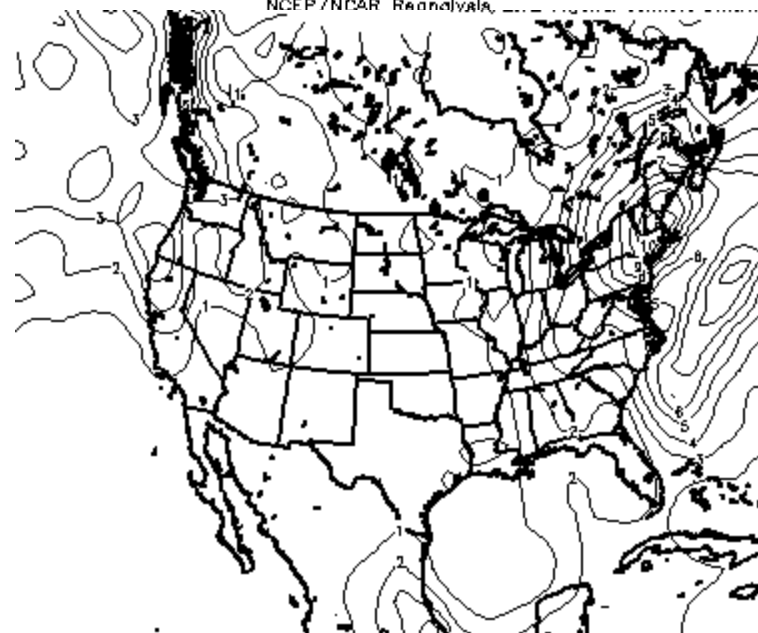
Sea Level Pressure (mb) Composite Mean
Synoptic Type 2020
NCEP/NCAR Reanalyses



500mb Geopotential Height (m) Composite Mean
Synoptic Type 2020
NCEP/NCAR Reanalyses

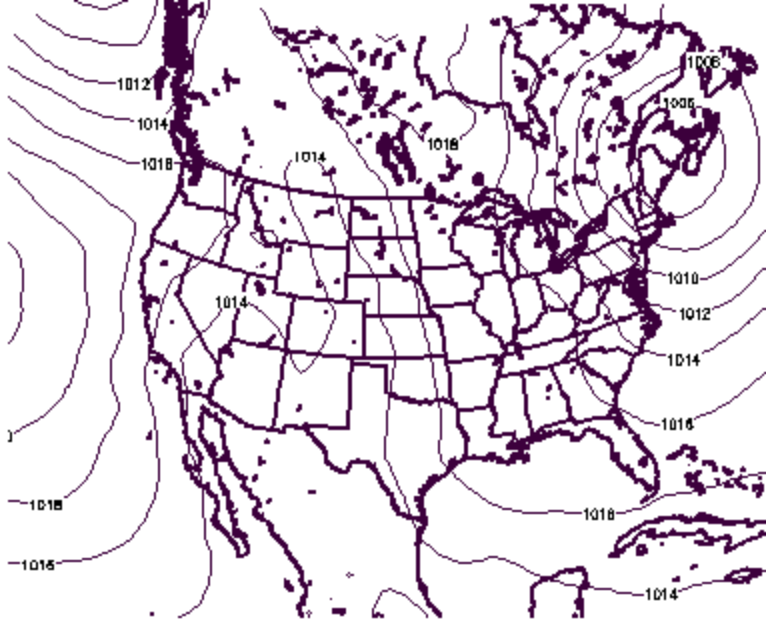


Surface Air Temperature (K) Composite Mean
Synoptic Type 2020

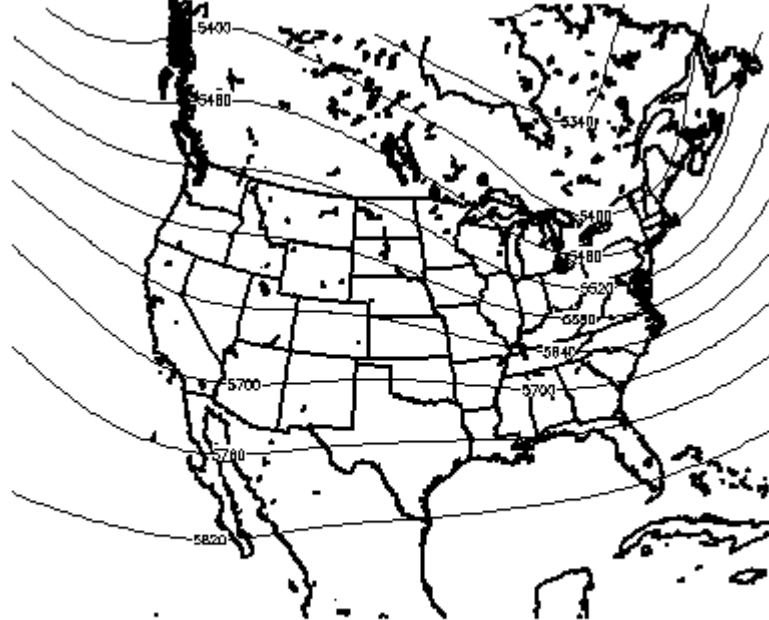


Surface Precipitation Rate (mm/day) Composite Mean
Synoptic Type 2020

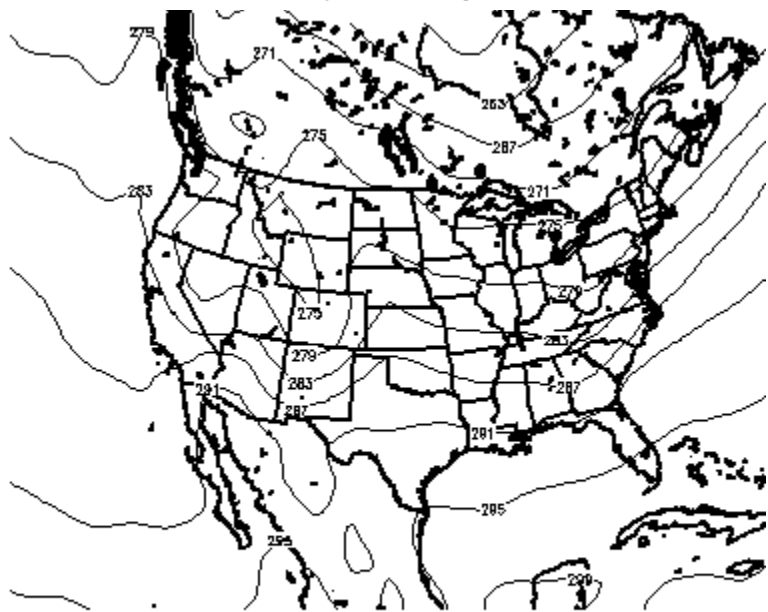
2031



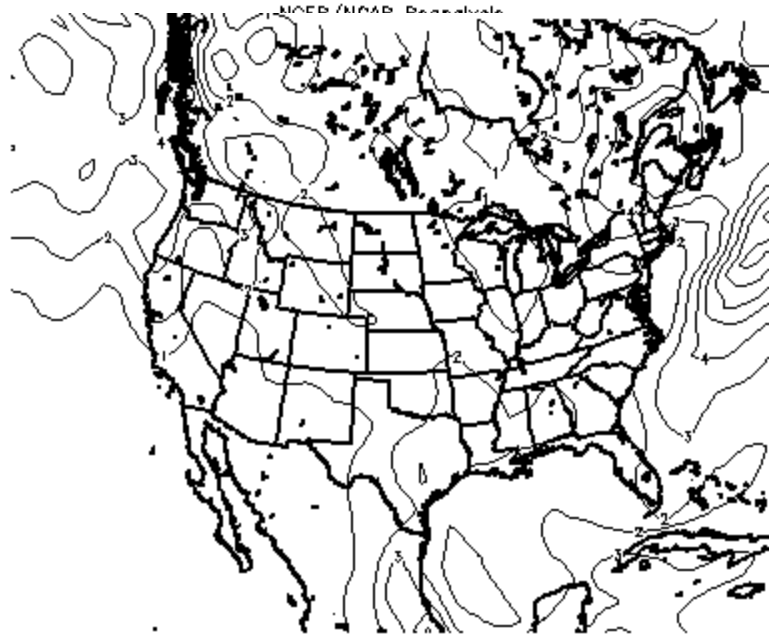
Sea Level Pressure (mb) Composite Mean
Synoptic Type 2031
NCEP/NCAR Reanalysis



500mb Geopotential Height (m) Composite Mean
Synoptic Type 2031
NCEP/NCAR Reanalysis

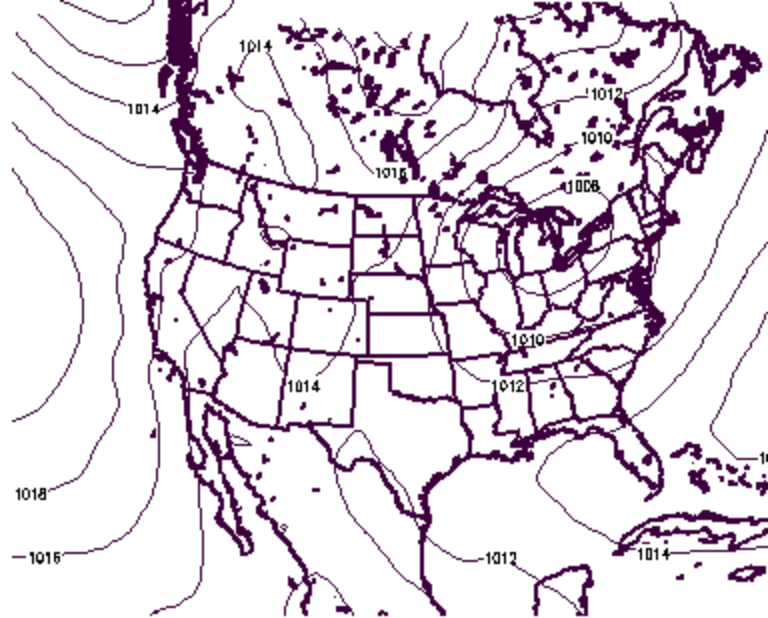


Surface Air Temperature (K) Composite Mean
Synoptic Type 2031
NCEP/NCAR Reanalysis

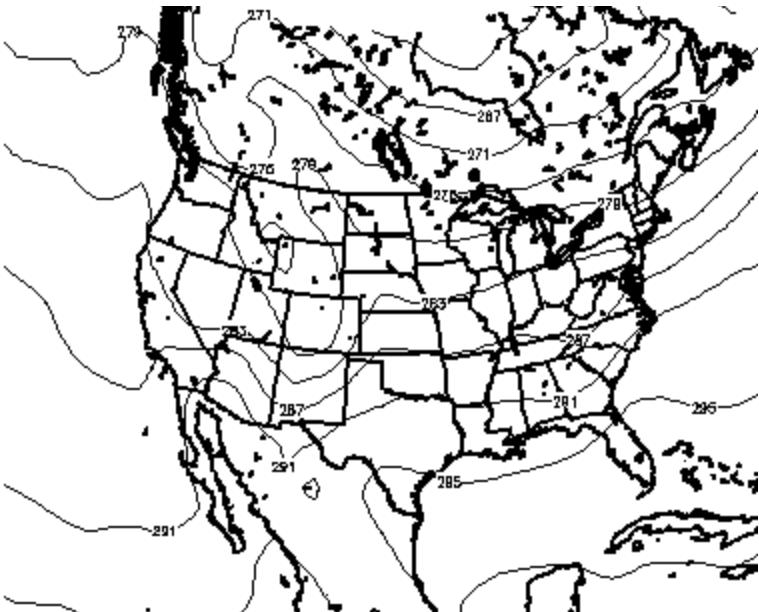


Surface Precipitation Rate (mm/day) Composite Mean
Synoptic Type 2031
NCEP/NCAR Reanalysis

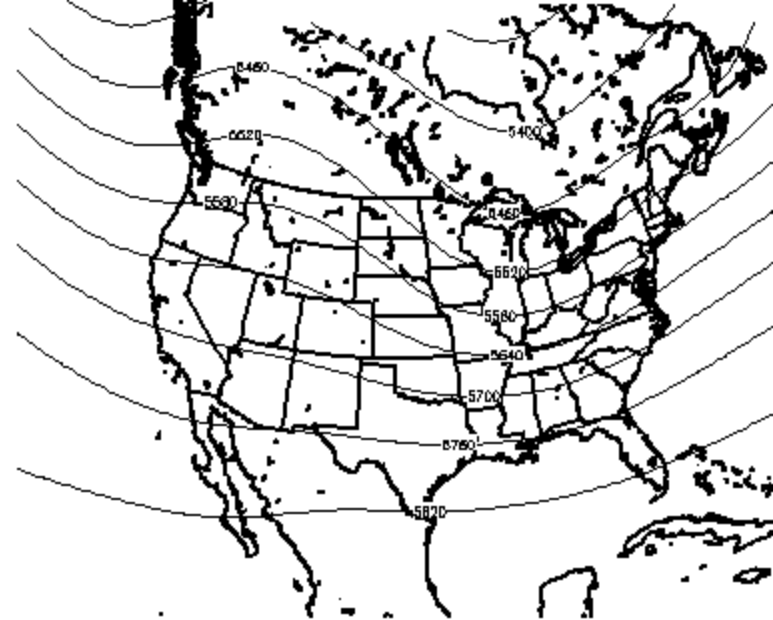
2032



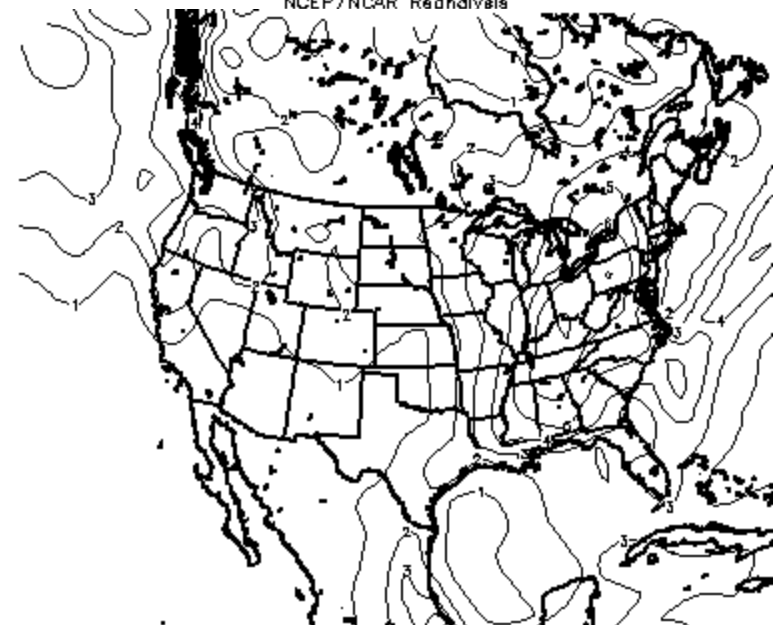
Sea Level Pressure (mb) Composite Mean
Synoptic Type 2032
NCEP/NCAR Reanalysis



Surface Air Temperature (K) Composite Mean
Synoptic Type 2032
NCEP/NCAR Reanalysis

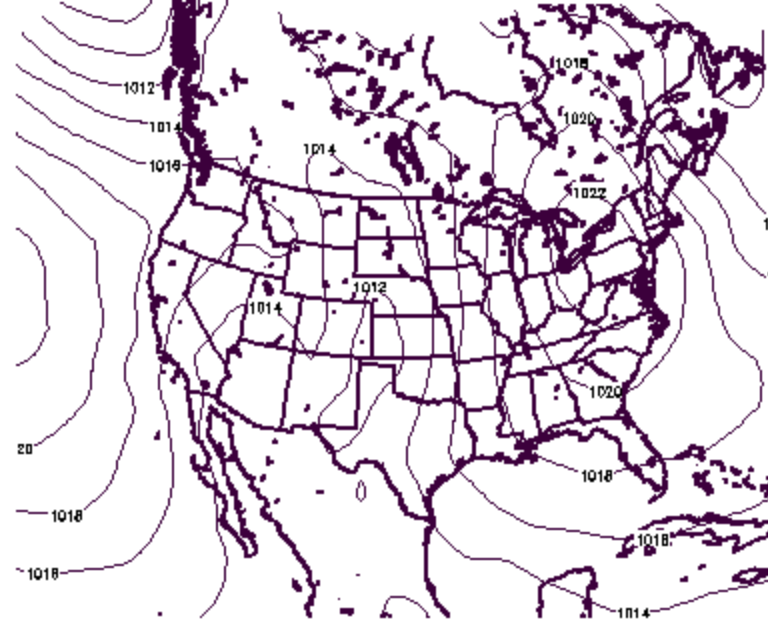


500mb Geopotential Height (m) Composite Mean
Synoptic Type 2032
NCEP/NCAR Reanalysis

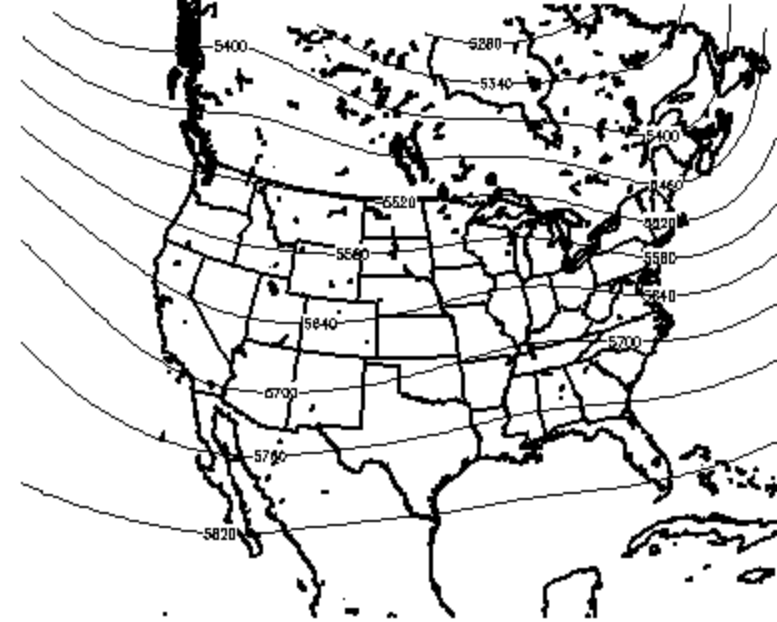


Surface Precipitation Rate (mm/day) Composite Mean
Synoptic Type 2032
NCEP/NCAR Reanalysis

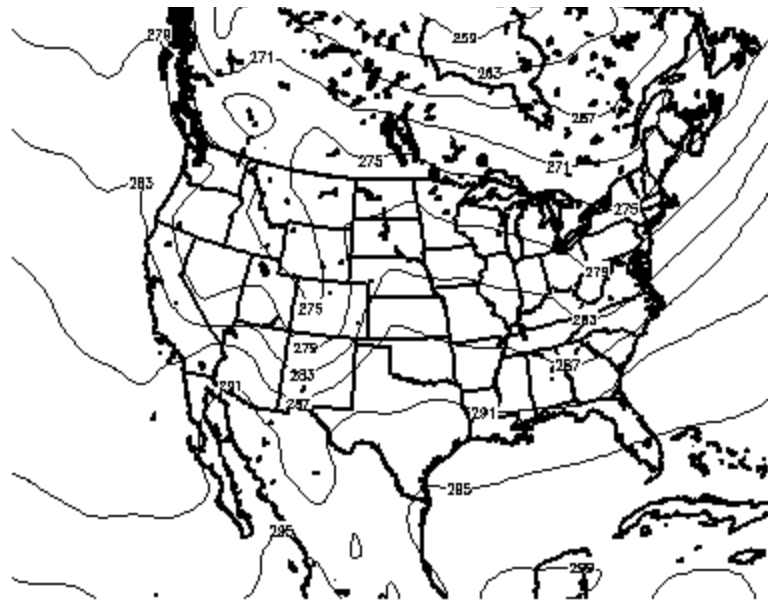
2033



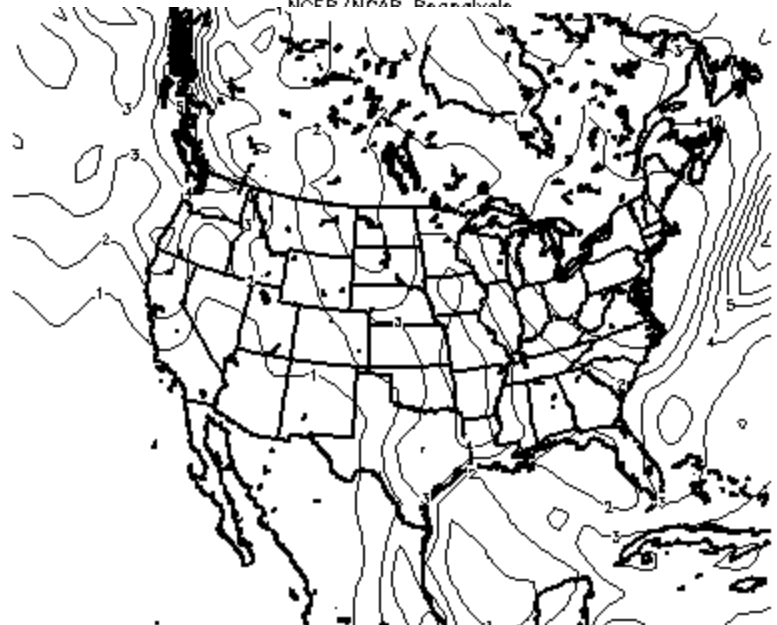
Sea Level Pressure (mb) Composite Mean
Synoptic Type 2033
NCEP/NCAR Reanalysis



500mb Geopotential Height (m) Composite Mean
Synoptic Type 2033
NCEP/NCAR Reanalysis

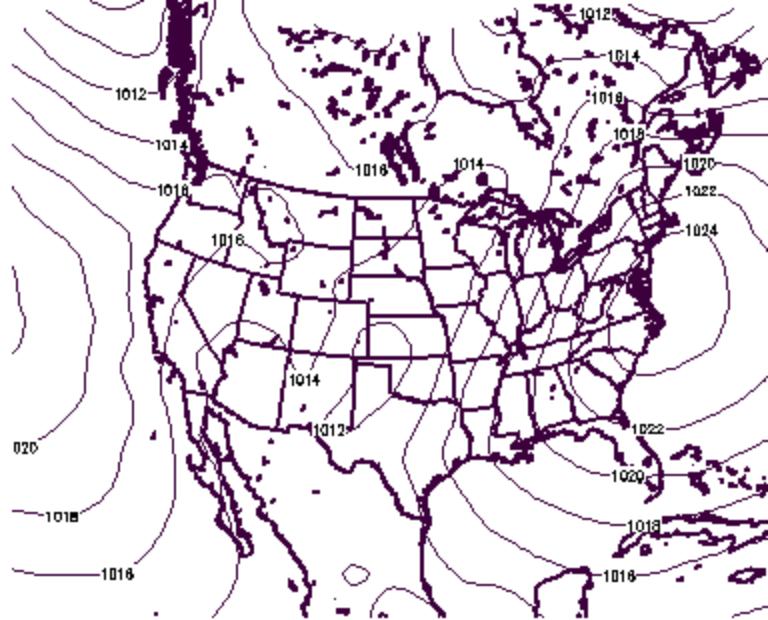


Surface Air Temperature (K) Composite Mean
Synoptic Type 2033
NCEP/NCAR Reanalysis



