

HOW TO READ RADAR SUMMARY CHARTS

ABBREVIATIONS:

NE : No Echoes
NA : Not Available
ROBEPS : Radar Operating Below Performance Specifications
BWER : Bounded Weak Echo Region (area of a strong updraft associated with a severe storm)
OM : Out for Maintenance
LEWP : Line Echo Wave Pattern
RHINO: Range Height Indicator Not Operating
SLD : solid line of strong/severe storms
HOOK : hook echo (severe thunderstorm, tornado soon)
VAULT: updraft of the severe thunderstorm
MALF : precip. mostly aloft
PALF : precip. partly aloft
MLTLVL: melting aloft
R : moderate rain (R- : light rain, R+ : heavy rain)
S : moderate snow (S- : light snow, S+ : heavy snow)
ZR- : light freezing rain
IP- : light ice pellets
TRW : moderate thundershower
SW : moderate snow shower
HAIL : hail
FNLN : fine line of nonprecipitating echoes

ex: SR-IP- T+RW+A

TIMES:

To convert from Z time (GMT,UTC) to local time

STANDARD

EST = Z - 5 HRS	1635 - 5 = 1135 LOCAL
CST = Z - 6 HRS	1635 - 6 = 1035
MST = Z - 7 HRS	1635 - 7 = 0935
PST = Z - 8 HRS	1635 - 8 = 0835

DAYLIGHT

EDT = Z - 4 HRS	1635 - 4 = 1235 LOCAL
CDT = Z - 5 HRS	1635 - 5 = 1135
MDT = Z - 6 HRS	1635 - 6 = 1035
PDT = Z - 7 HRS	1635 - 7 = 0935

-----> : arrow shows direction precip. is moving
speed is shown at the point of the arrow
(ie. -----> 20)

sometimes showers and storms are
embedded in larger area of rain shower
movement and speed are depicted by the
arrow and number as described above.

└-----> : short barb is 5 knots

└-----> : long barb is 10 knots

▲ : 50 knots

example:

└───┬─── : 25 knots

Height of cloud top:

└───┬─── 020 : with the three digit number,
add two (2) zeroes to find
the height in feet (example:
020 = 2000 feet top)

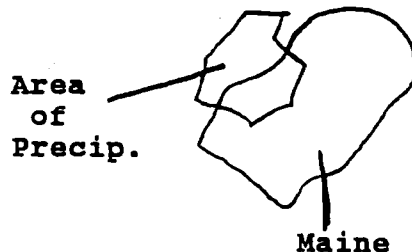
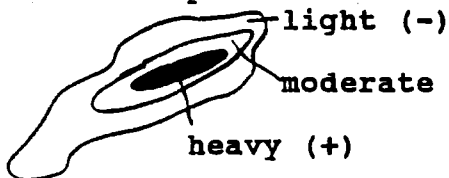
As a rule: higher the top, the heavier the precip.

Height of cloud base:

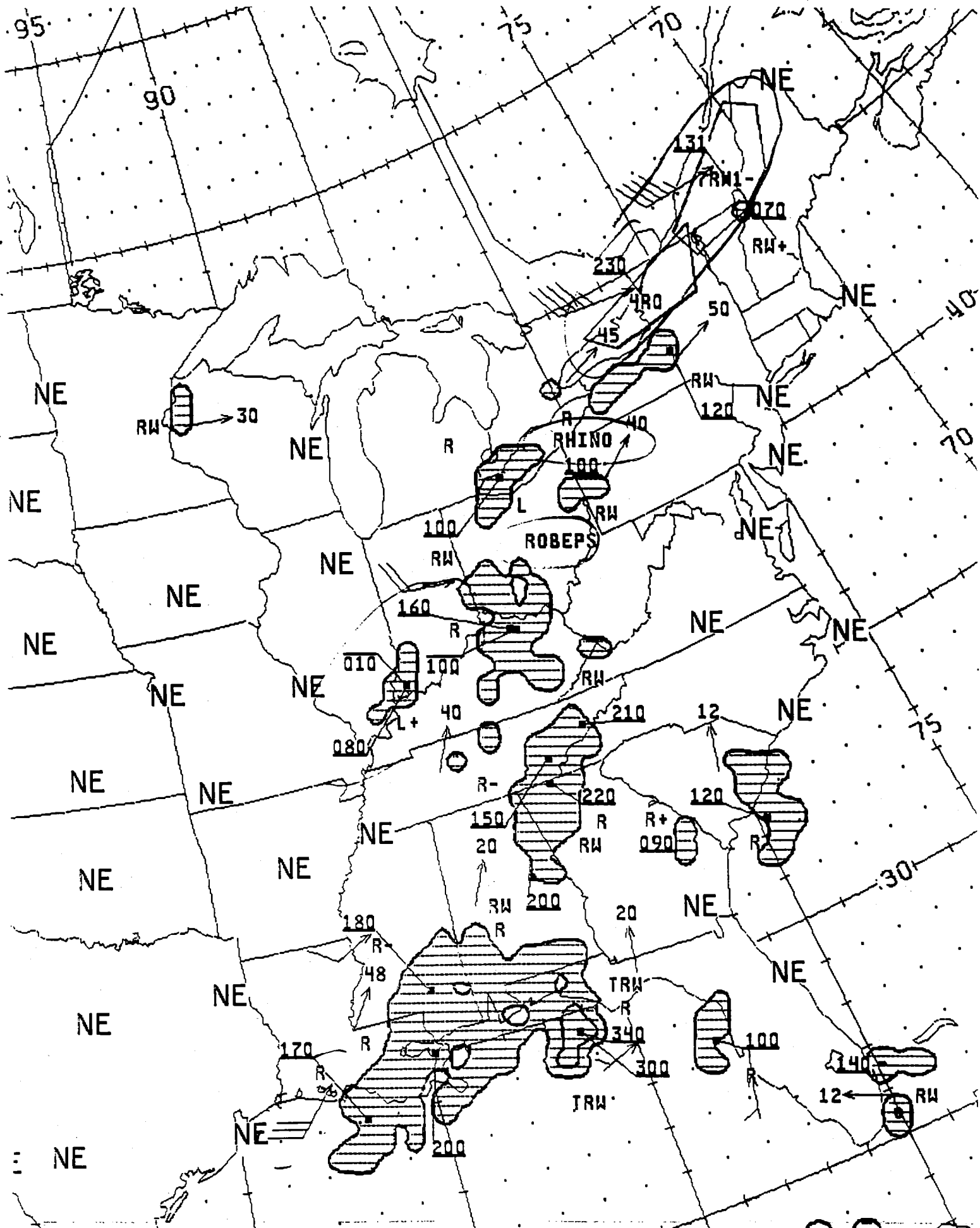
└───┬─── 020 : with the three digit number
add two (2) zeroes to find
height in feet (example:
020 = 2000 feet base)

Areas of precip. occurring in both the U.S. and Canada
will sometimes be shown as geometric shapes