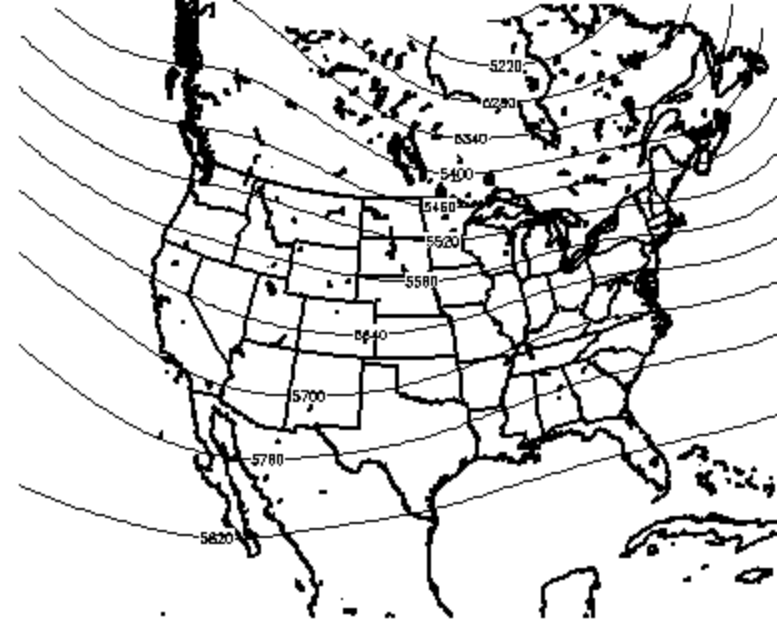
Surface Precipitation Rate (mm/day) Composite Mean
Synoptic Type 2033
NCEP/NCAR Reanalysis

2034



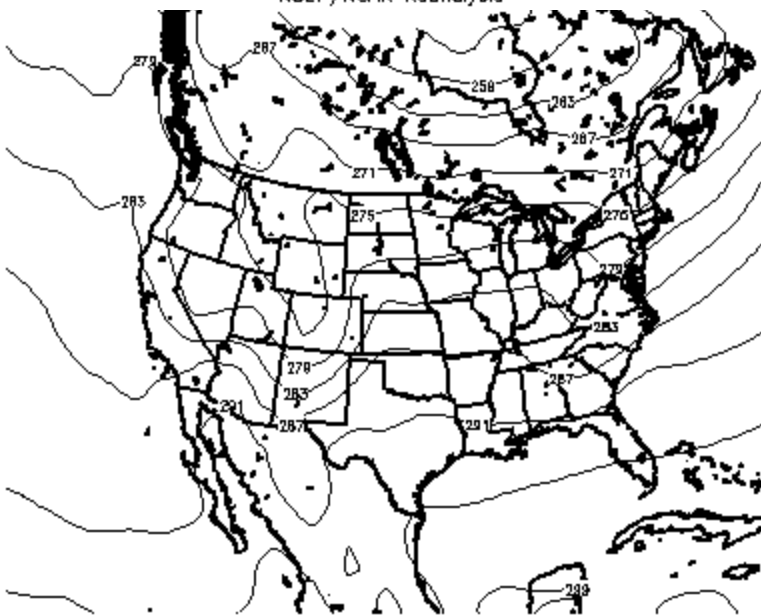
Sea Level Pressure (mb) Composite Mean
Synoptic Type 2034

NCEP/NCAR Reanalysis



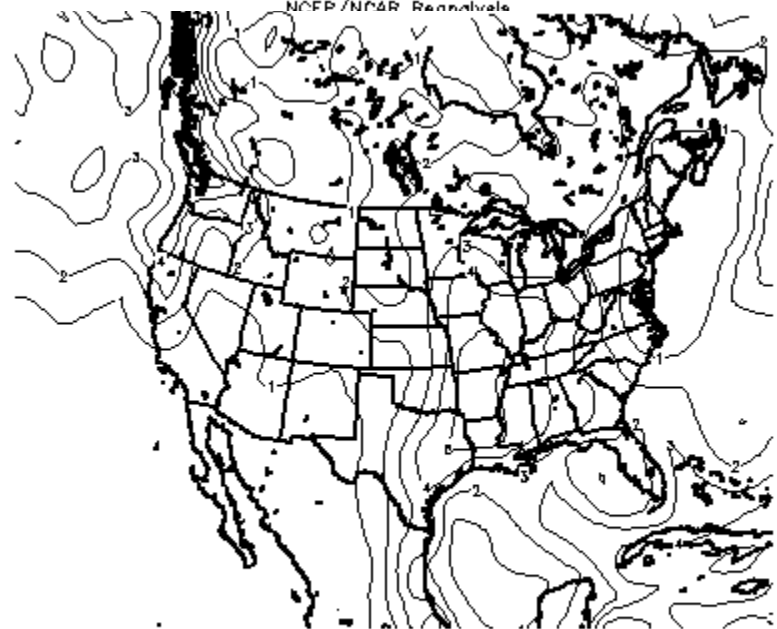
500mb Geopotential Height (m) Composite Mean
Synoptic Type 2034

NCEP/NCAR Reanalysis



Surface Air Temperature (K) Composite Mean
Synoptic Type 2034

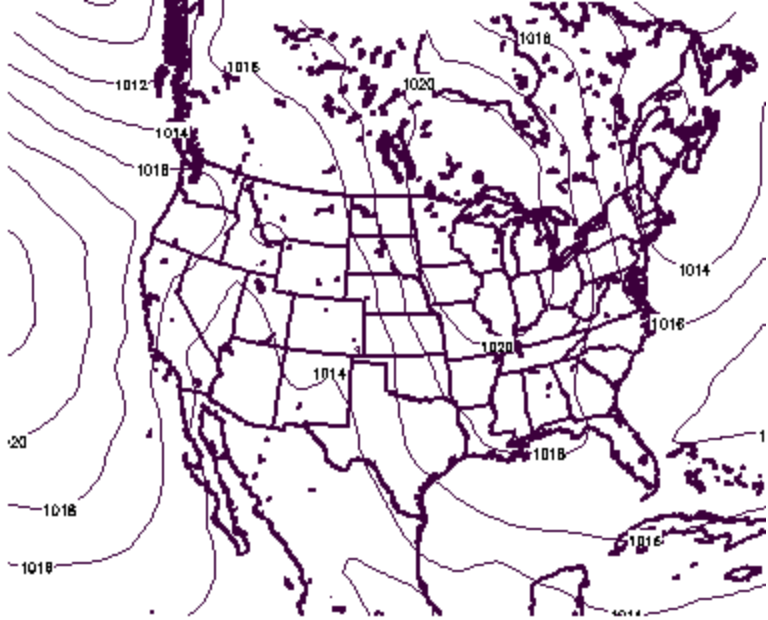
NCEP/NCAR Reanalysis



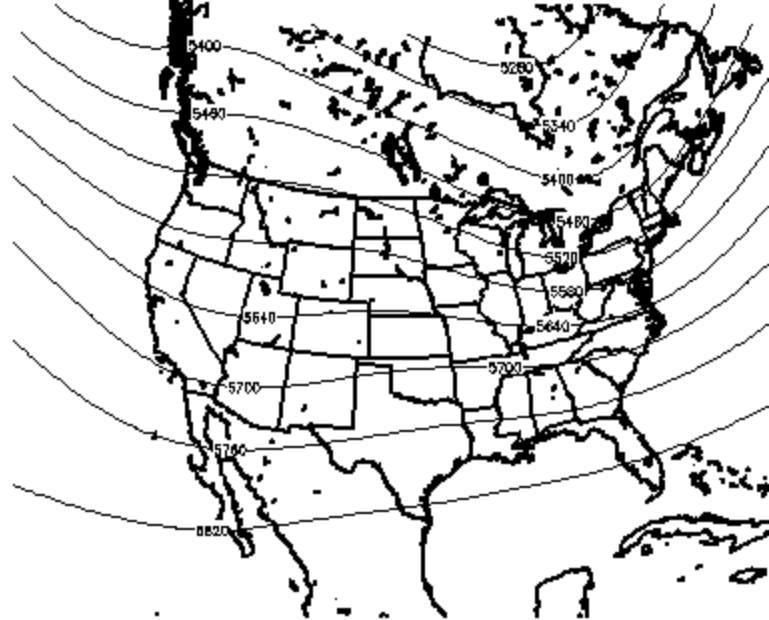
Surface Precipitation Rate (mm/day) Composite Mean
Synoptic Type 2034

NCEP/NCAR Reanalysis

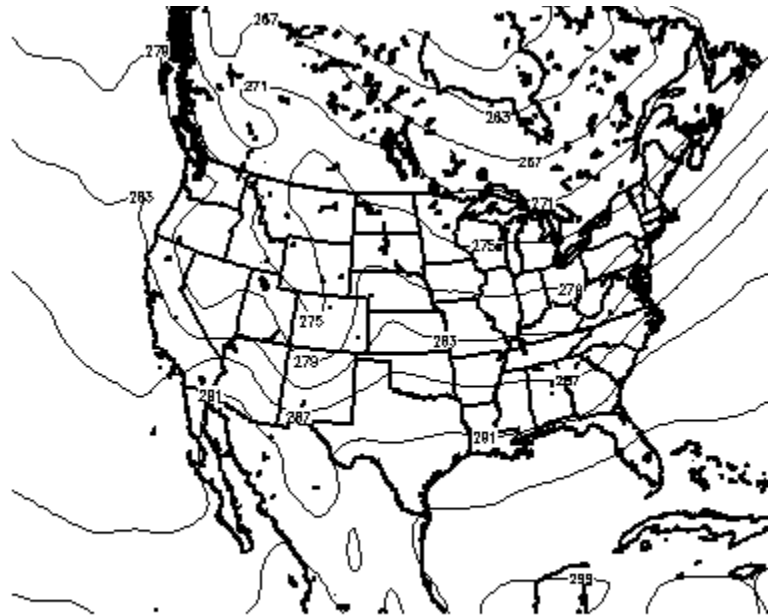
2035



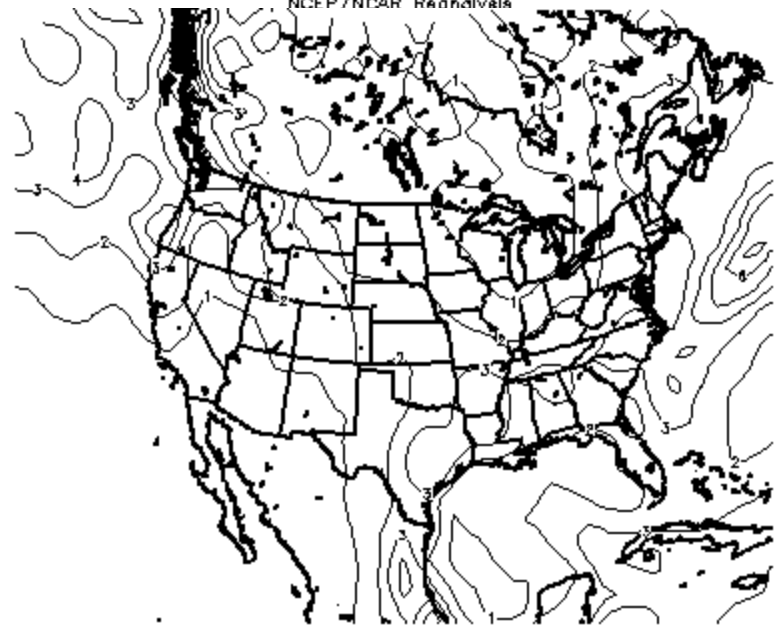
Sea Level Pressure (mb) Composite Mean
Synoptic Type 2035
NCEP/NCAR Reanalysis



500mb Geopotential Height (m) Composite Mean
Synoptic Type 2035
NCEP/NCAR Reanalysis

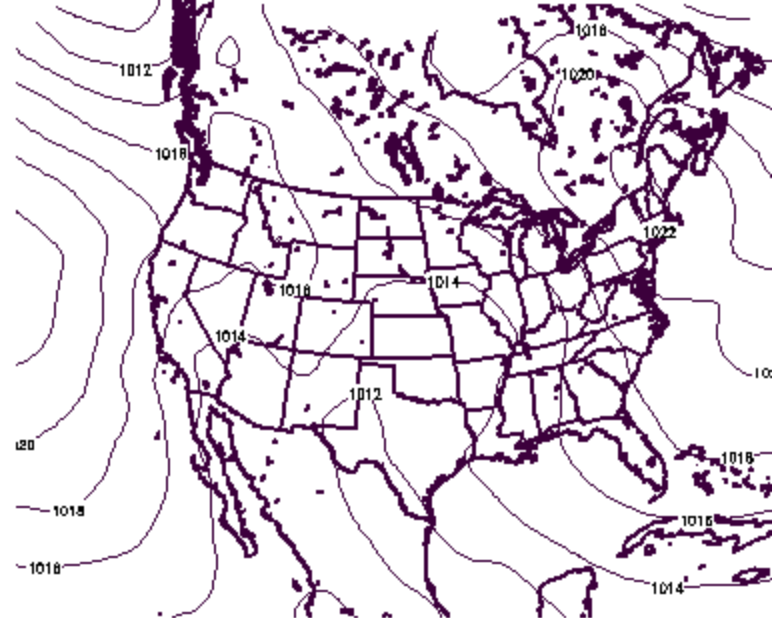


Surface Air Temperature (K) Composite Mean
Synoptic Type 2035
NCEP/NCAR Reanalysis

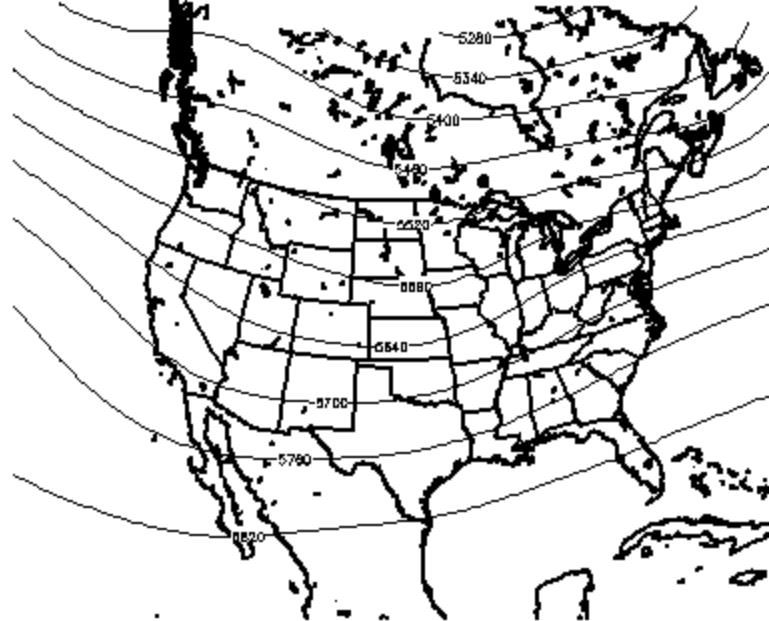


Surface Precipitation Rate (mm/day) Composite Mean
Synoptic Type 2035
NCEP/NCAR Reanalysis

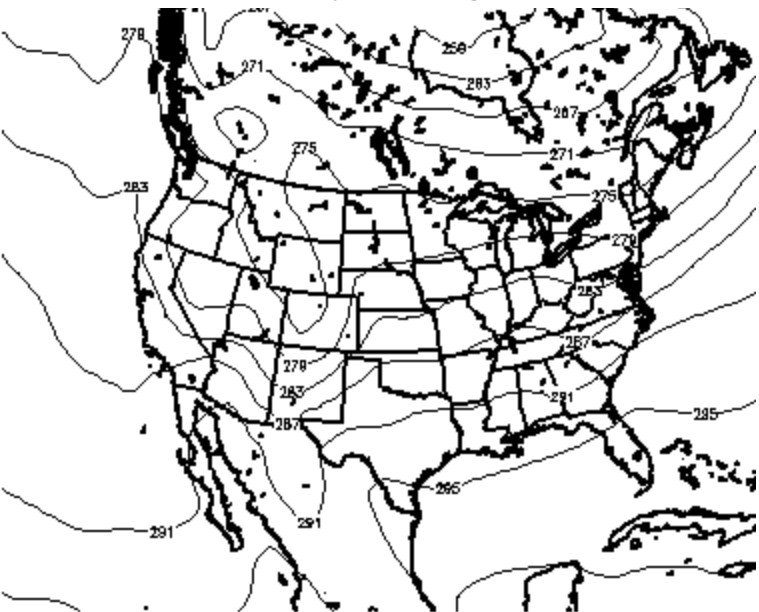
2036



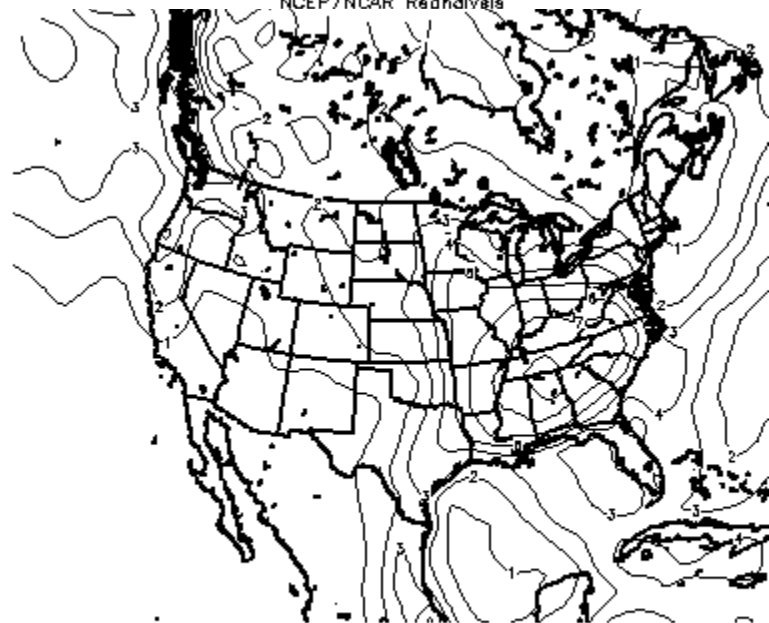
Sea Level Pressure (mb) Composite Mean
Synoptic Type 2036
NCEP/NCAR Reanalyses



500mb Geopotential Height (m) Composite Mean
Synoptic Type 2036
NCEP/NCAR Reanalyses

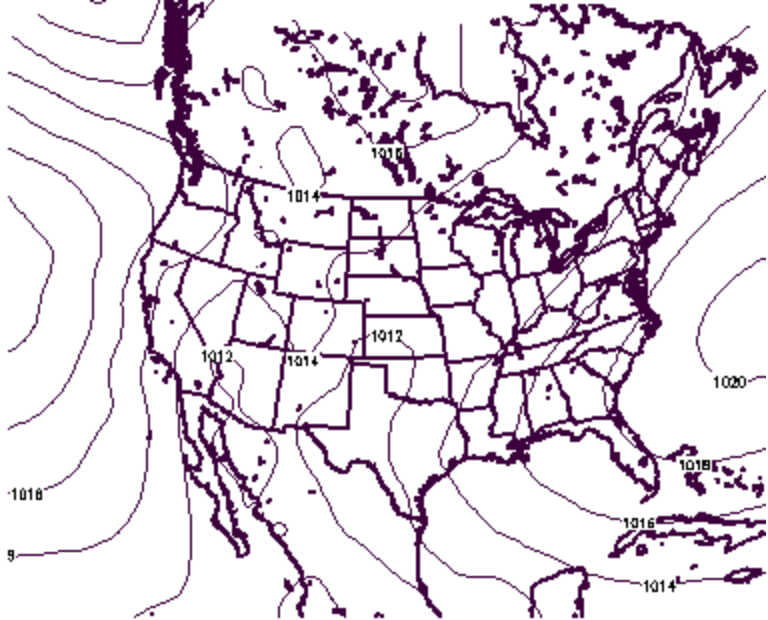


Surface Air Temperature (K) Composite Mean
Synoptic Type 2036
NCEP/NCAR Reanalyses



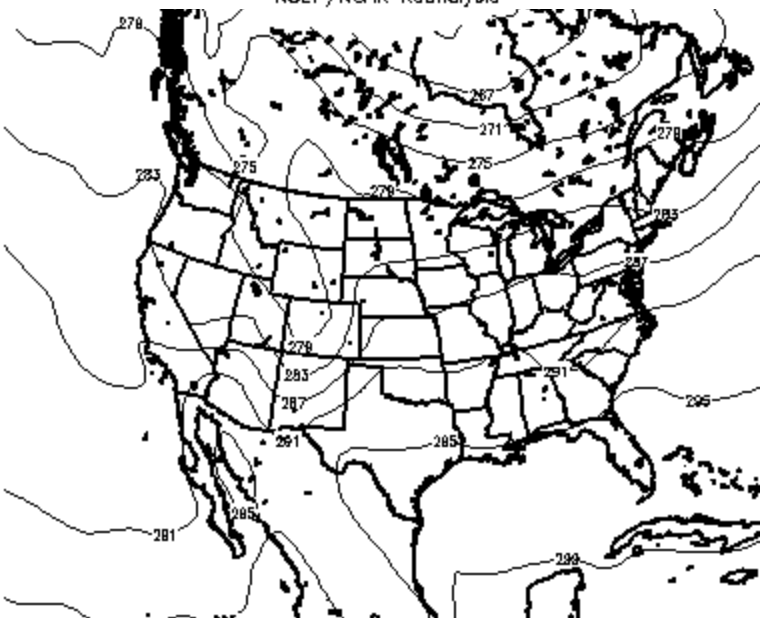
Surface Precipitation Rate (mm/day) Composite Mean
Synoptic Type 2036
NCEP/NCAR Reanalyses

2037



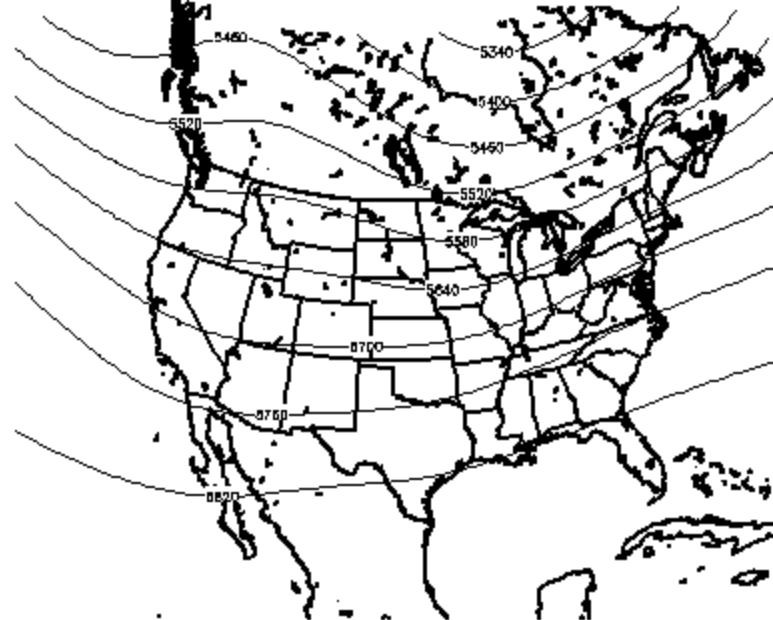
Sea Level Pressure (mb) Composite Mean
Synoptic Type 2037

NCEP/NCAR Reanalysis



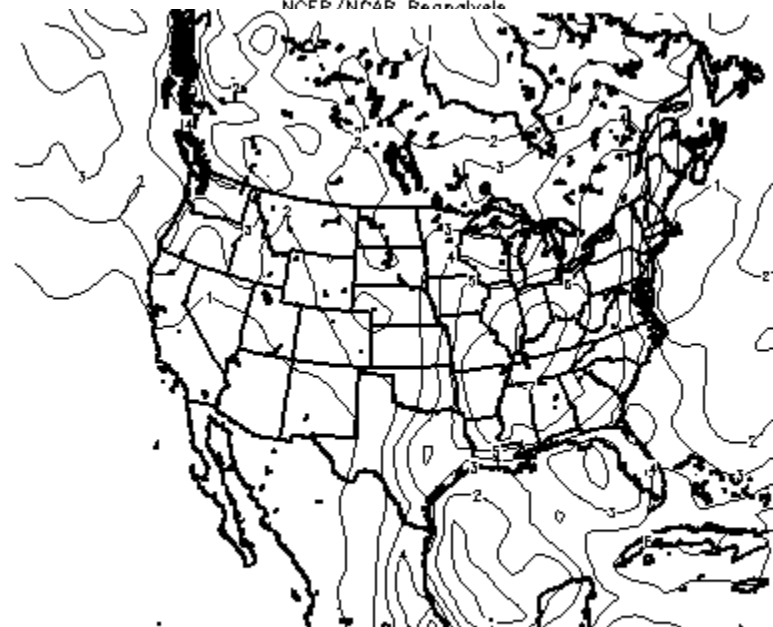
Surface Air Temperature (K) Composite Mean
Synoptic Type 2037

NCEP/NCAR Reanalysis



500mb Geopotential Height (m) Composite Mean
Synoptic Type 2037

NCEP/NCAR Reanalysis

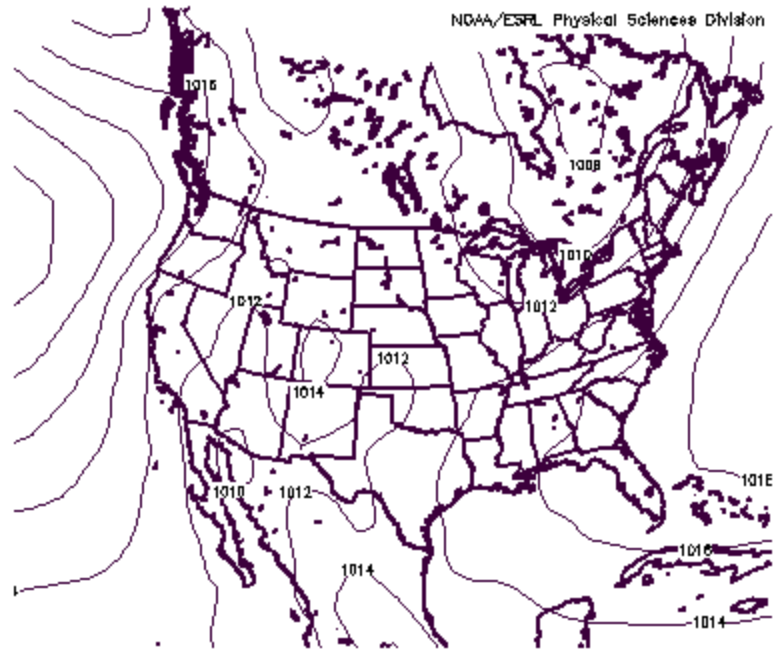


Surface Precipitation Rate (mm/day) Composite Mean
Synoptic Type 2037

NCEP/NCAR Reanalysis

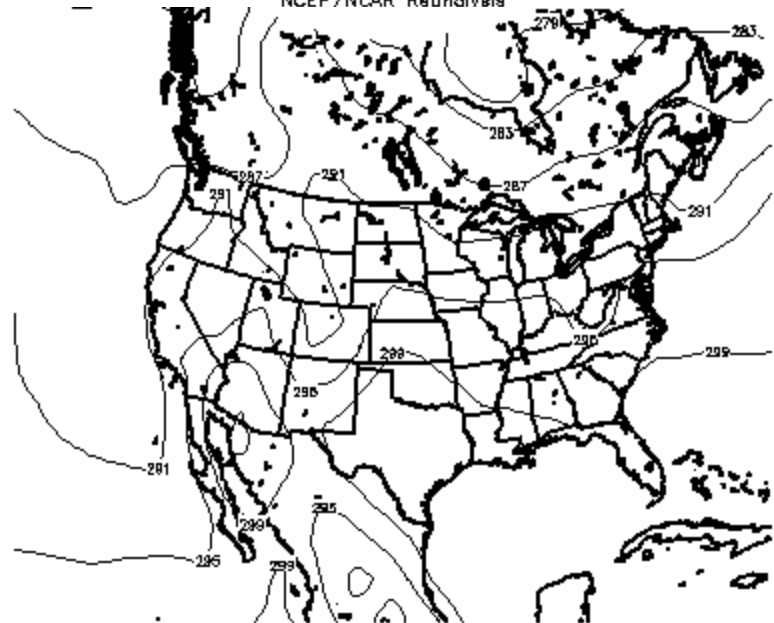
Summer (JJA) Synoptic Types

3006

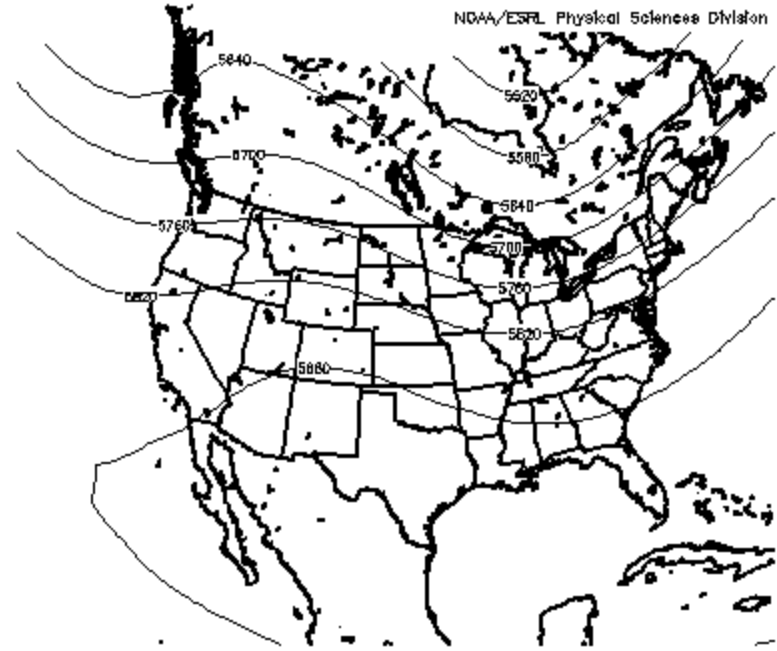


Sea Level Pressure (mb) Composite Mean
Synoptic Type 3006

NCEP/NCAR Reanalyses

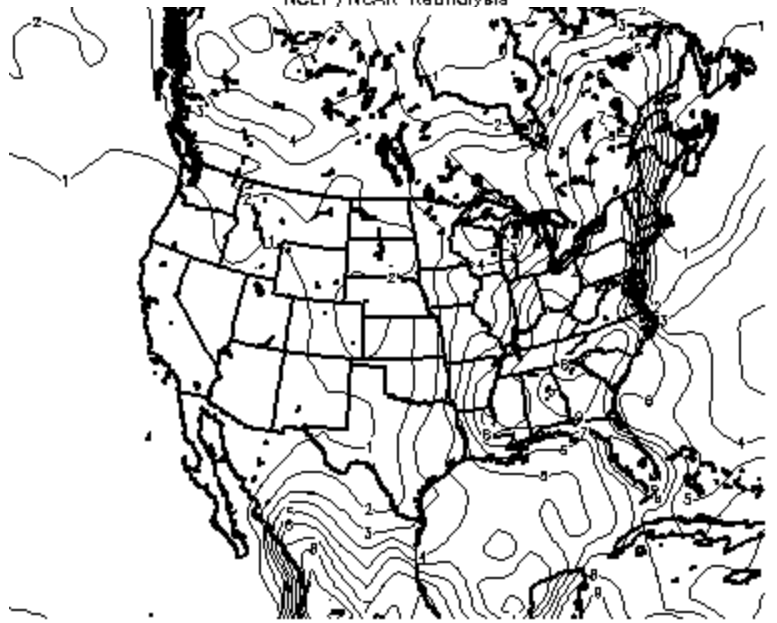


Surface Air Temperature (K) Composite Mean
Synoptic Type 3006



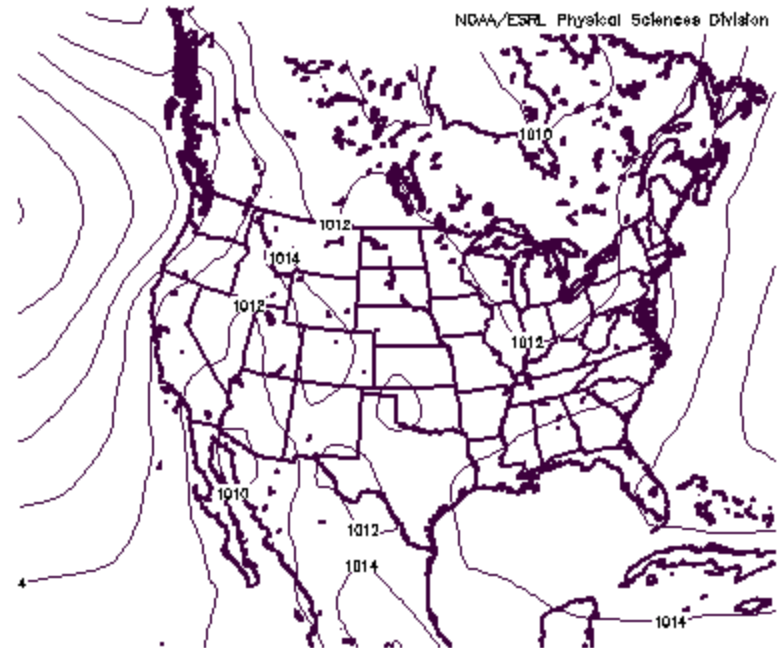
500mb Geopotential Height (m) Composite Mean
Synoptic Type 3006

NCEP/NCAR Reanalyses

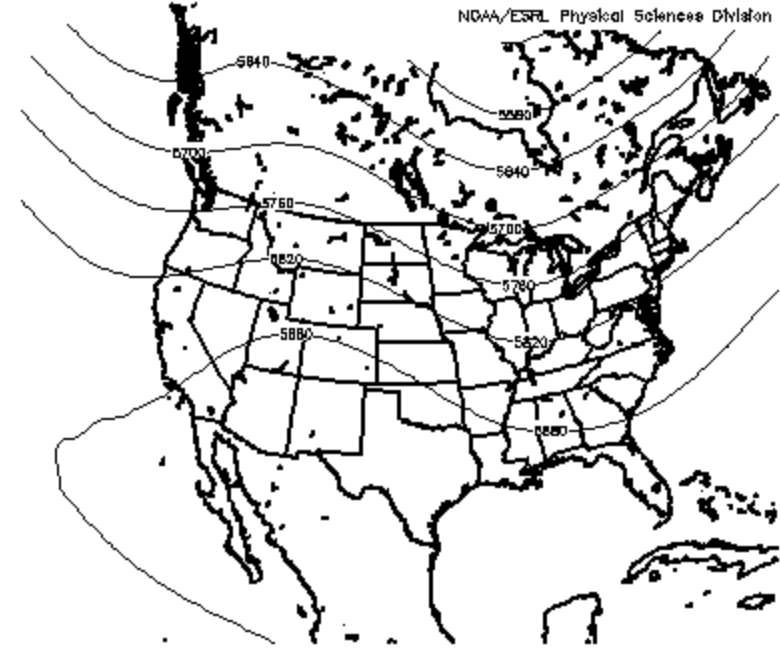


Surface Precipitation Rate (mm/day) Composite Mean
Synoptic Type 3006

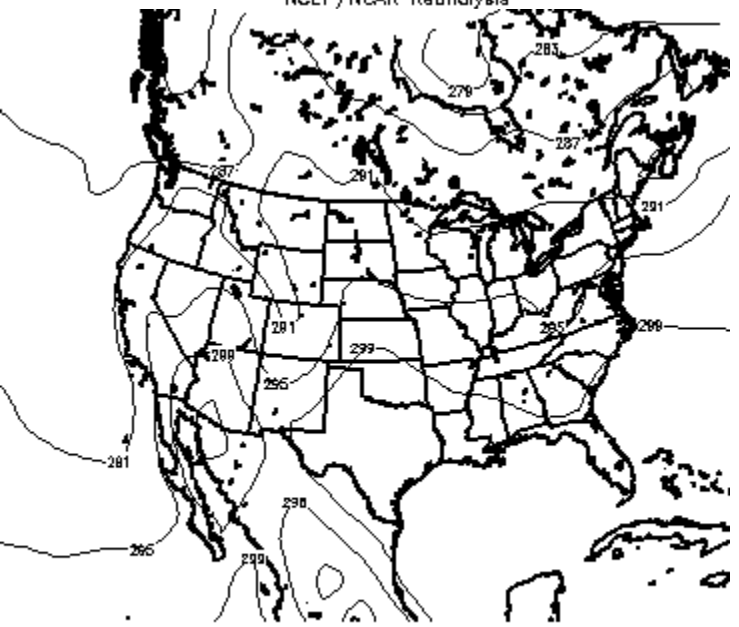
3010



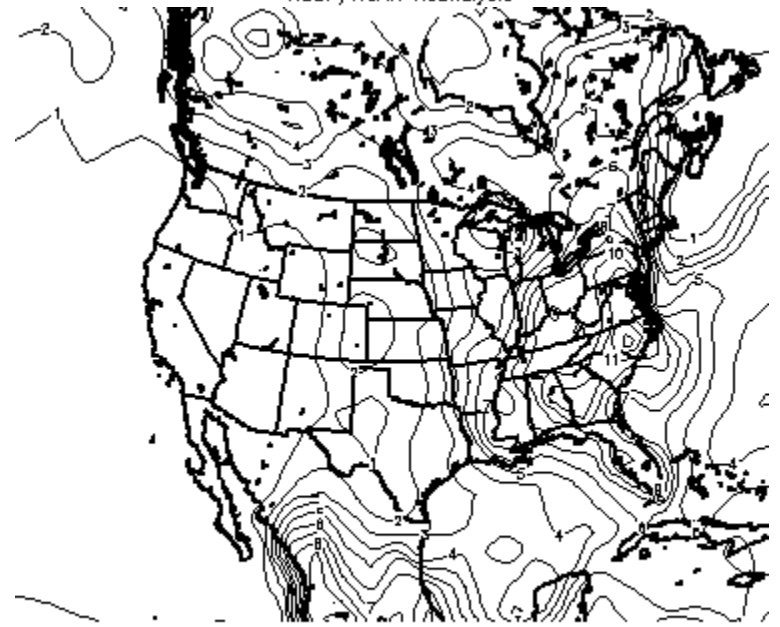
Sea Level Pressure (mb) Composite Mean
Synoptic Type 3010
NCEP/NCAR Reanalysis



500mb Geopotential Height (m) Composite Mean
Synoptic Type 3010
NCEP/NCAR Reanalysis

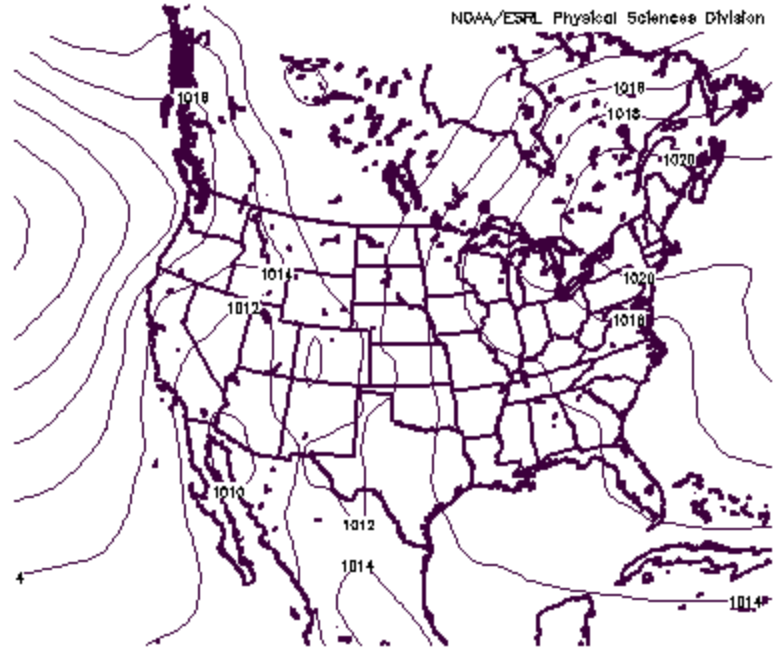


Surface Air Temperature (K) Composite Mean
Synoptic Type 3010



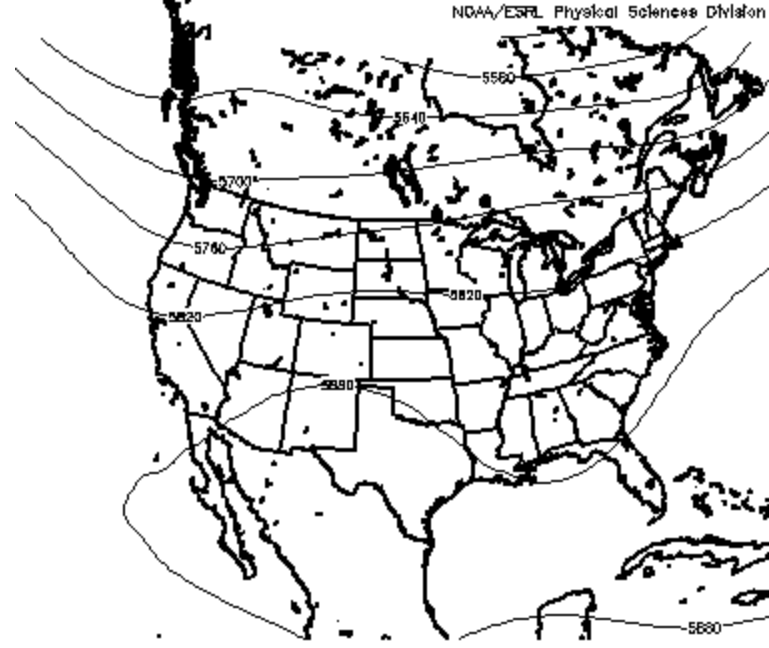
Surface Precipitation Rate (mm/day) Composite Mean
Synoptic Type 3010

3013



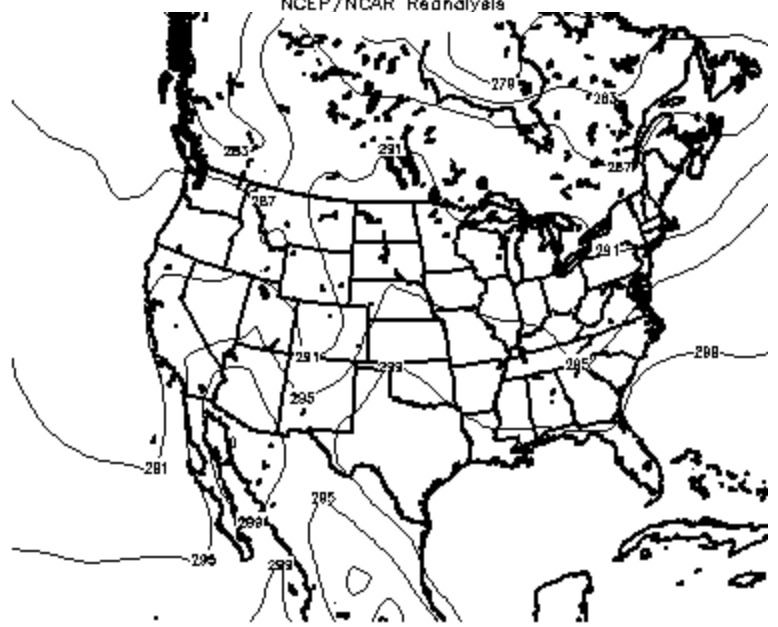
Sea Level Pressure (mb) Composite Mean
Synoptic Type 3013