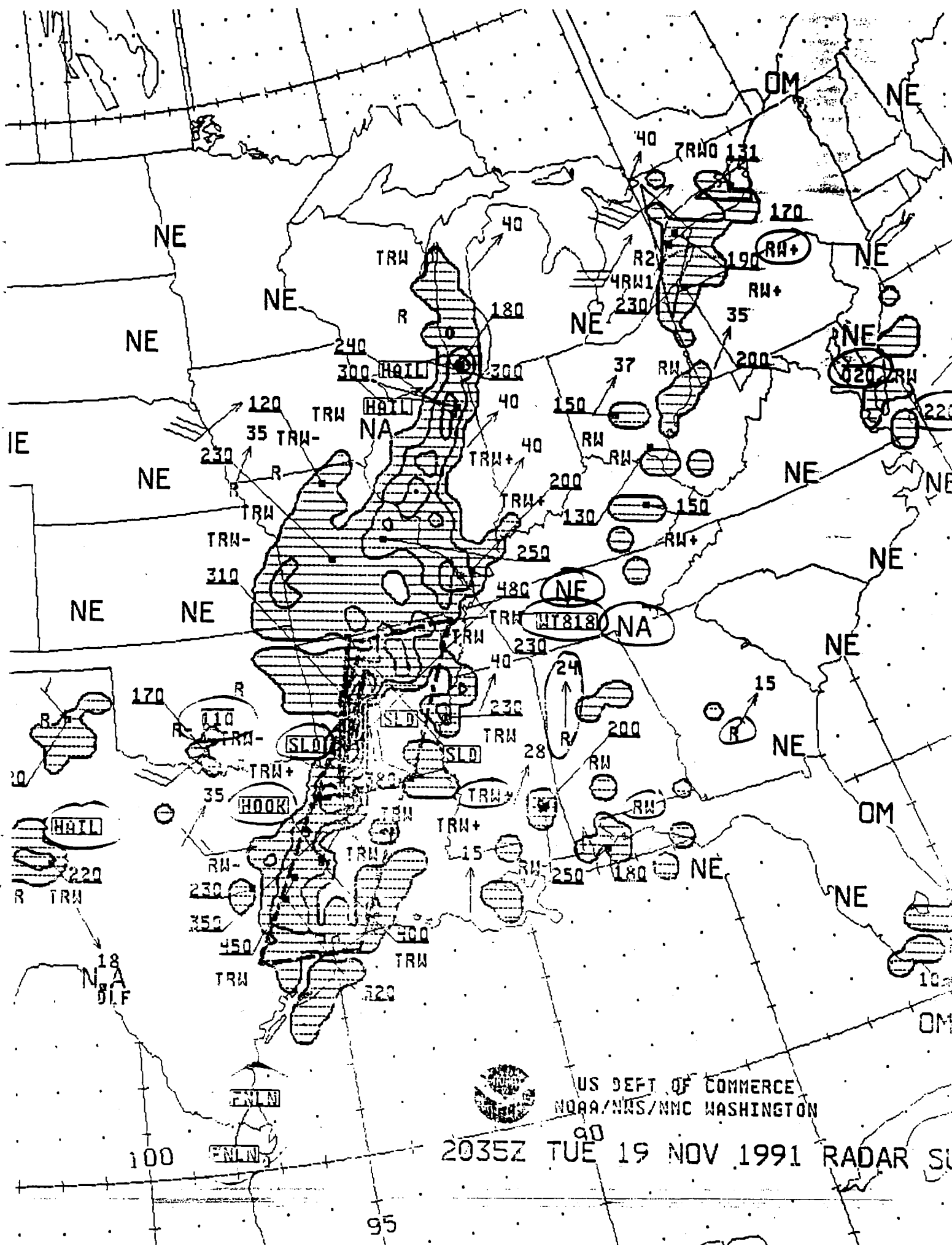
Levels of Precip.



Severe weather watch box are drawn on the radar sheet
with their issue number (numbered consequently)