NCEP/NCAR Reanalysis

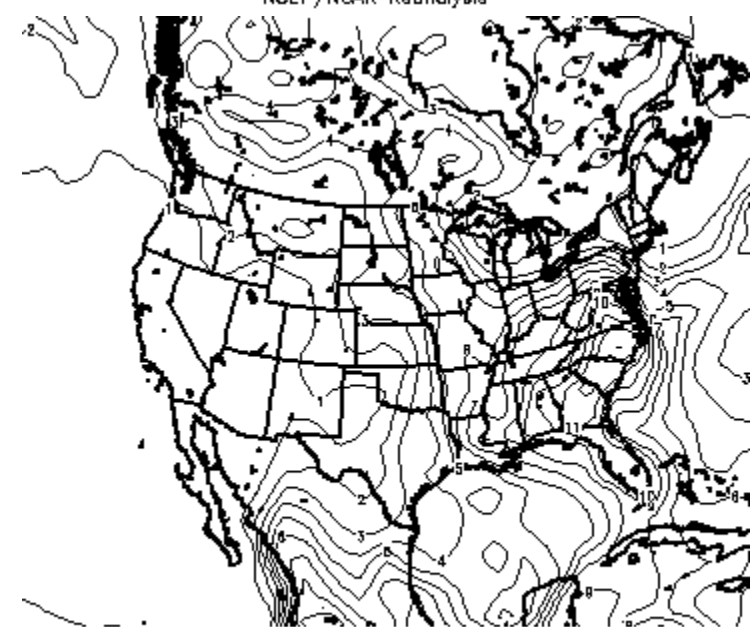


500mb Geopotential Height (m) Composite Mean
Synoptic Type 3013

NCEP/NCAR Reanalysis

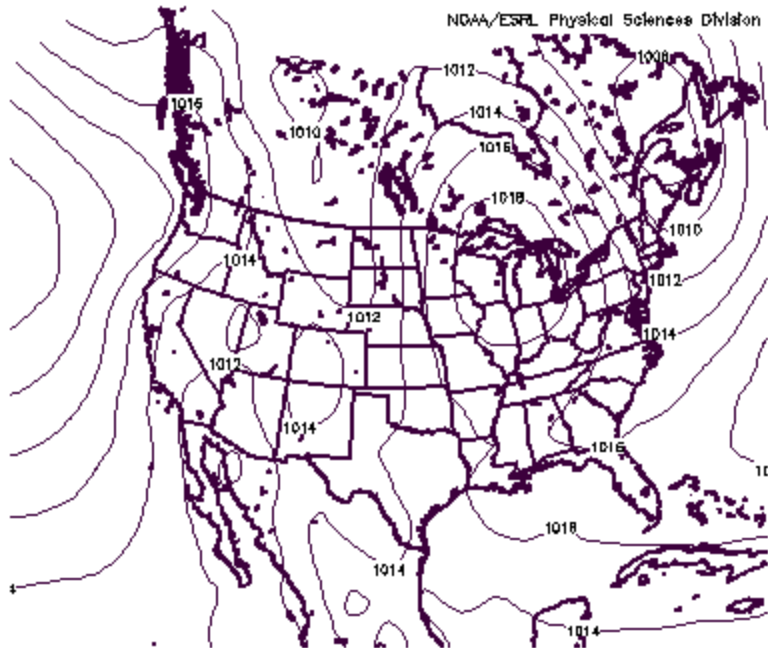


Surface Air Temperature (K) Composite Mean
Synoptic Type 3013

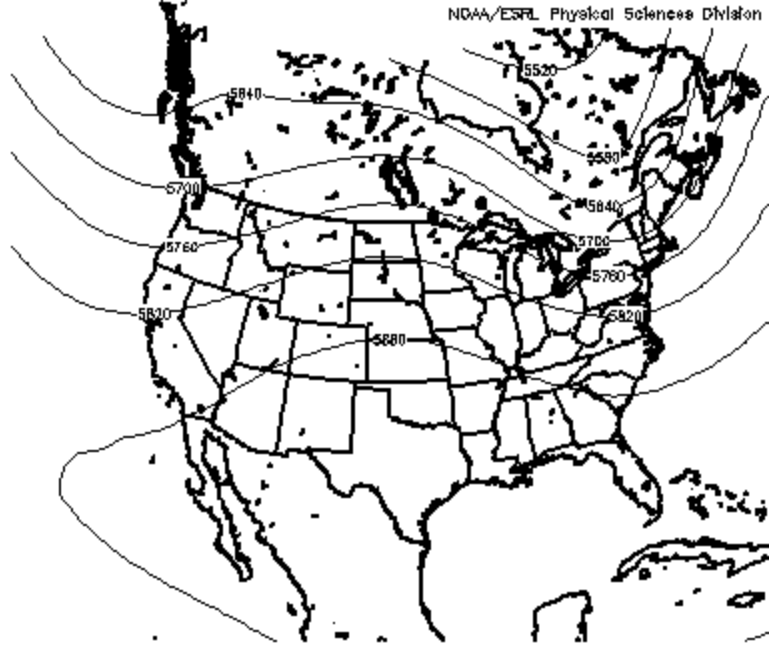


Surface Precipitation Rate (mm/day) Composite Mean
Synoptic Type 3013

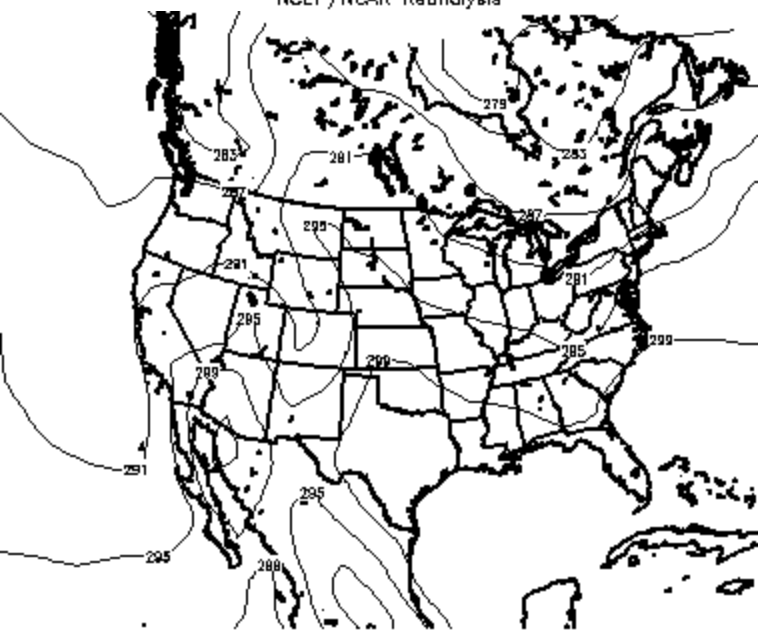
3020



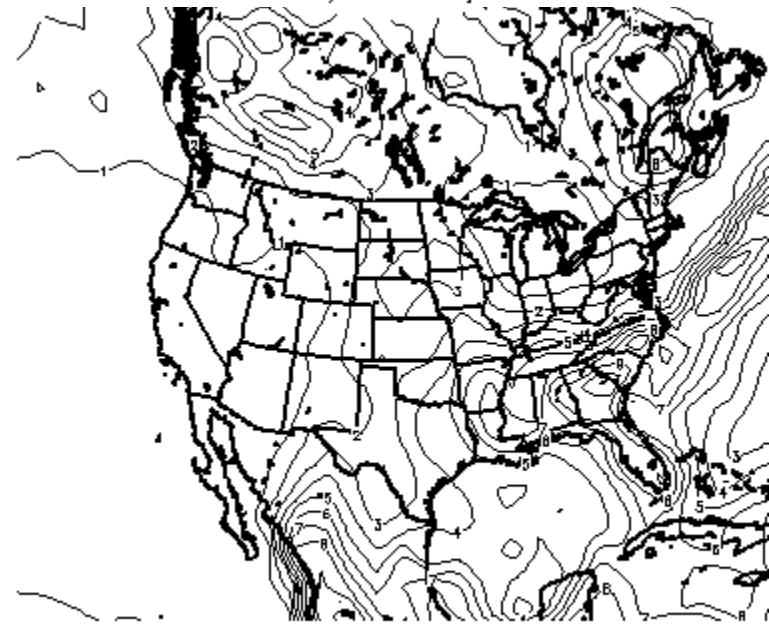
Sea Level Pressure (mb) Composite Mean
Synoptic Type 3020
NCEP/NCAR Reanalysis



500mb Geopotential Height (m) Composite Mean
Synoptic Type 3020
NCEP/NCAR Reanalysis

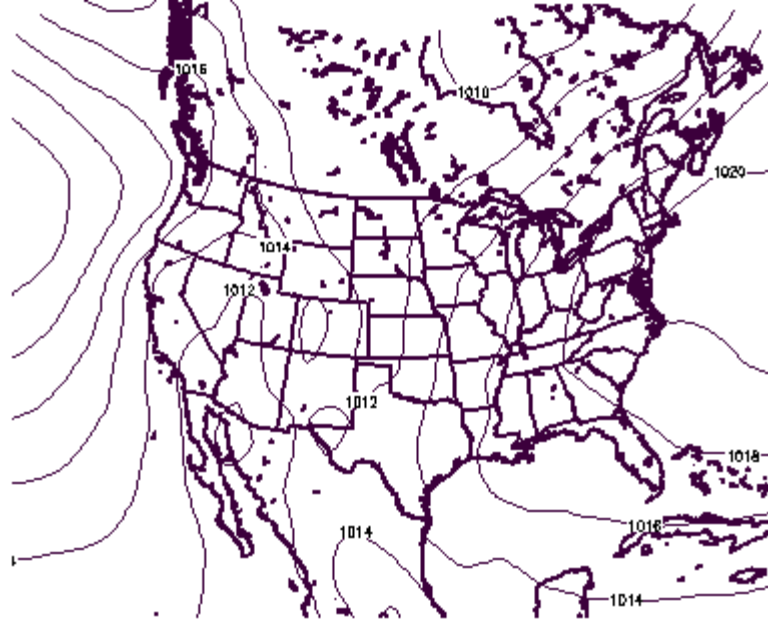


Surface Air Temperature (K) Composite Mean
Synoptic Type 3020

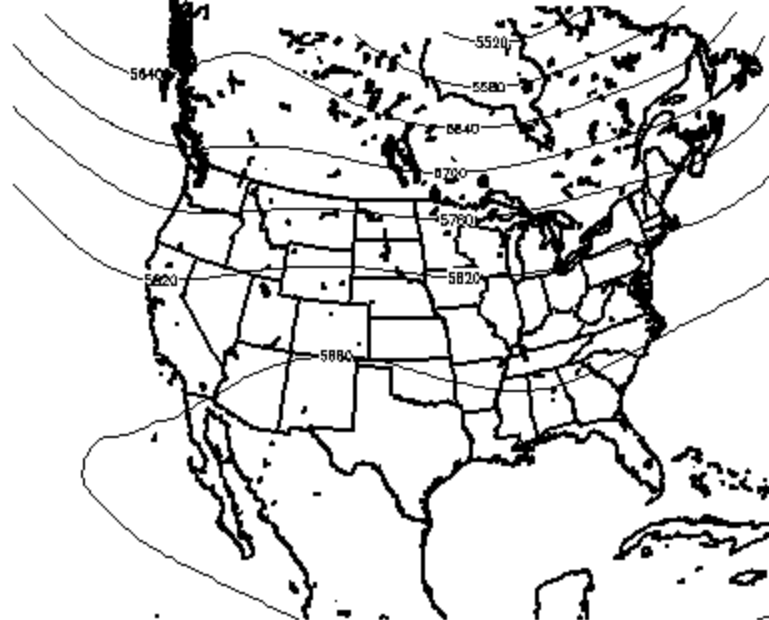


Surface Precipitation Rate (mm/day) Composite Mean
Synoptic Type 3020

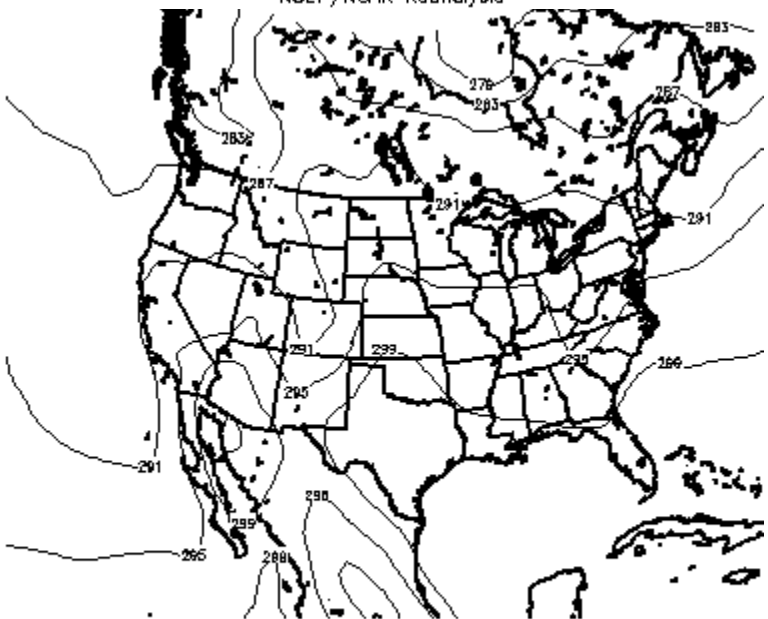
3031



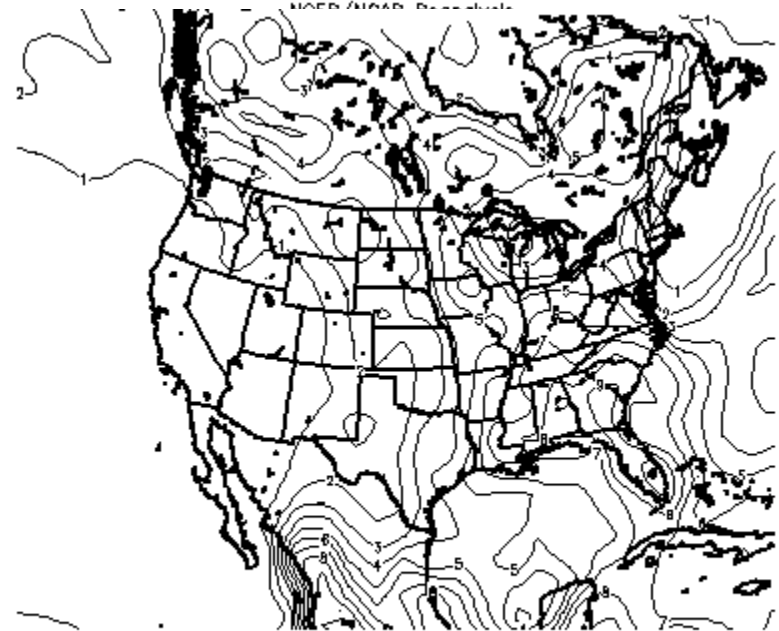
Sea Level Pressure (mb) Composite Mean
Synoptic Type 3031
NCEP/NCAR Reanalysis



500mb Geopotential Height (m) Composite Mean
Synoptic Type 3031
NCEP/NCAR Reanalysis

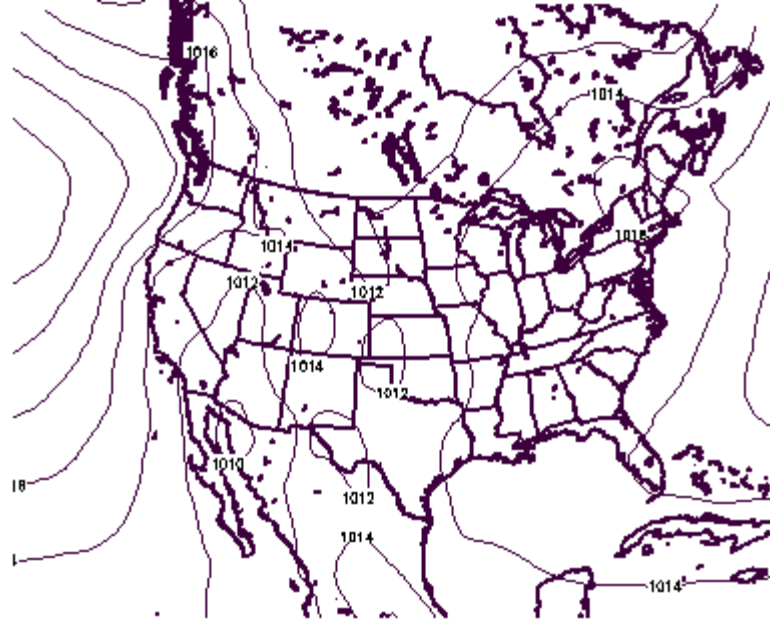


Surface Air Temperature (K) Composite Mean
Synoptic Type 3031
NCEP/NCAR Reanalysis

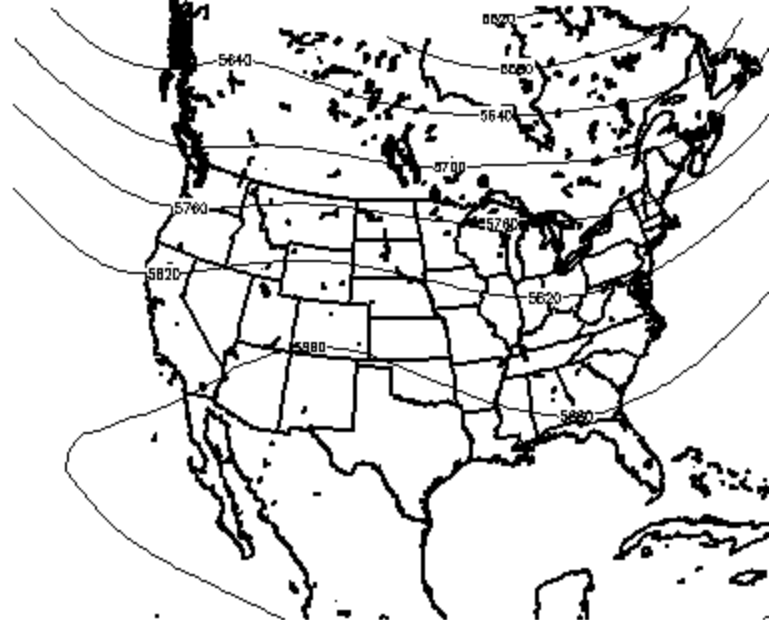


Surface Precipitation Rate (mm/day) Composite Mean
Synoptic Type 3031
NCEP/NCAR Reanalysis

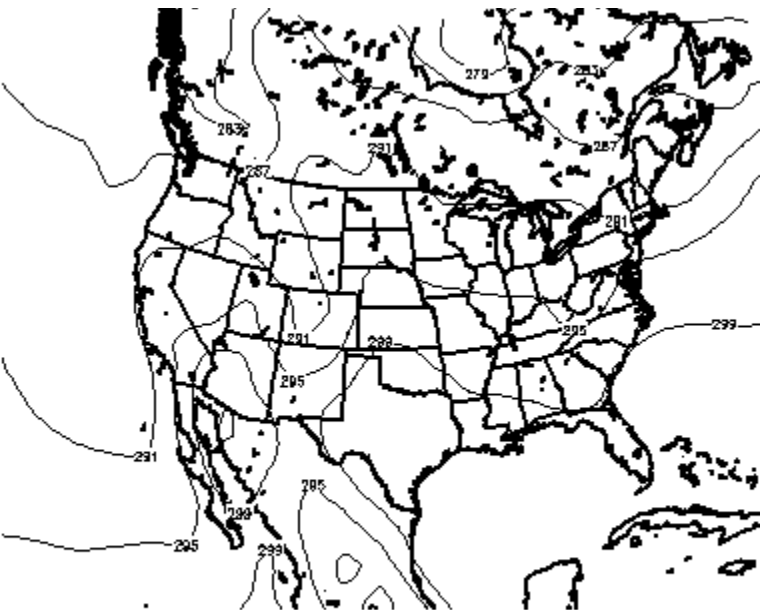
3032



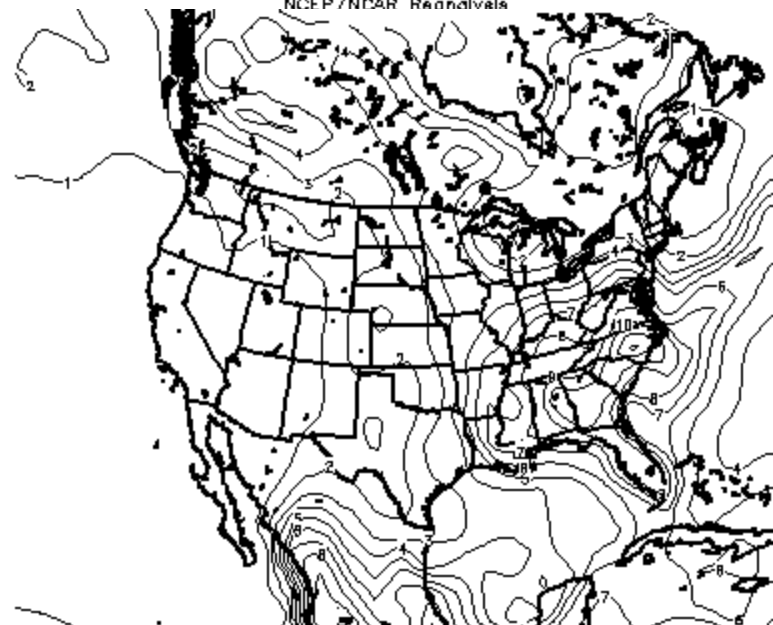
Sea Level Pressure (mb) Composite Mean
Synoptic Type 3032
NCEP/NCAR Reanalyses



500mb Geopotential Height (m) Composite Mean
Synoptic Type 3032
NCEP/NCAR Reanalyses

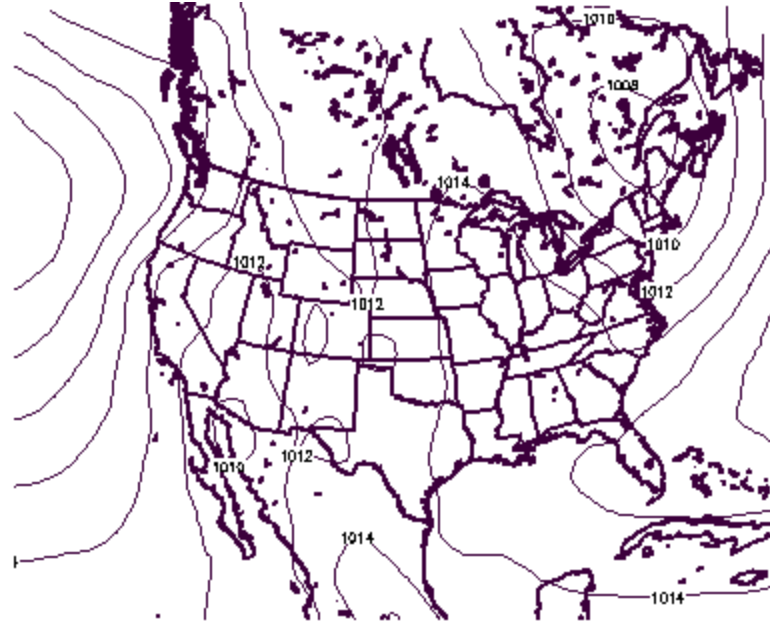


Surface Air Temperature (K) Composite Mean
Synoptic Type 3032
NCEP/NCAR Reanalyses

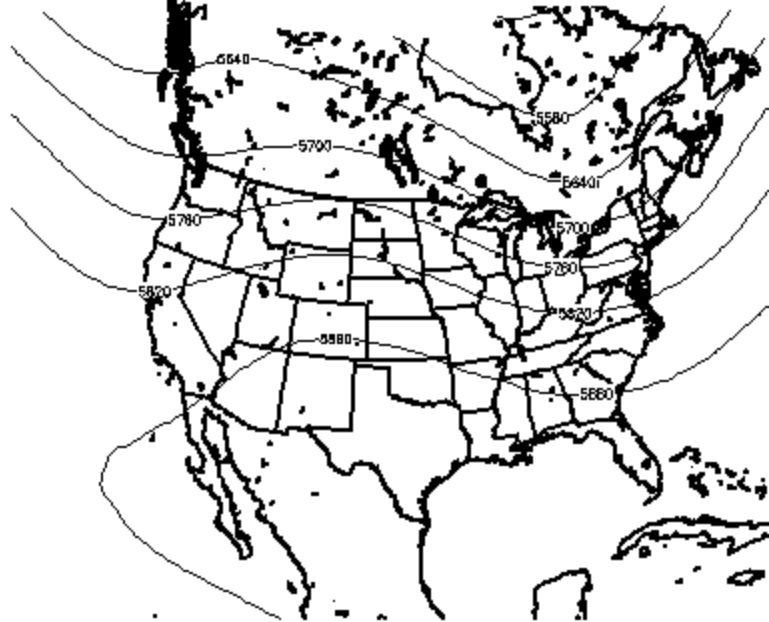


Surface Precipitation Rate (mm/day) Composite Mean
Synoptic Type 3032
NCEP/NCAR Reanalyses

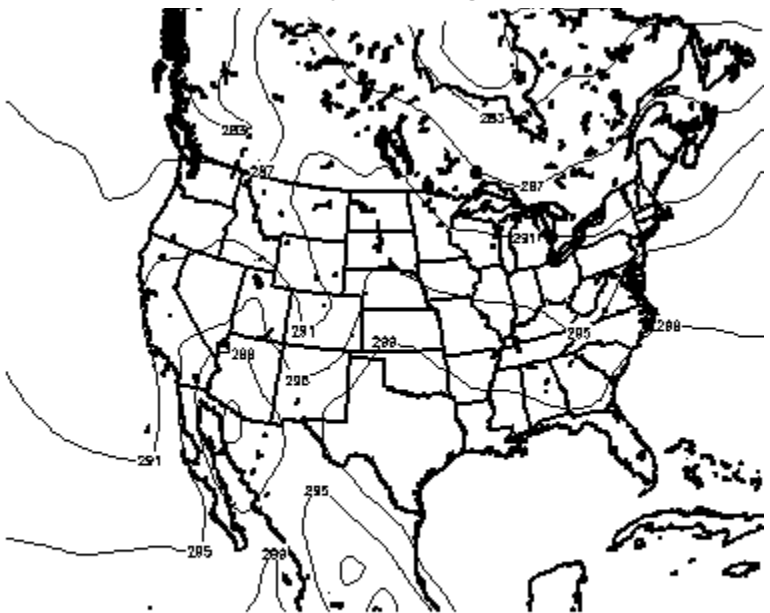
3033



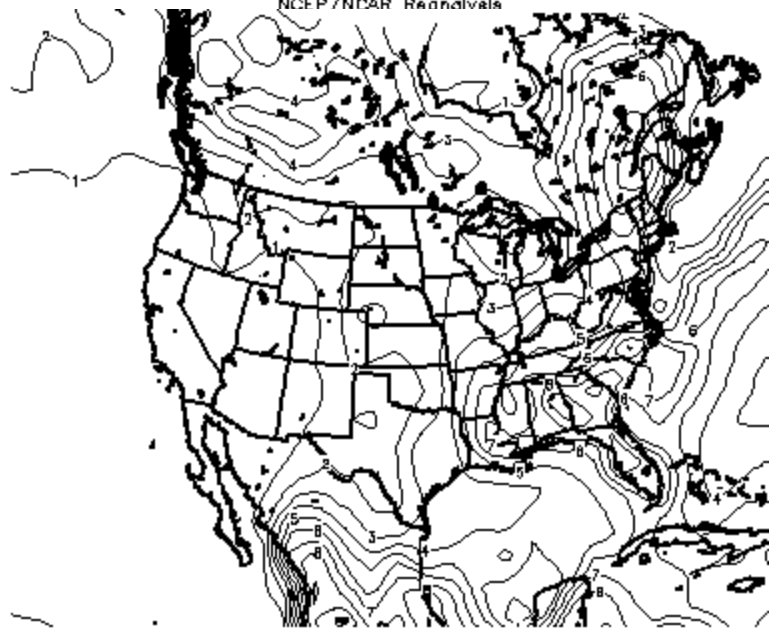
Sea Level Pressure (mb) Composite Mean
Synoptic Type 3033
NCEP/NCAR Reanalyses



500mb Geopotential Height (m) Composite Mean
Synoptic Type 3033
NCEP/NCAR Reanalyses

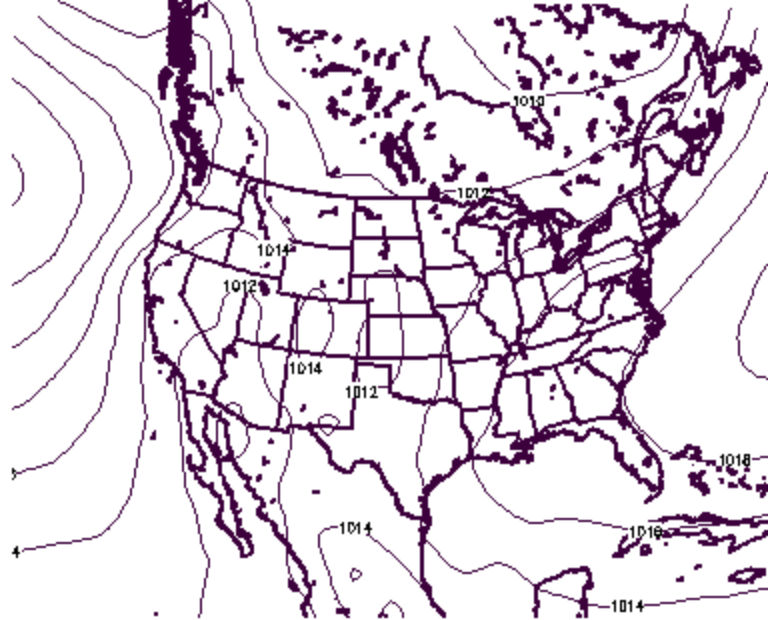


Surface Air Temperature (K) Composite Mean
Synoptic Type 3033
NCEP/NCAR Reanalyses



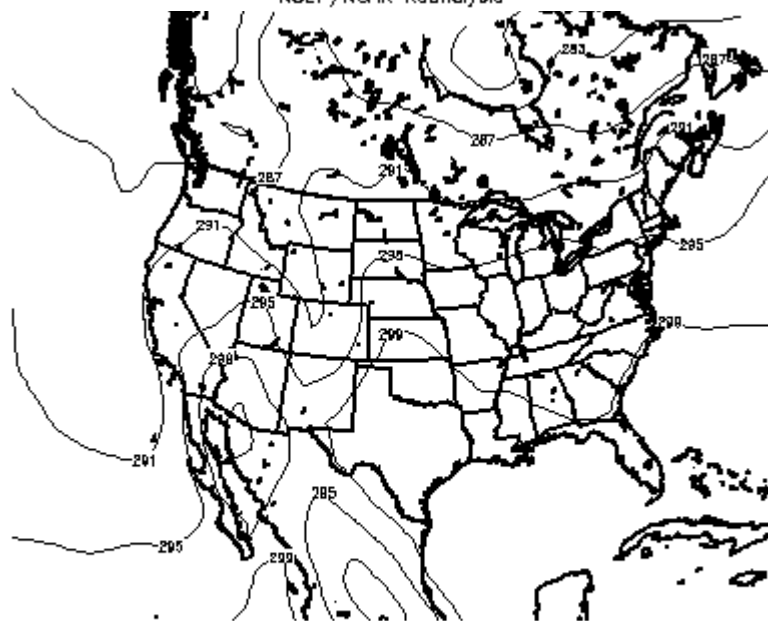
Surface Precipitation Rate (mm/day) Composite Mean
Synoptic Type 3033
NCEP/NCAR Reanalyses

3034



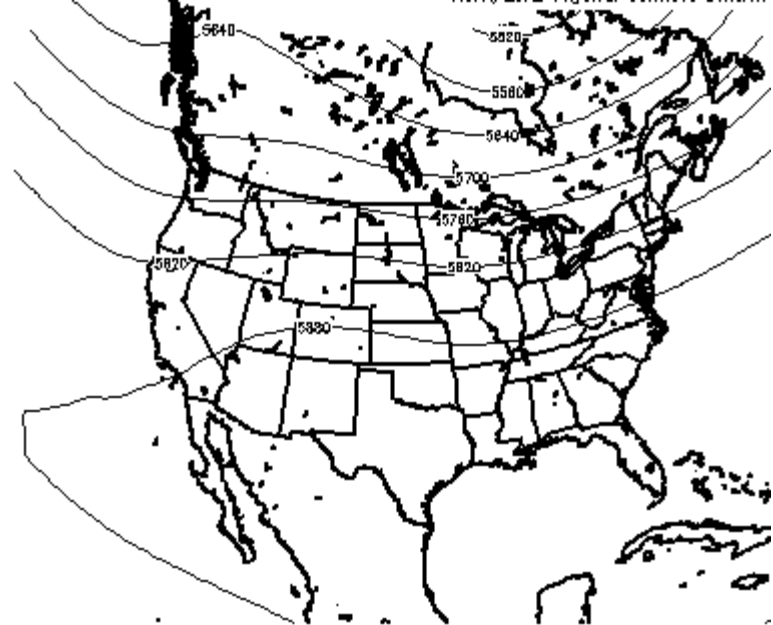
Sea Level Pressure (mb) Composite Mean
Synoptic Type 3034

NCEP/NCAR Reanalysis



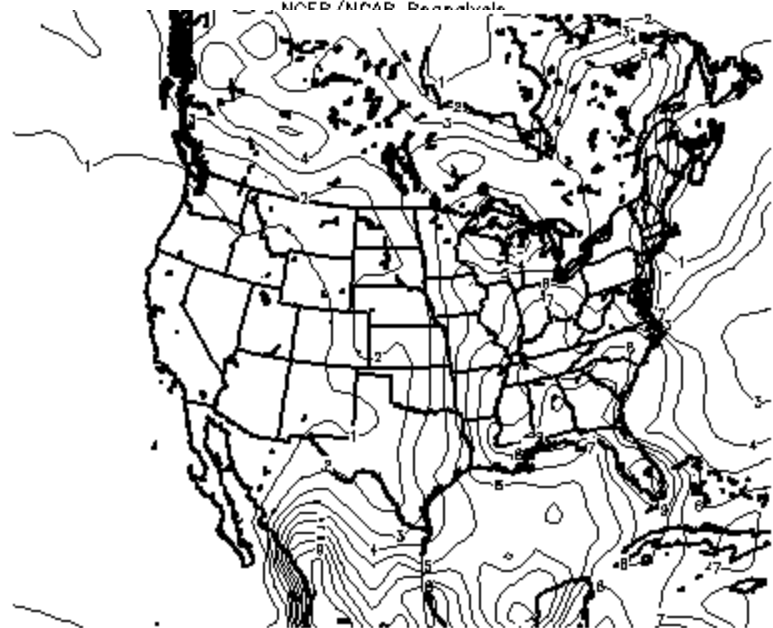
Surface Air Temperature (K) Composite Mean
Synoptic Type 3034

NCEP/NCAR Reanalysis



500mb Geopotential Height (m) Composite Mean
Synoptic Type 3034

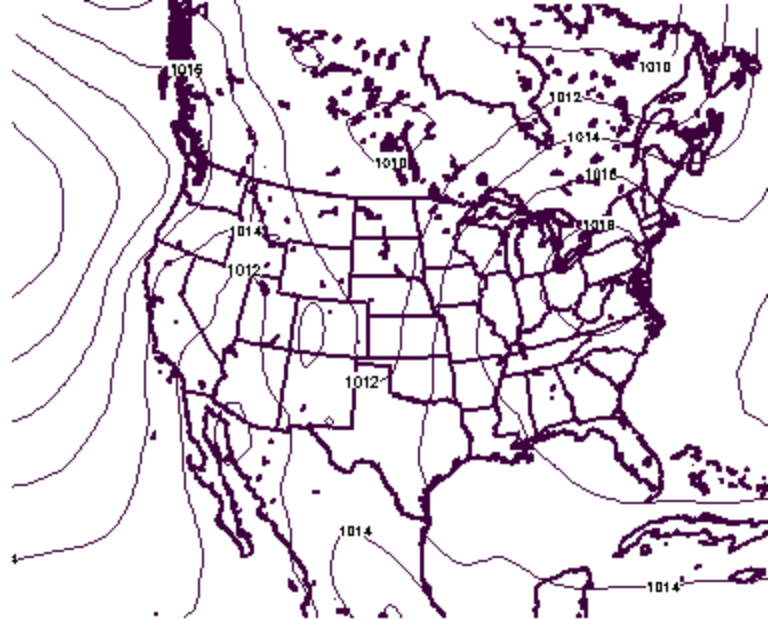
NCEP/NCAR Reanalysis



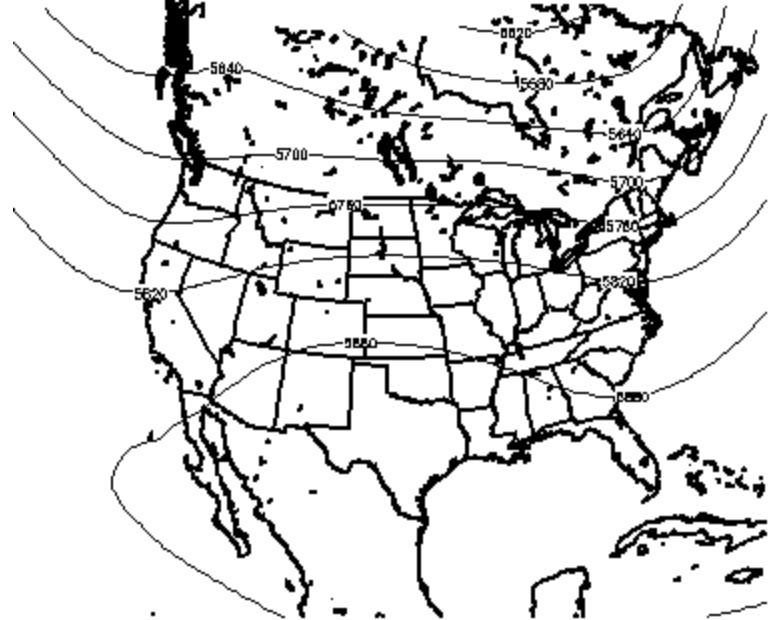
Surface Precipitation Rate (mm/day) Composite Mean
Synoptic Type 3034

NCEP/NCAR Reanalysis

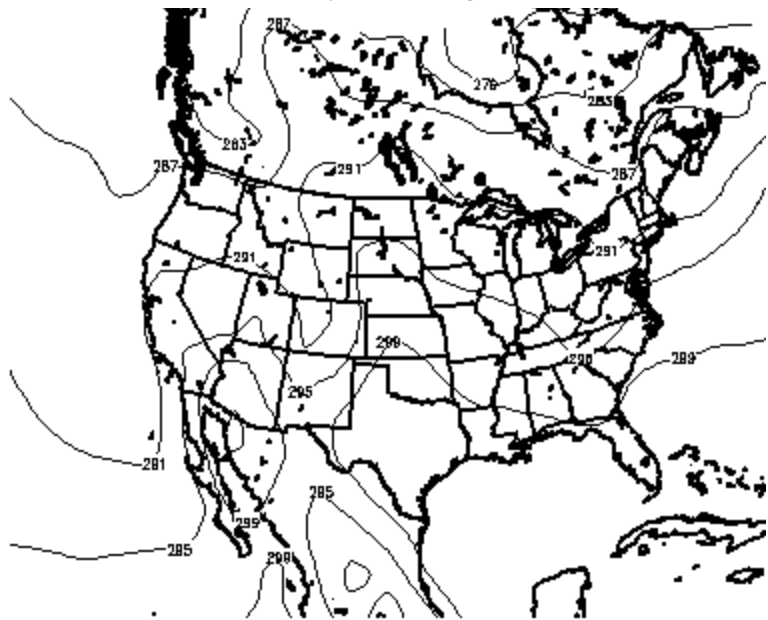
3035



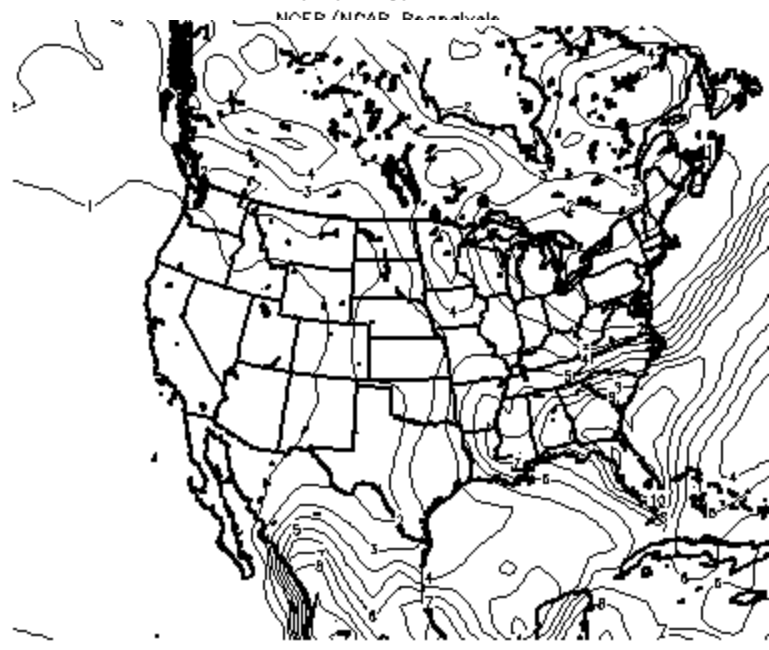
Sea Level Pressure (mb) Composite Mean
Synoptic Type 3035
NCEP/NCAR Reanalyses



500mb Geopotential Height (m) Composite Mean
Synoptic Type 3035
NCEP/NCAR Reanalyses



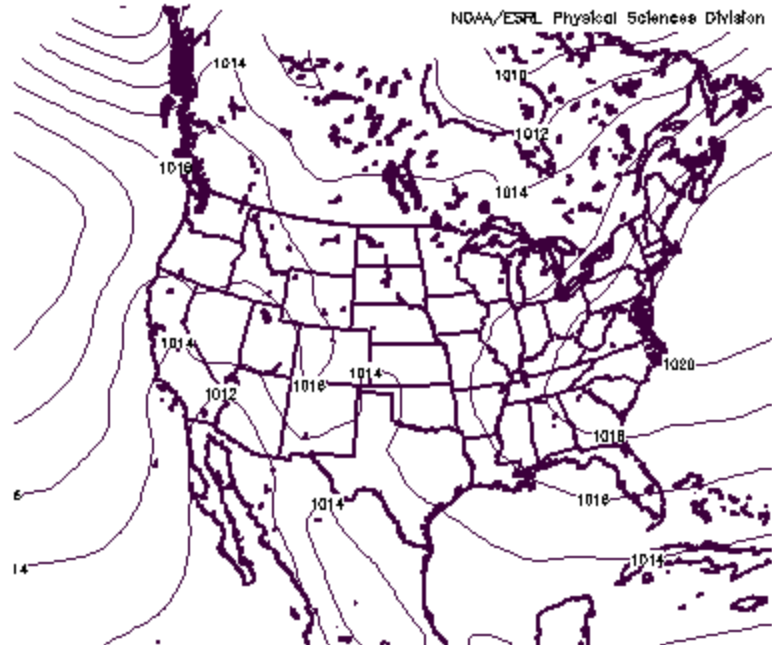
Surface Air Temperature (K) Composite Mean
Synoptic Type 3035
NCEP/NCAR Reanalyses



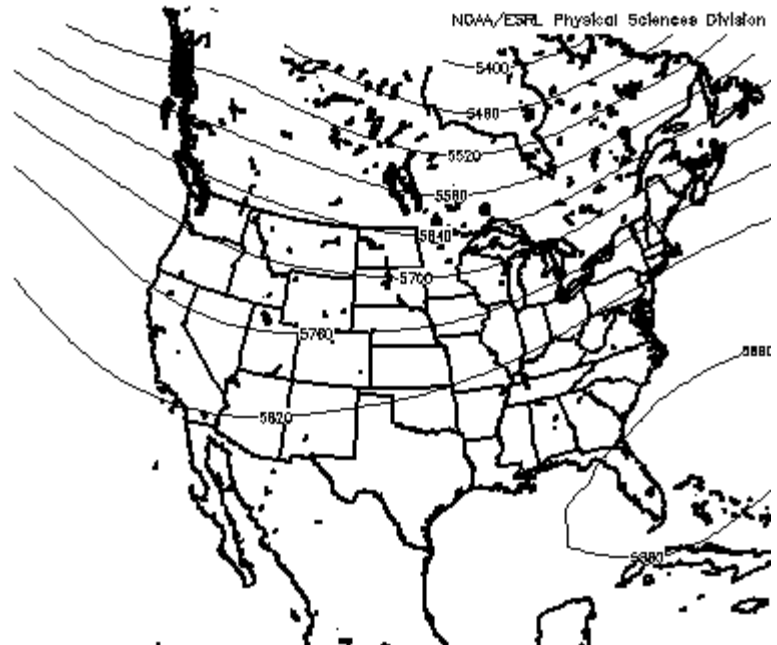
Surface Precipitation Rate (mm/day) Composite Mean
Synoptic Type 3035
NCEP/NCAR Reanalyses

Autumn (SON) Synoptic Types

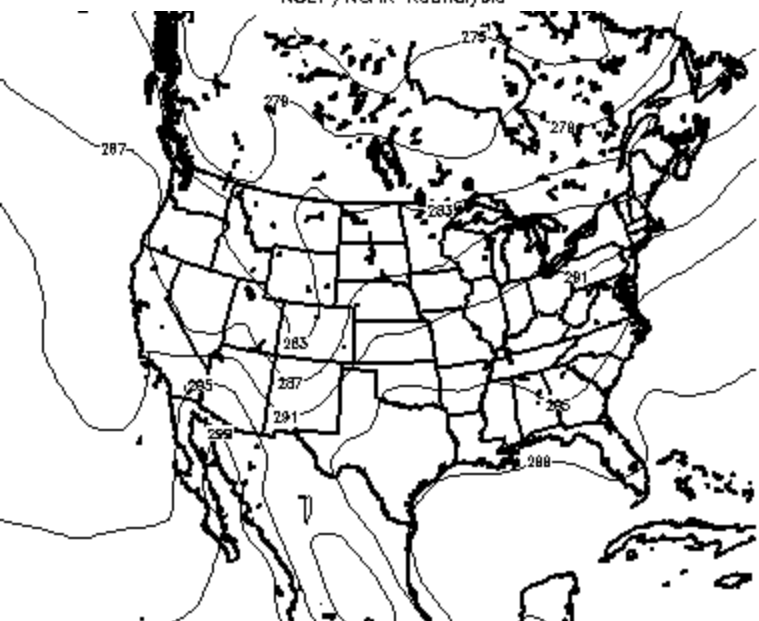
4003



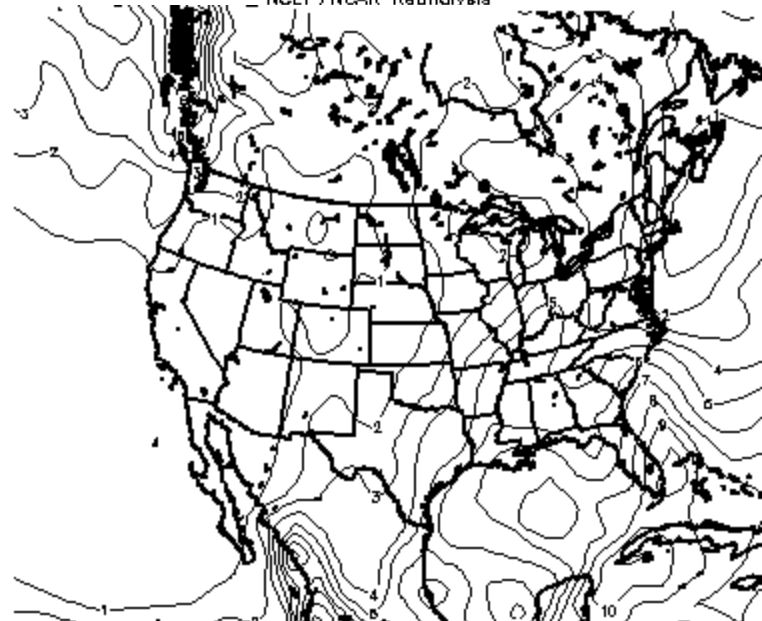
Sea Level Pressure (mb) Composite Mean
Synoptic Type 4003
NCEP/NCAR Reanalysis



500mb Geopotential Height (m) Composite Mean
Synoptic Type 4003
NCEP/NCAR Reanalysis

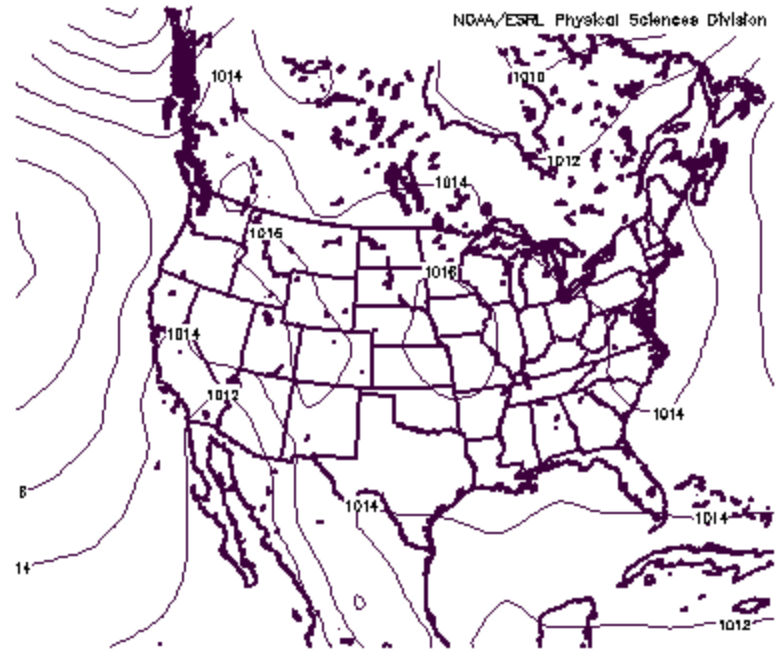


Surface Air Temperature (K) Composite Mean
Synoptic Type 4003

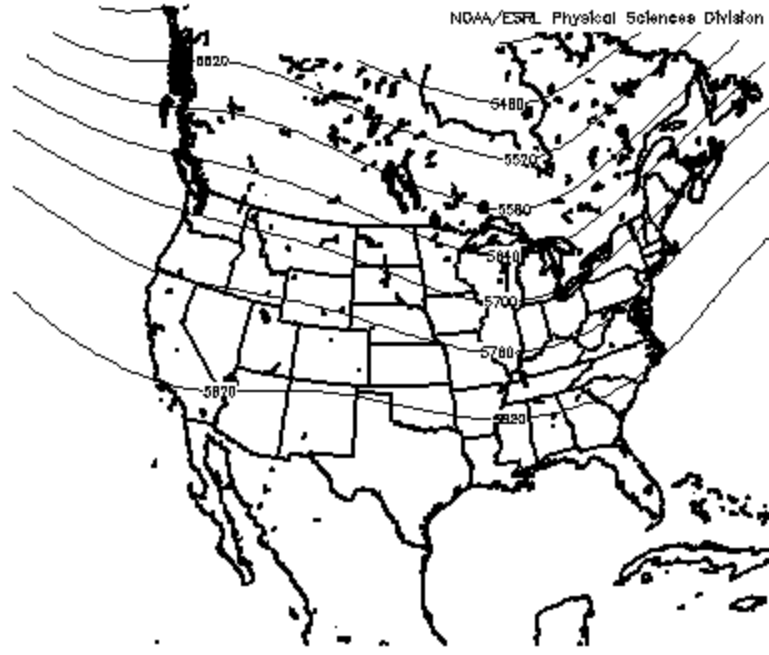


Surface Precipitation Rate (mm/day) Composite Mean
Synoptic Type 4003

4004



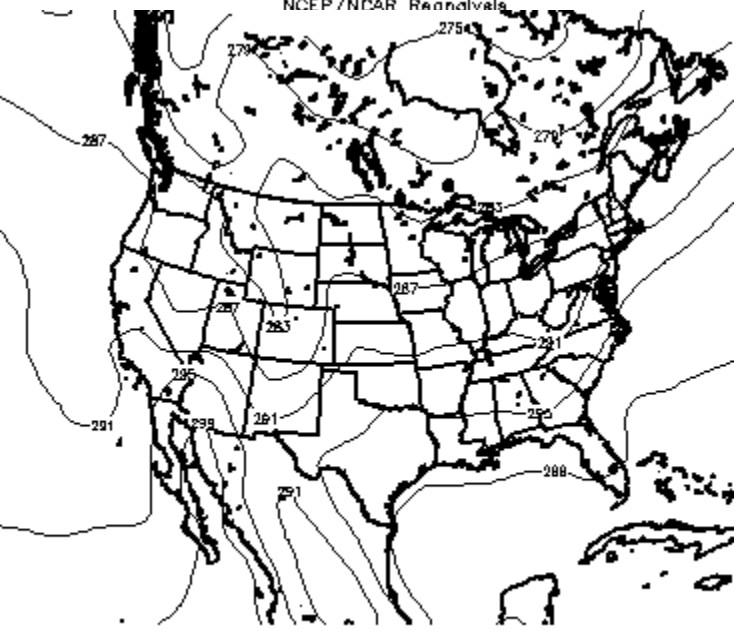
Sea Level Pressure (mb) Composite Mean
Synoptic Type 4004



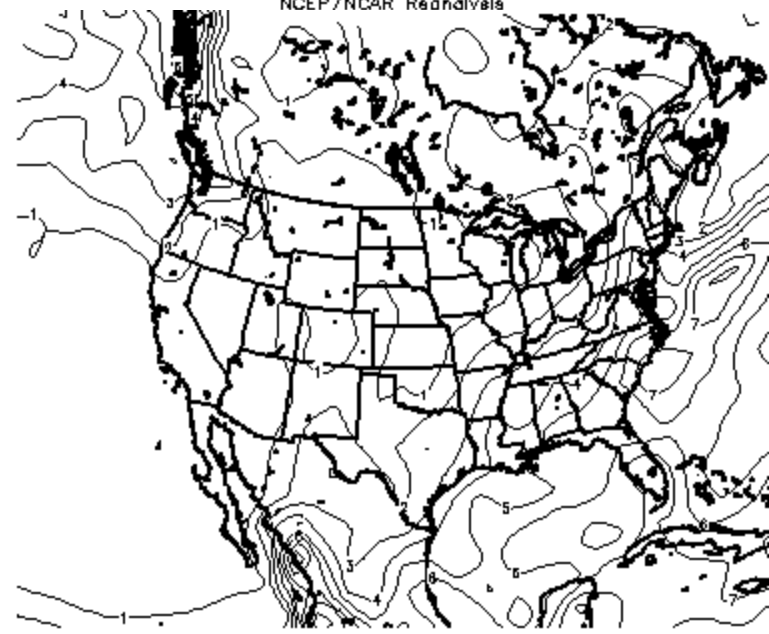
500mb Geopotential Height (m) Composite Mean
Synoptic Type 4004

NCEP/NCAR Reanalysis

NCEP/NCAR Reanalysis

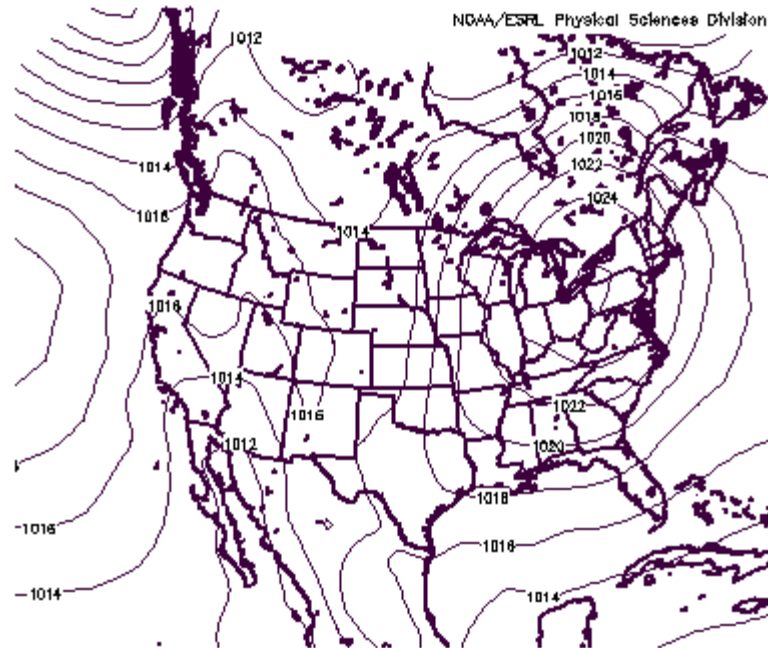


Surface Air Temperature (K) Composite Mean
Synoptic Type 4004



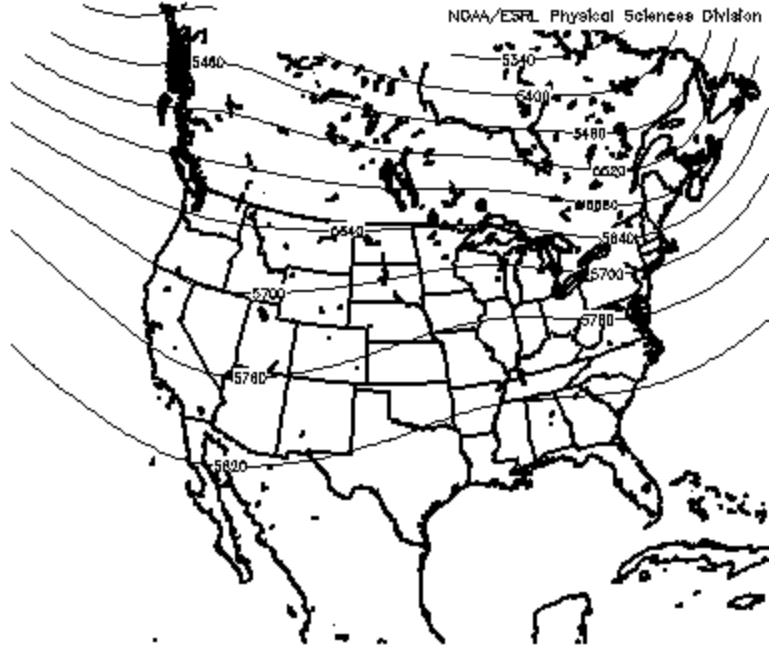
Surface Precipitation Rate (mm/day) Composite Mean
Synoptic Type 4004

4006



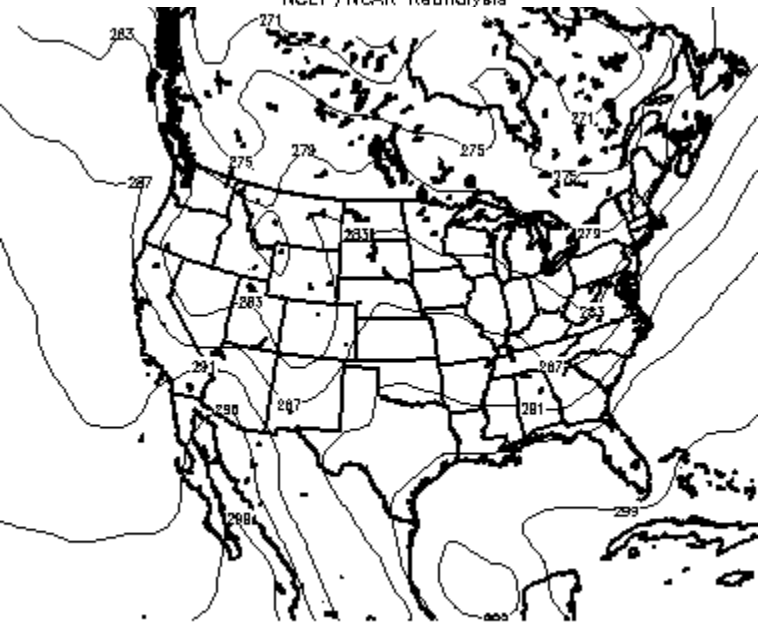
Sea Level Pressure (mb) Composite Mean
Synoptic Type 4006

NCEP/NCAR Reanalysis

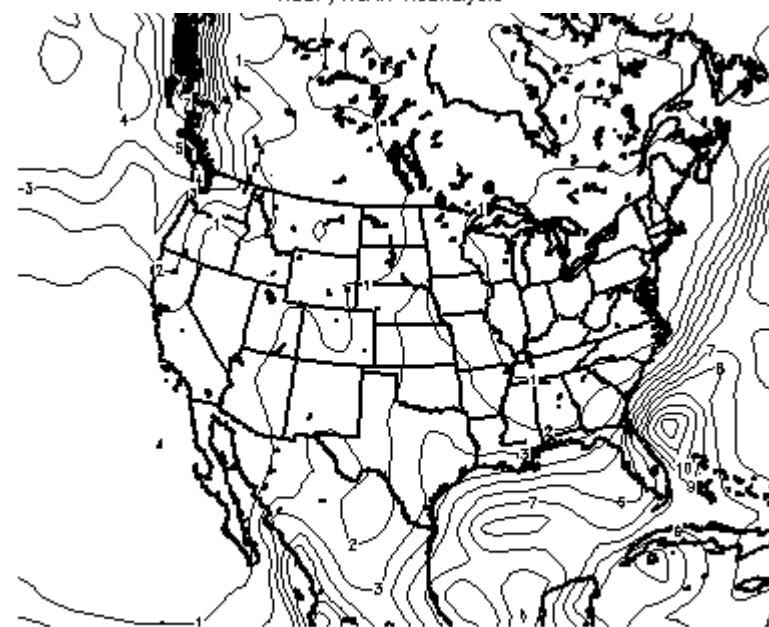


500mb Geopotential Height (m) Composite Mean
Synoptic Type 4006

NCEP/NCAR Reanalysis

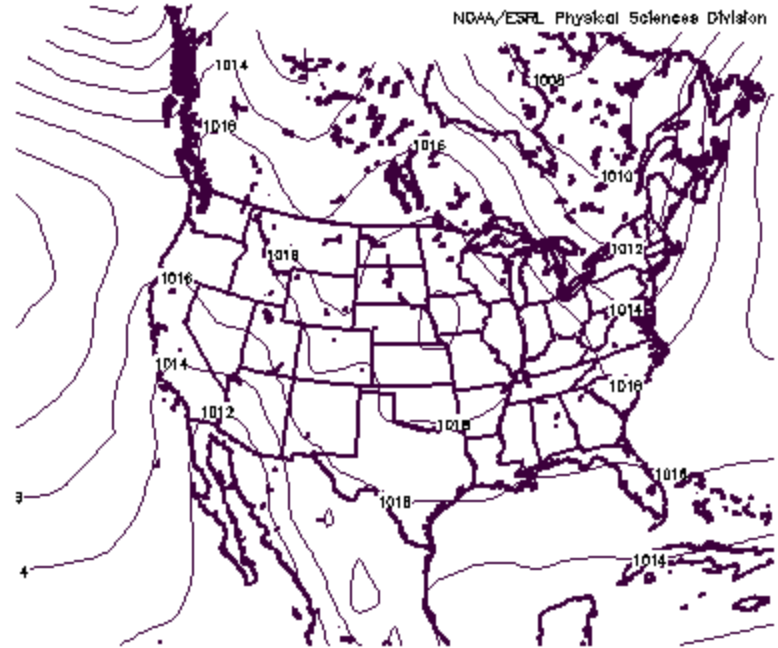


Surface Air Temperature (K) Composite Mean
Synoptic Type 4006



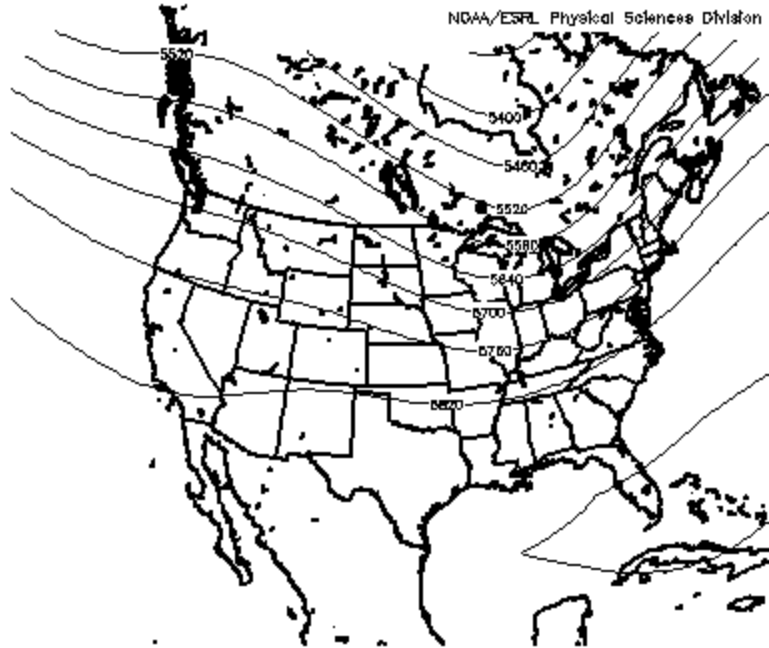
Surface Precipitation Rate (mm/day) Composite Mean
Synoptic Type 4006

4009



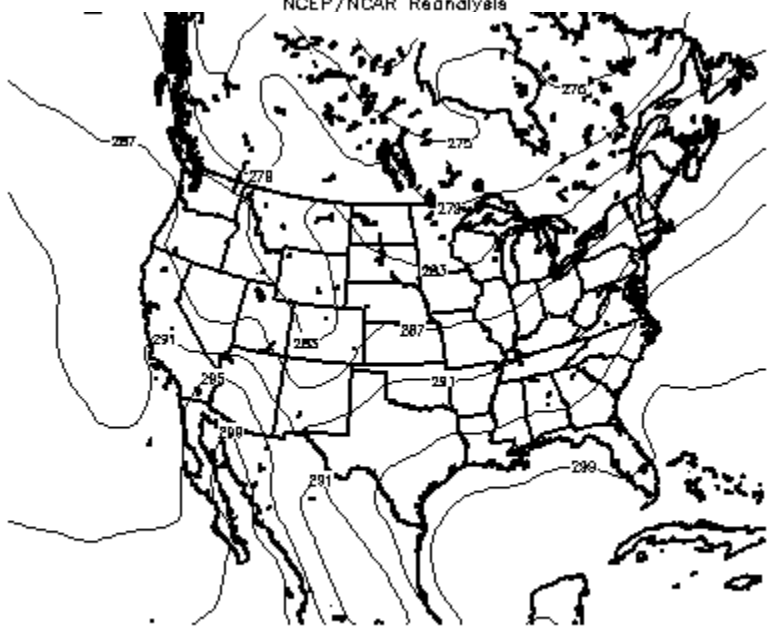
Sea Level Pressure (mb) Composite Mean
Synoptic Type 4009

NCEP/NCAR Reanalysis

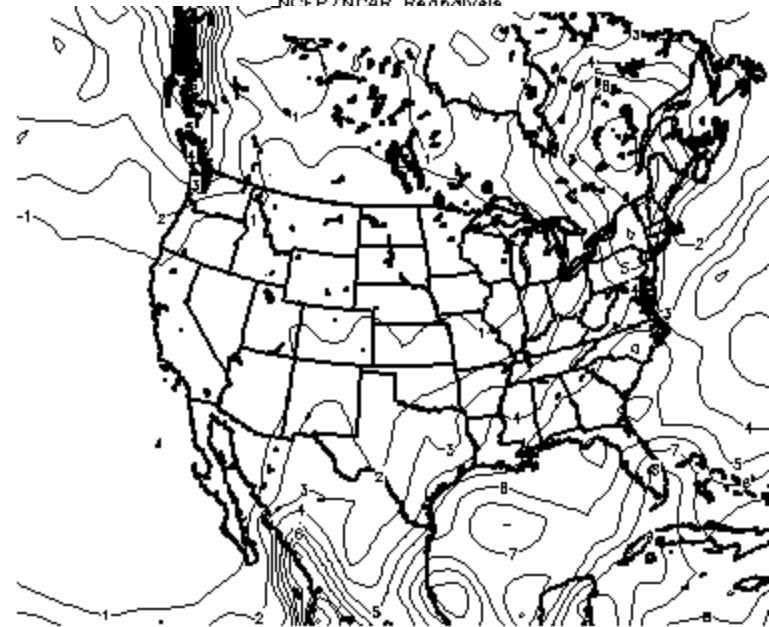


500mb Geopotential Height (m) Composite Mean
Synoptic Type 4009

NCEP/NCAR Reanalysis

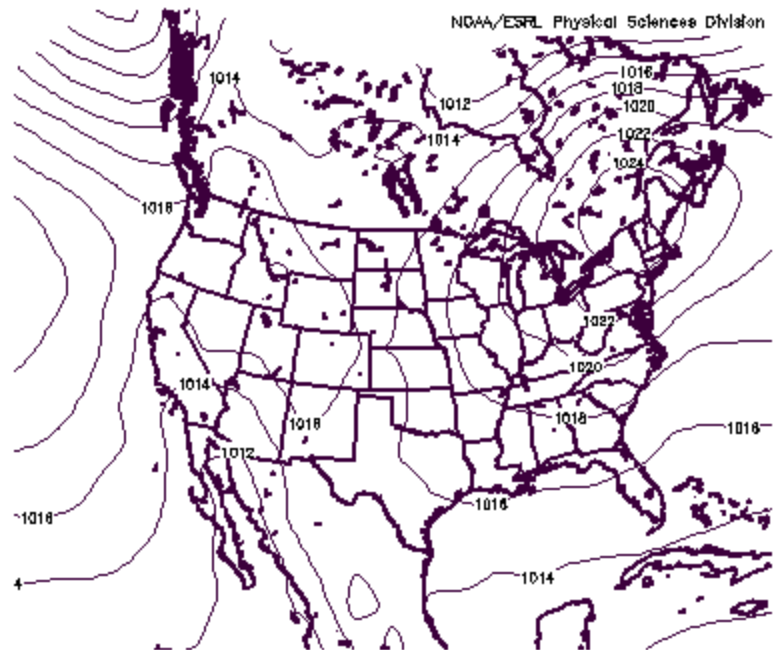


Surface Air Temperature (K) Composite Mean
Synoptic Type 4009

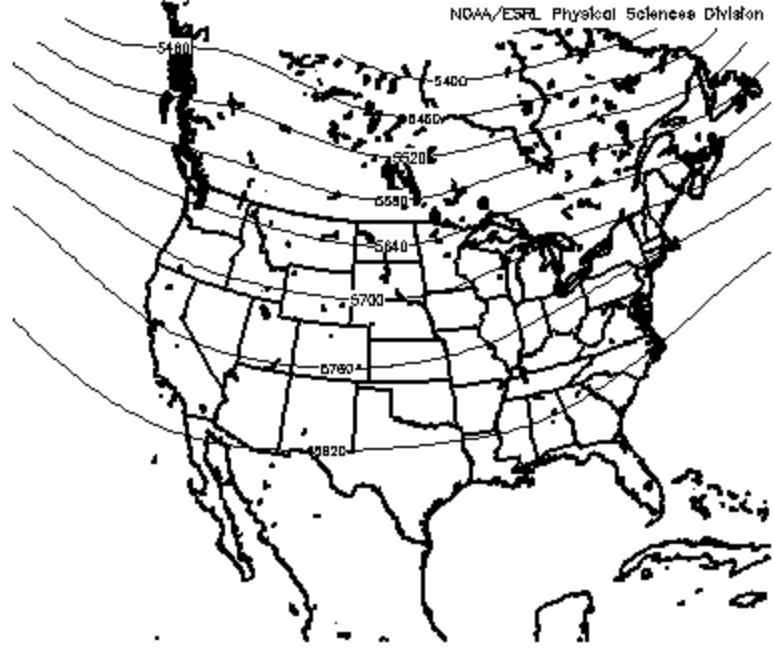


Surface Precipitation Rate (mm/day) Composite Mean
Synoptic Type 4009

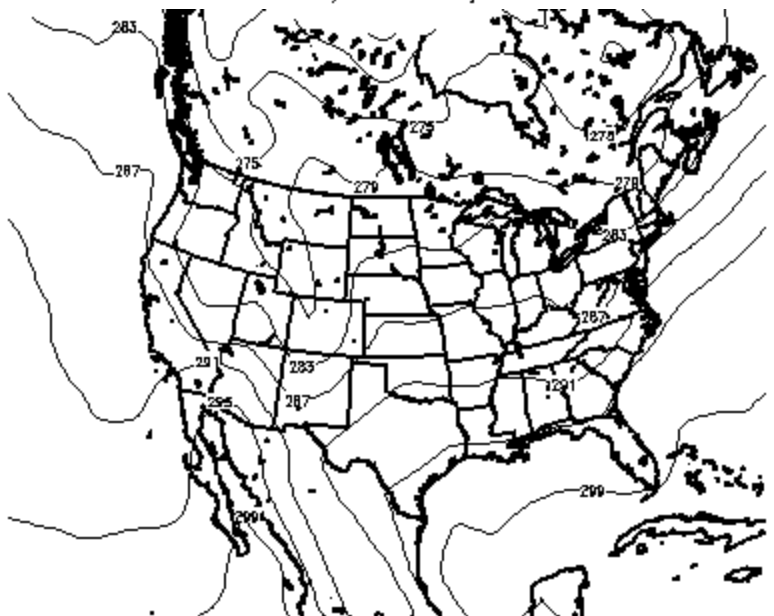
4010



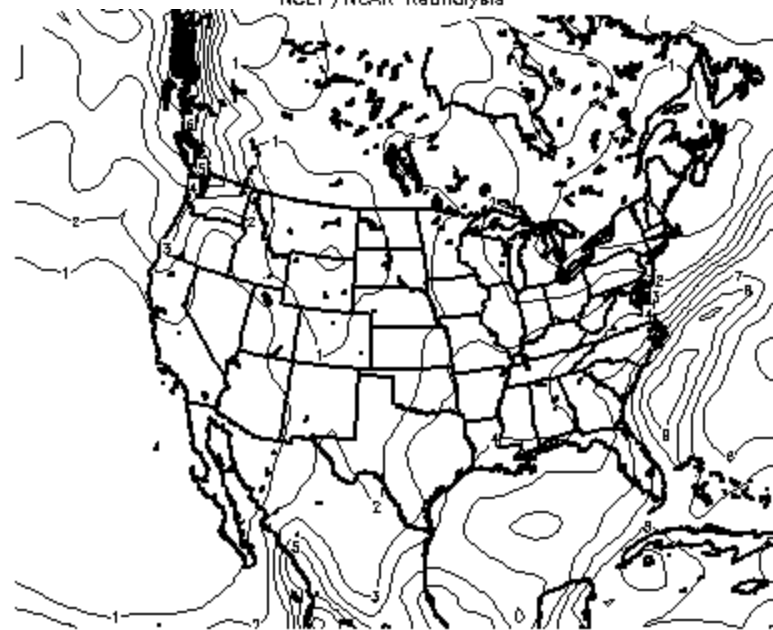
Sea Level Pressure (mb) Composite Mean
Synoptic Type 4010
NCEP/NCAR Reanalysis



500mb Geopotential Height (m) Composite Mean
Synoptic Type 4010
NCEP/NCAR Reanalysis

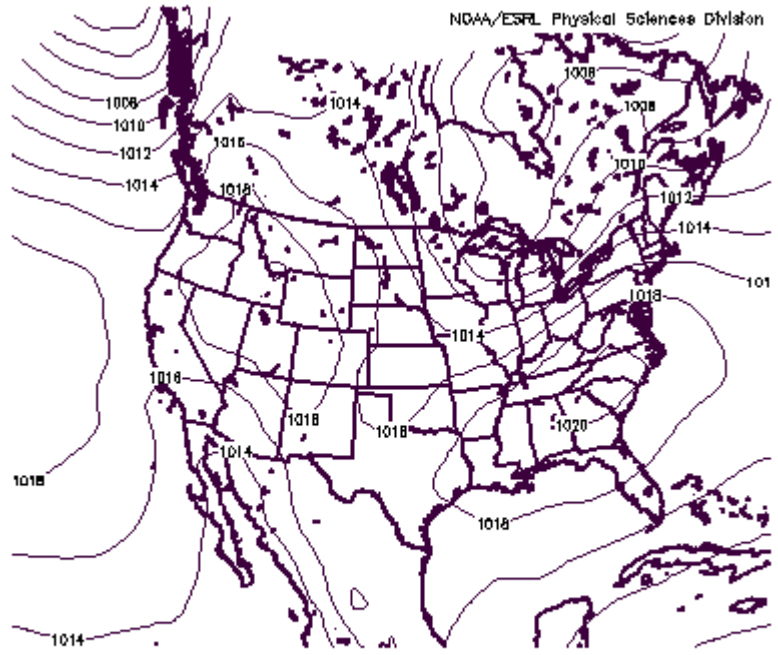


Surface Air Temperature (K) Composite Mean
Synoptic Type 4010



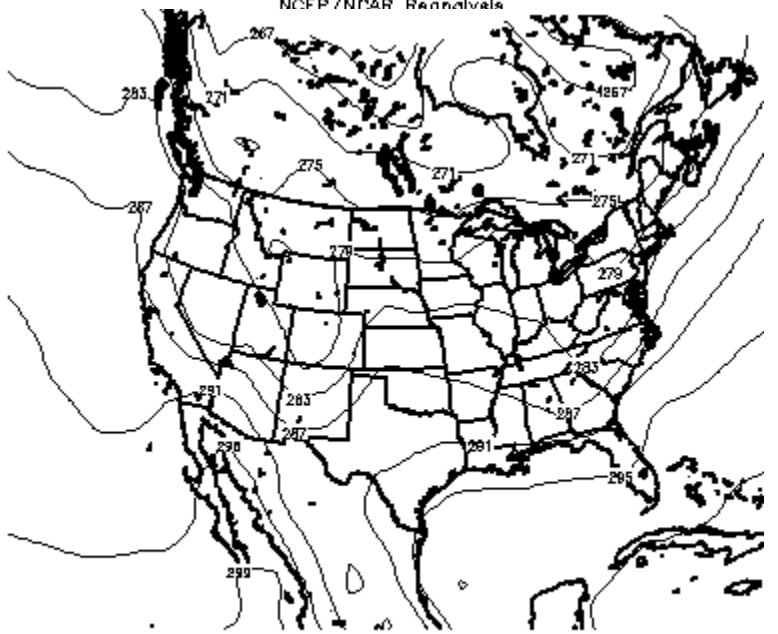
Surface Precipitation Rate (mm/day) Composite Mean
Synoptic Type 4010

4012

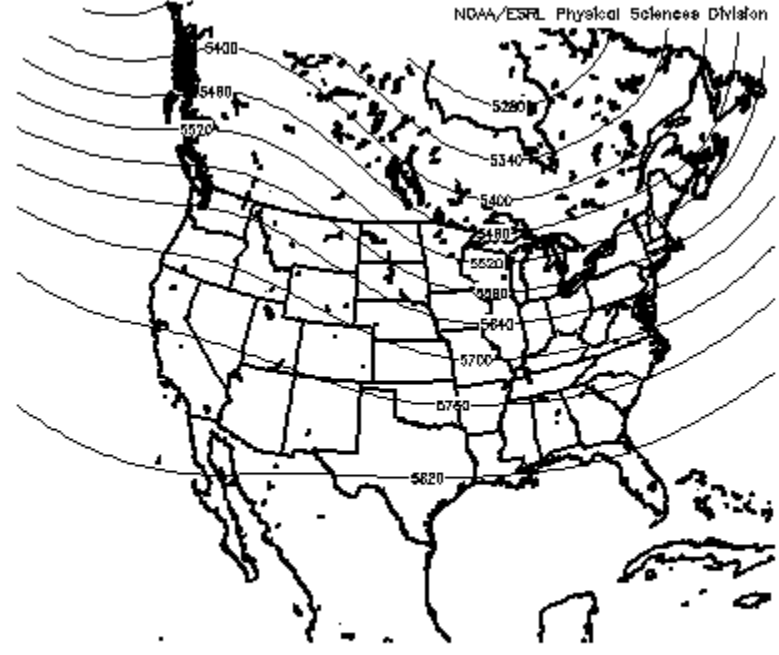


Sea Level Pressure (mb) Composite Mean
Synoptic Type 4012

NOCP/NCAR Reanalysis

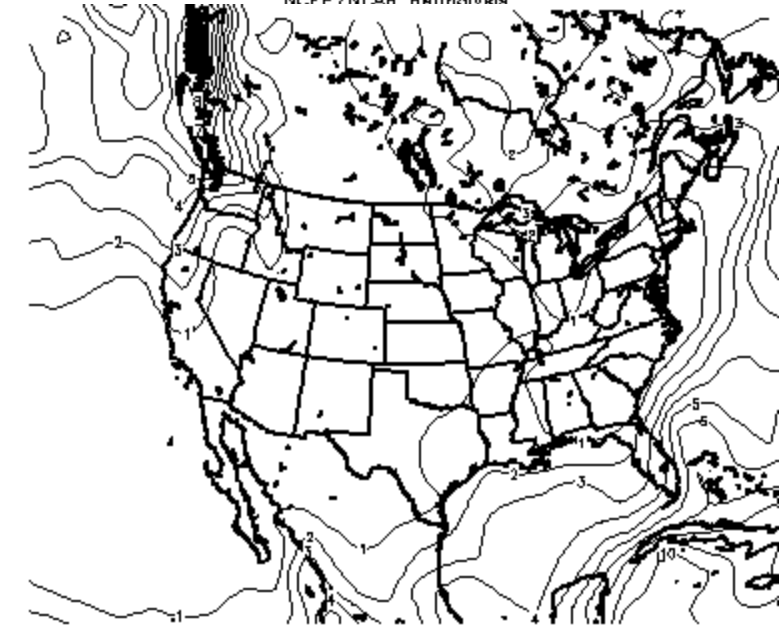


Surface Air Temperature (K) Composite Mean
Synoptic Type 4012



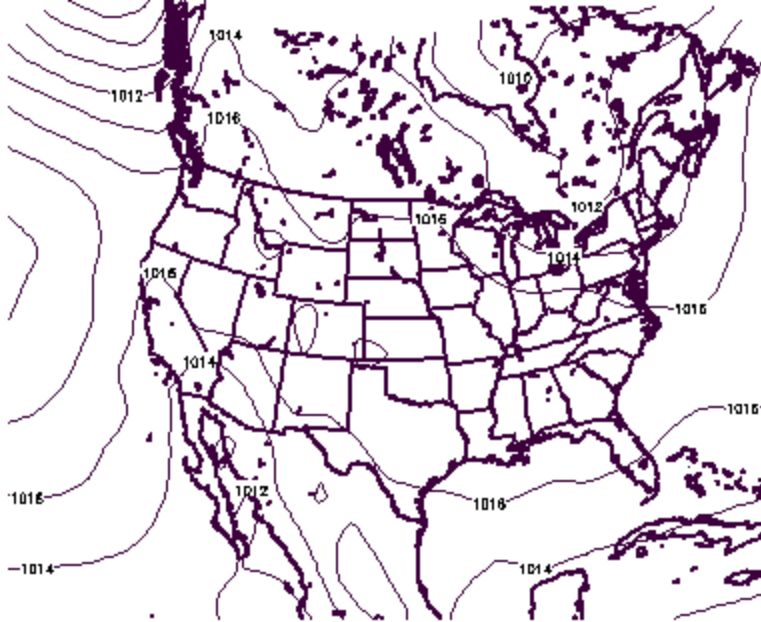
500mb Geopotential Height (m) Composite Mean
Synoptic Type 4012

NOCP/NCAR Reanalysis

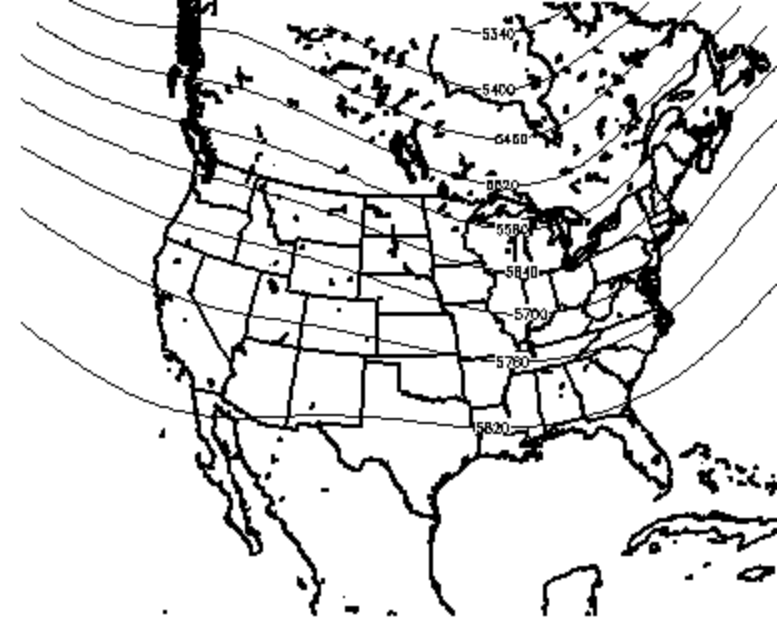


Surface Precipitation Rate (mm/day) Composite Mean
Synoptic Type 4012

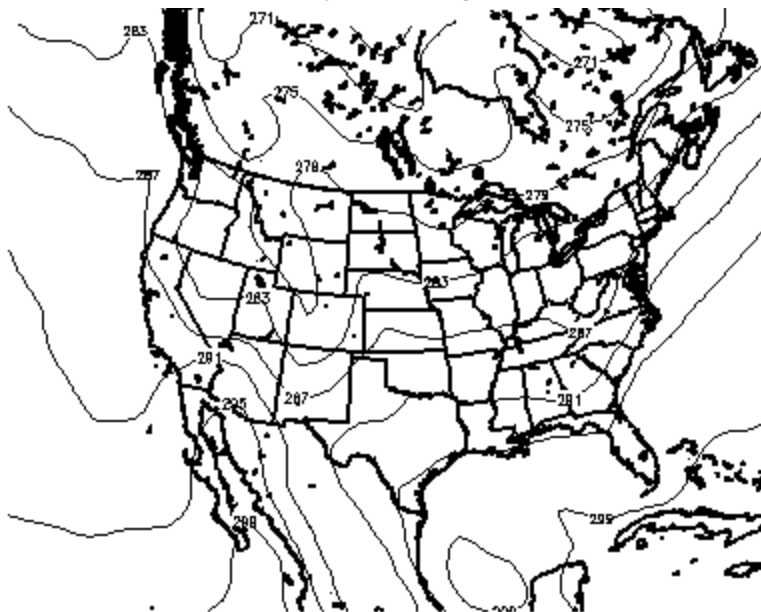
4031



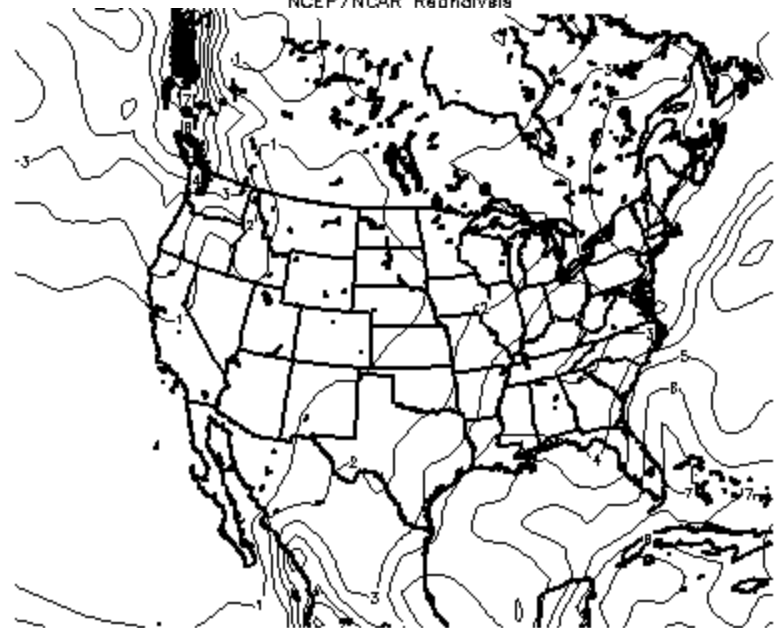
Sea Level Pressure (mb) Composite Mean
Synoptic Type 4031
NCEP/NCAR Reanalyses



500mb Geopotential Height (m) Composite Mean
Synoptic Type 4031
NCEP/NCAR Reanalyses

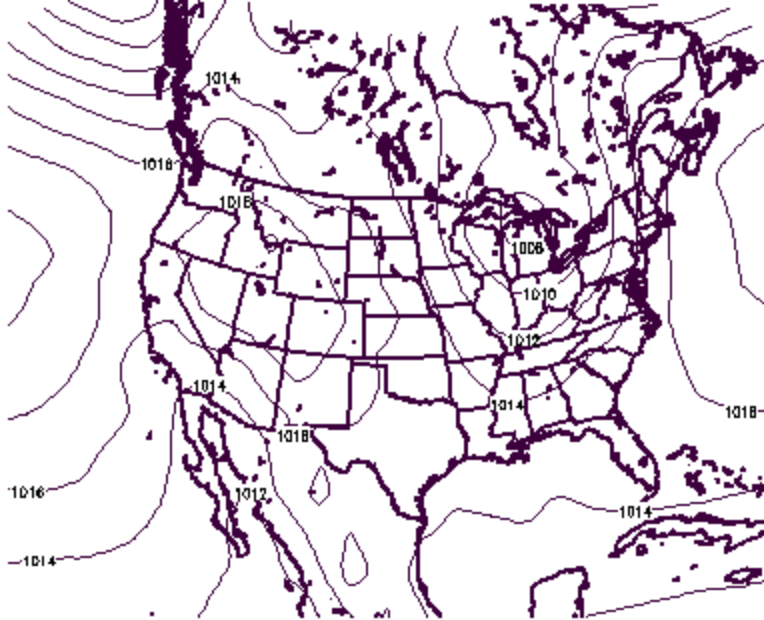


Surface Air Temperature (K) Composite Mean
Synoptic Type 4031
NCEP/NCAR Reanalyses

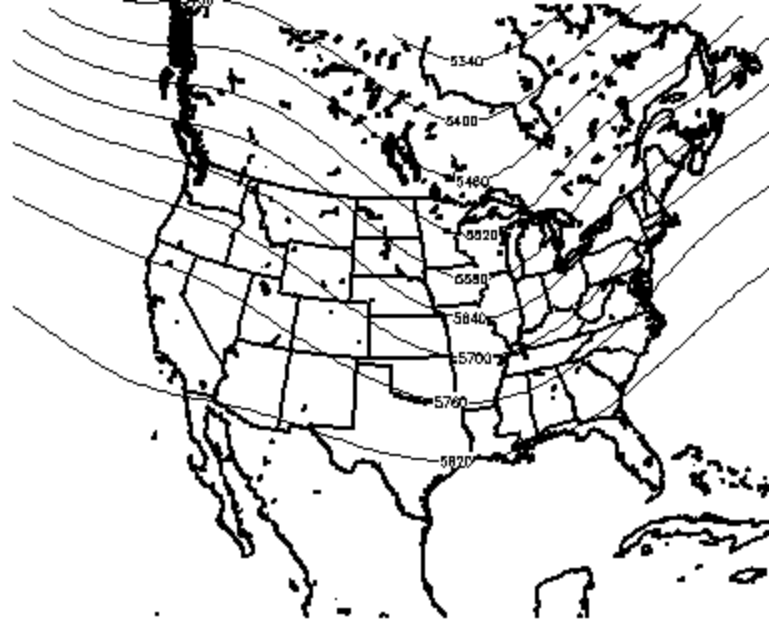


Surface Precipitation Rate (mm/day) Composite Mean
Synoptic Type 4031
NCEP/NCAR Reanalyses

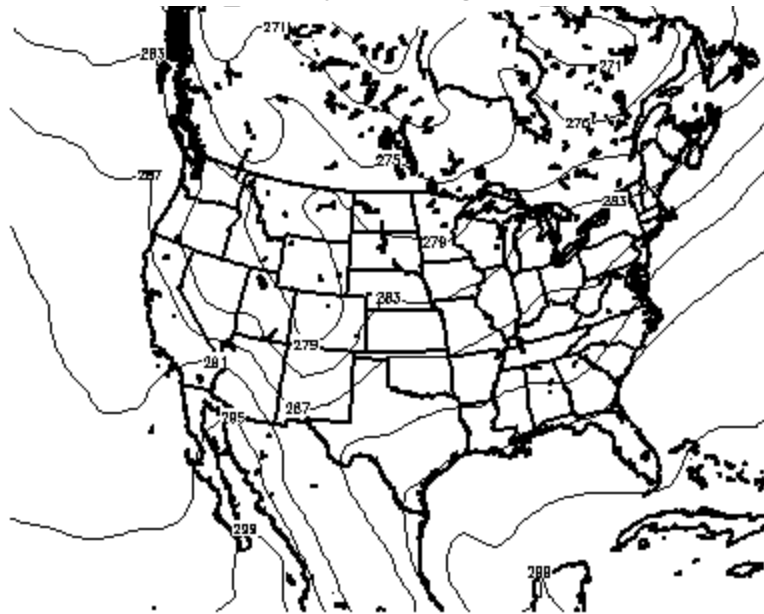
4032



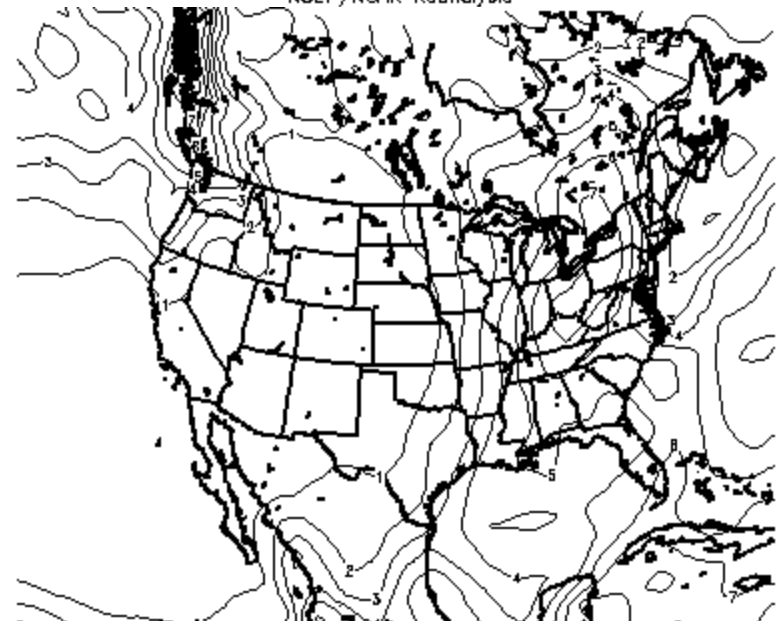
Sea Level Pressure (mb) Composite Mean
Synoptic Type 4032
NCEP/NCAR Reanalysis



500mb Geopotential Height (m) Composite Mean
Synoptic Type 4032
NCEP/NCAR Reanalysis

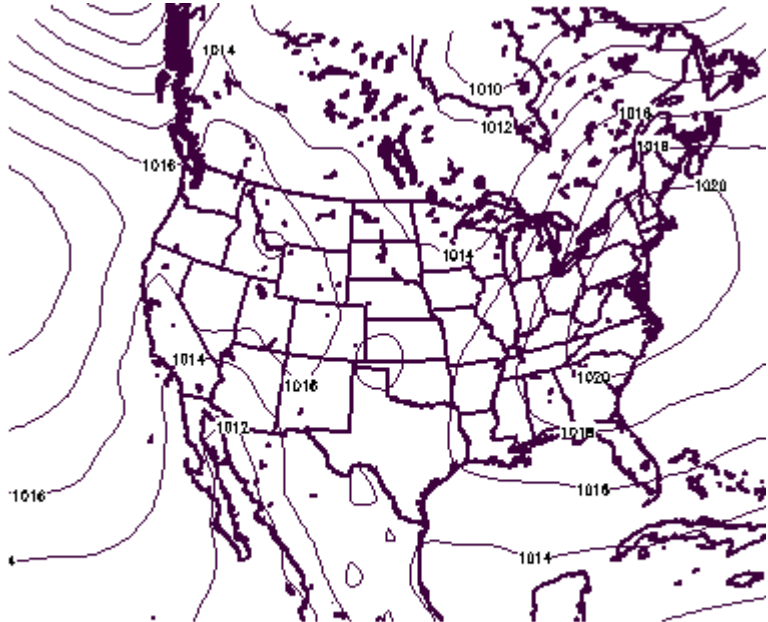


Surface Air Temperature (K) Composite Mean
Synoptic Type 4032
NCEP/NCAR Reanalysis

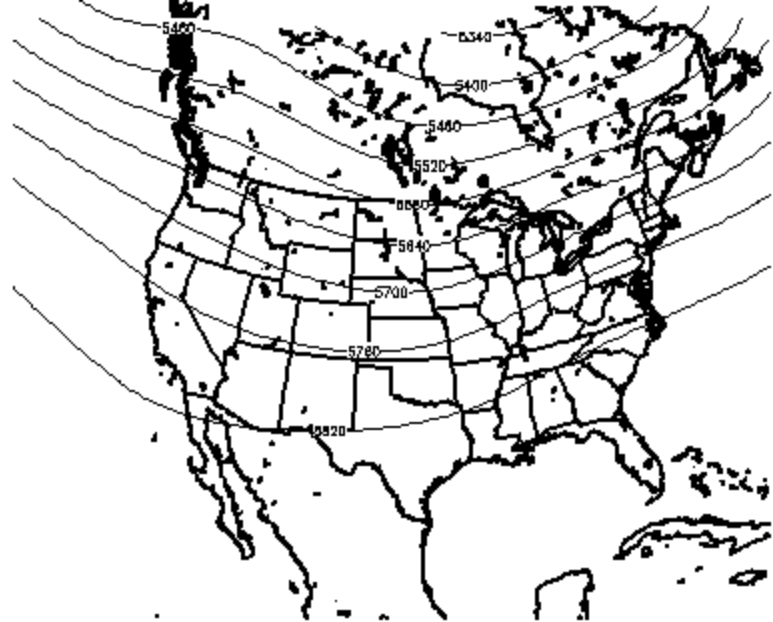


Surface Precipitation Rate (mm/day) Composite Mean
Synoptic Type 4032
NCEP/NCAR Reanalysis

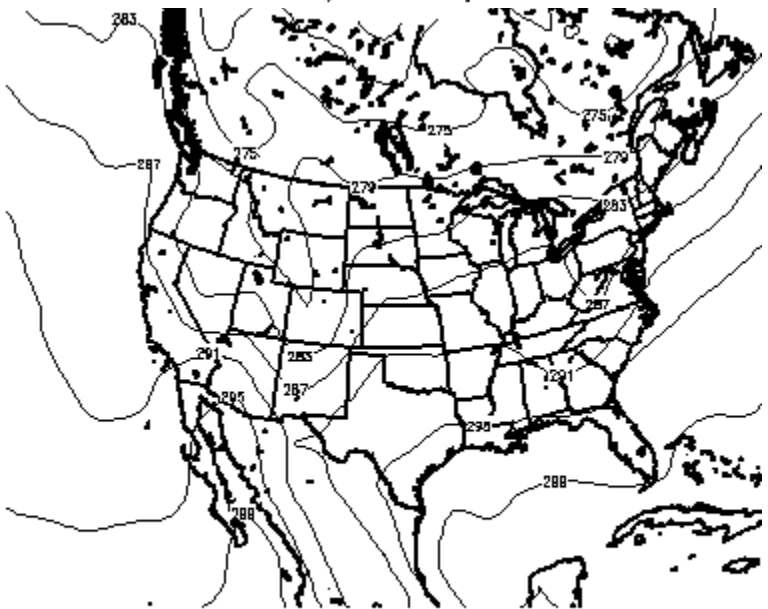
4033



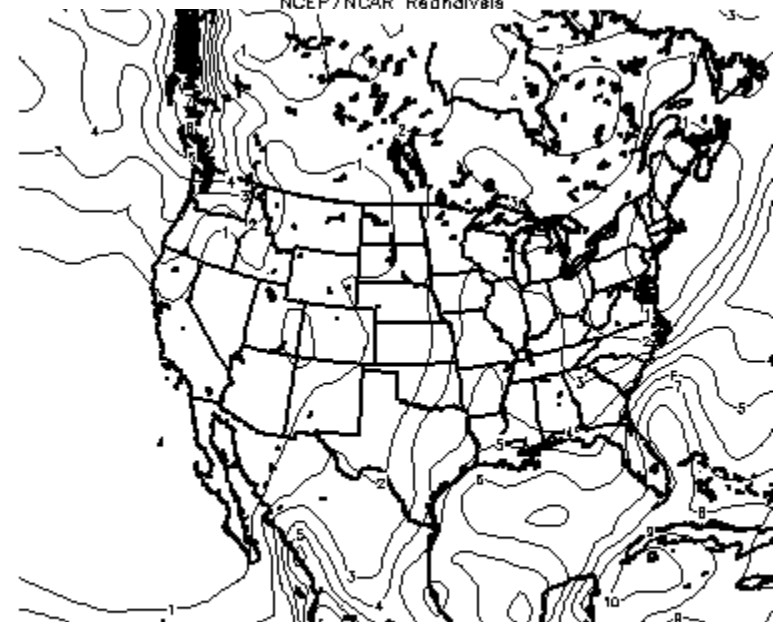
Sea Level Pressure (mb) Composite Mean
Synoptic Type 4033
NCEP/NCAR Reanalyses



500mb Geopotential Height (m) Composite Mean
Synoptic Type 4033
NCEP/NCAR Reanalyses

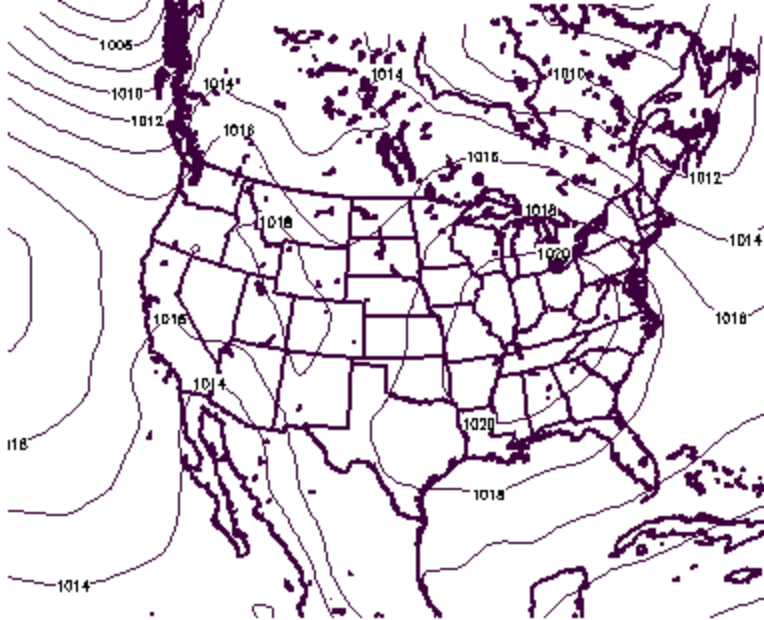


Surface Air Temperature (K) Composite Mean
Synoptic Type 4033
NCEP/NCAR Reanalyses

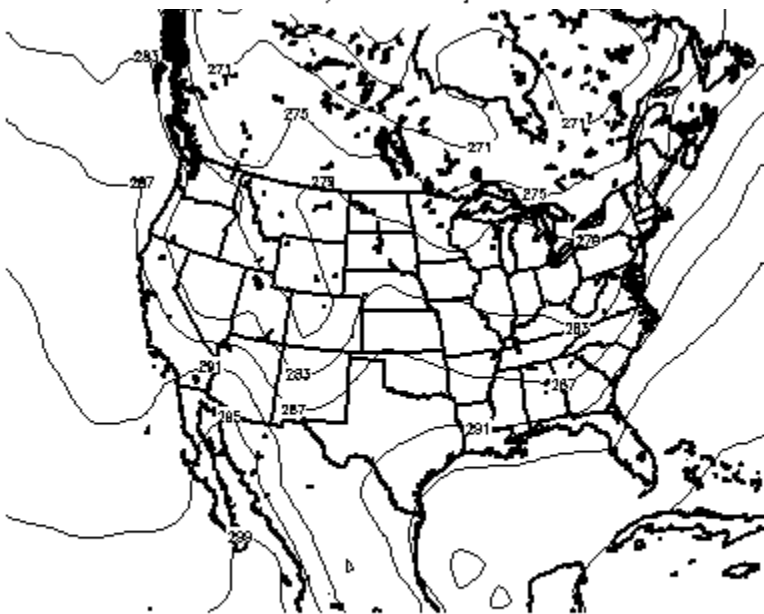


Surface Precipitation Rate (mm/day) Composite Mean
Synoptic Type 4033
NCEP/NCAR Reanalyses

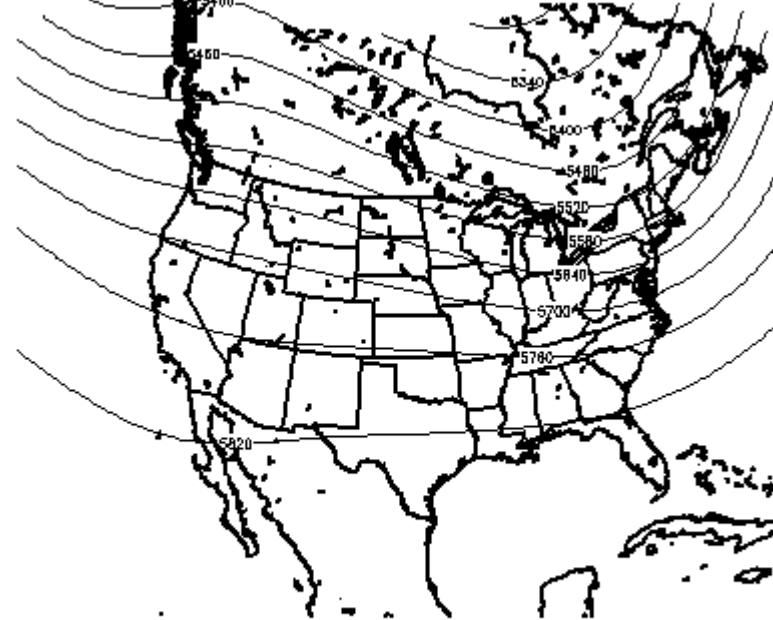
4034



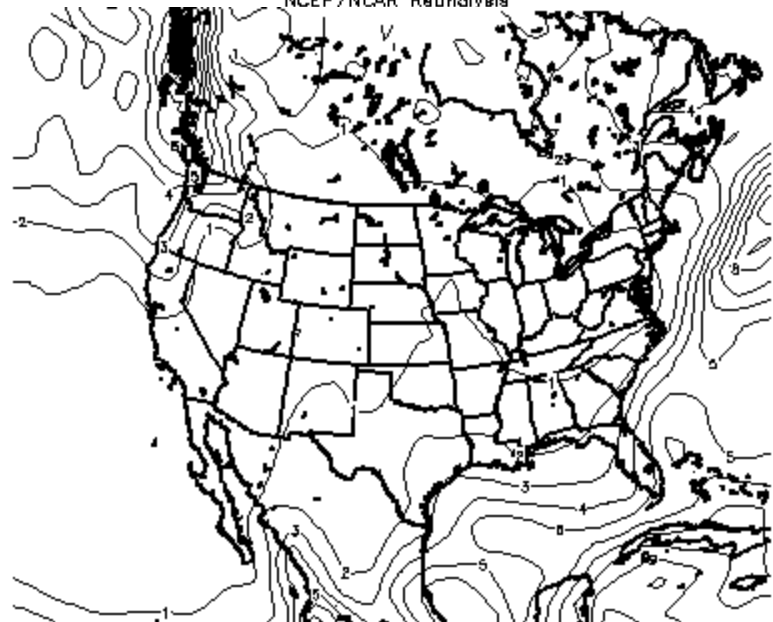
Sea Level Pressure (mb) Composite Mean
Synoptic Type 4034
NCEP/NCAR Reanalysis



Surface Air Temperature (K) Composite Mean
Synoptic Type 4034
NCEP/NCAR Reanalysis

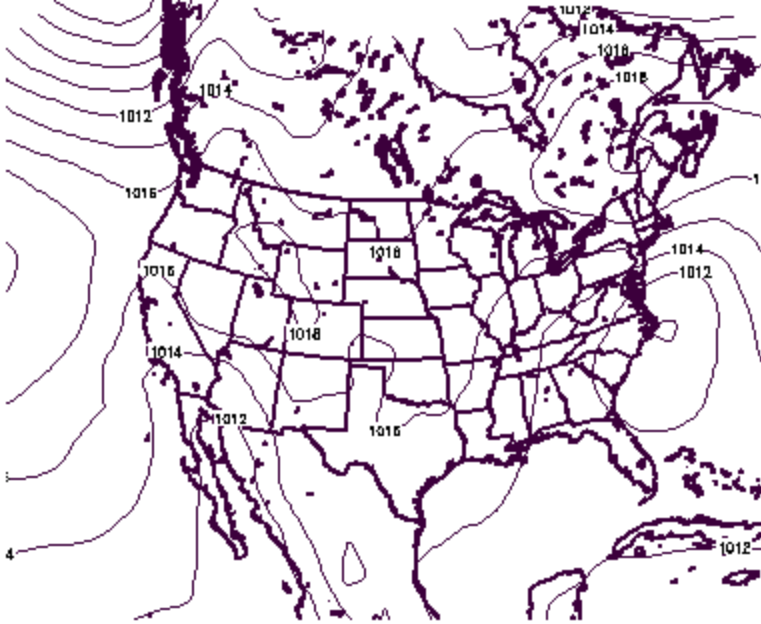


500mb Geopotential Height (m) Composite Mean
Synoptic Type 4034
NCEP/NCAR Reanalysis

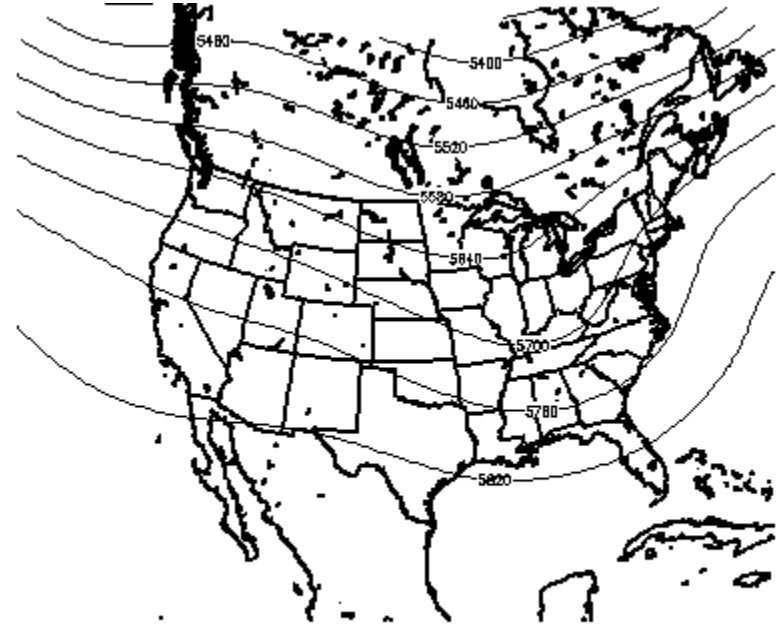


Surface Precipitation Rate (mm/day) Composite Mean
Synoptic Type 4034
NCEP/NCAR Reanalysis

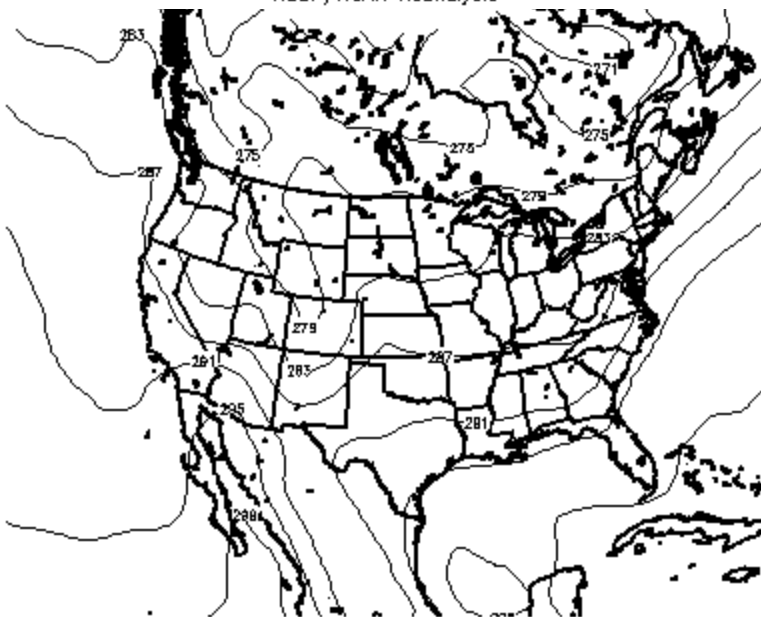
4035



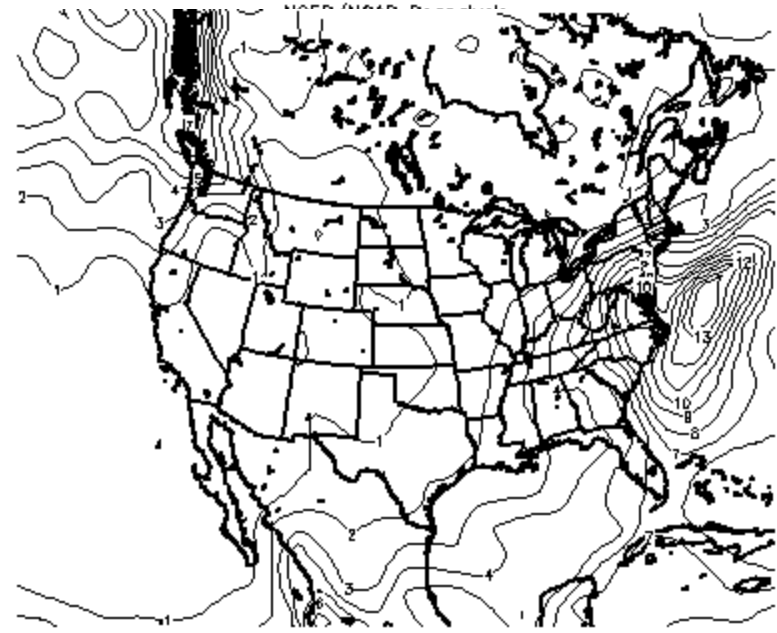
Sea Level Pressure (mb) Composite Mean
Synoptic Type 4035
NCEP/NCAR Reanalyses



500mb Geopotential Height (m) Composite Mean
Synoptic Type 4035
NCEP/NCAR Reanalyses



Surface Air Temperature (K) Composite Mean
Synoptic Type 4035
NCEP/NCAR Reanalyses



Surface Precipitation Rate (mm/day) Composite Mean
Synoptic Type 4035
NCEP/NCAR Reanalyses