US DEPT. OF COMMERCE
NOAA/NWS/NMC WASHINGTON



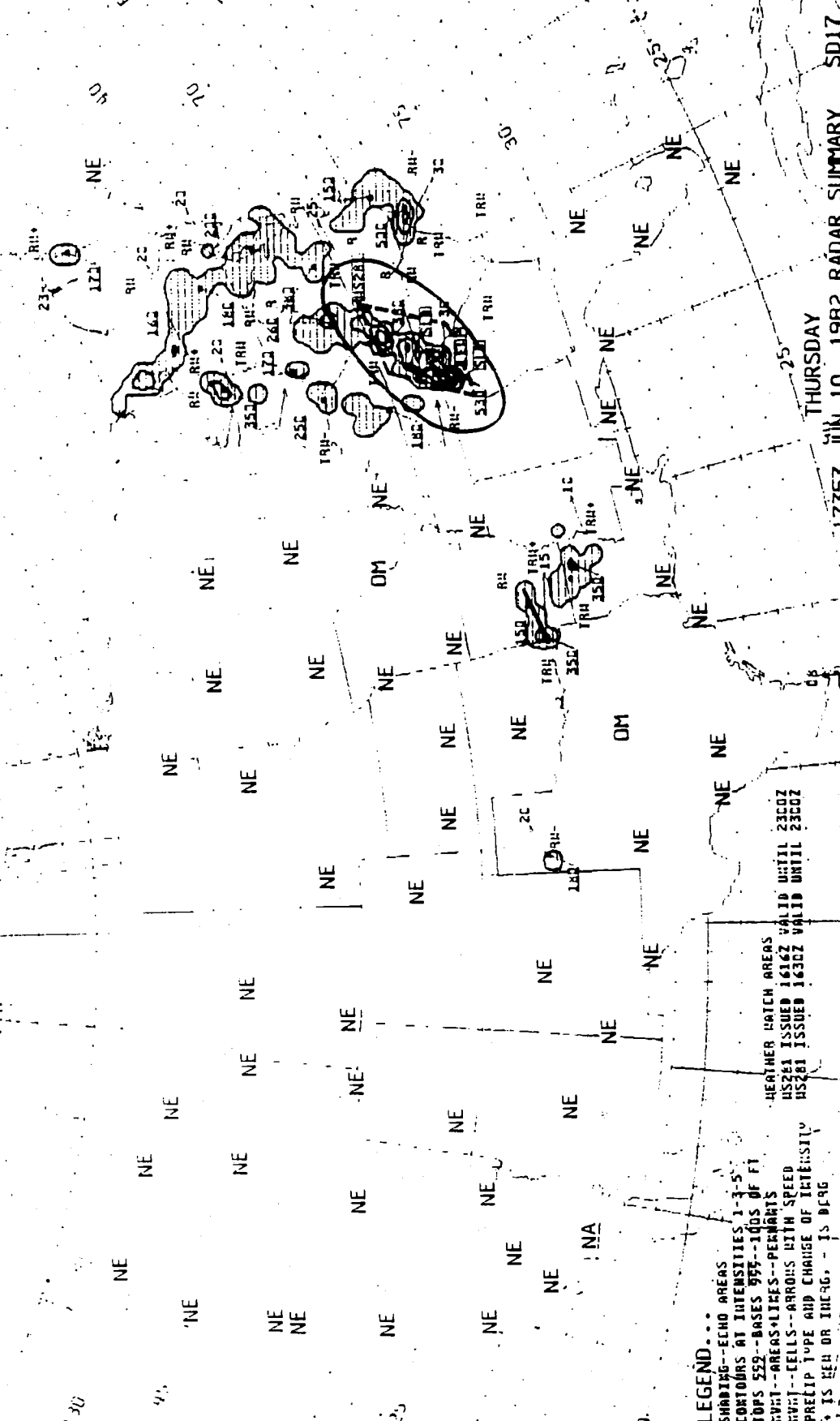
US DEPT OF COMMERCE
 NOAA/NWS/NMC WASHINGTON

2035Z TUE 19 NOV 1991 RADAR SU

100

95

1735Z JUN 10 1982 RADAR SUMMARY SD17
 FILE 1735Z START 1804Z
 LOCAL WINDING BARBAR--NONE



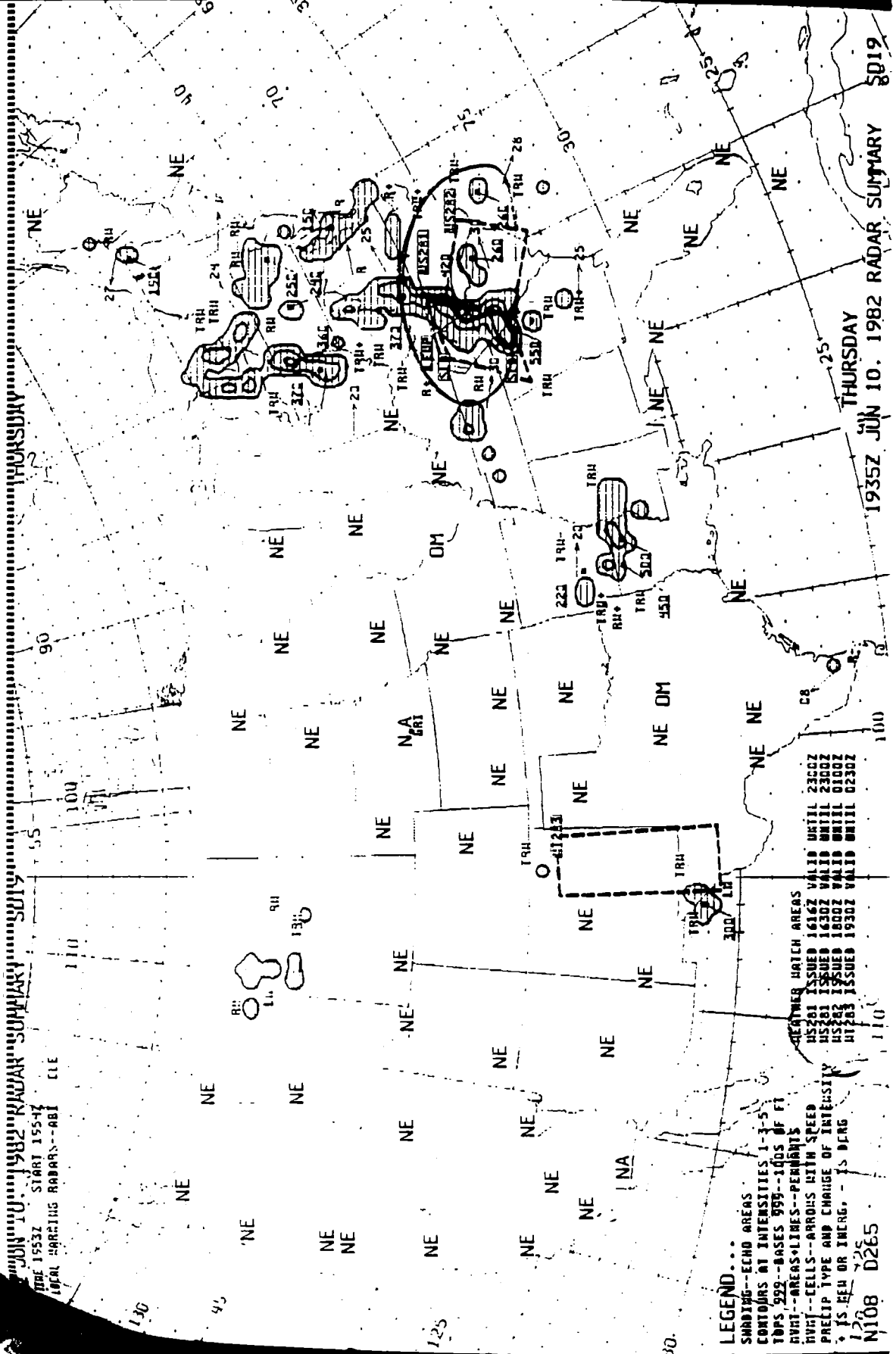
LEGEND...
 SHADING--ECHO AREAS
 CONTOURS AT INTENSITIES 1-3-5
 TOPS 55Z--BASES 99Z--100S OF FT
 RWI--AREAS/LINES--PERMITS
 RWI--CELLS--ARROWS WITH SPEED
 PRECIP TYPE AND CHANGE OF INTENSITY
 * IS REF OR INCRG. - IS DRG

WEATHER WATCH AREAS
 H5281 ISSUED 1616Z VALID UNTIL 2300Z
 H5281 ISSUED 1636Z VALID UNTIL 2300Z

THURSDAY
 1735Z JUN 10. 1982 RADAR SUMMARY SD17

JUN 10, 1982 RADAR SUMMARY SD19

TIME 1553Z START 1553-4 LOCAL HAZING RADAR--081 ELE



LEGEND...

- SHADING--ECHO AREAS
- CONTOURS AT INTENSITIES 1-3-5
- TOPS 999--BASES 999--1005 OF FT
- RVMT--AREAS--LINES--PERMANENT
- RVMT--CELLS--ARROWS WITH SPEED
- PHETIP TYPE AND CHANGE OF INTENSITY
- * IS REF OR INCRG. - IS DEGR

WEATHER WATCH AREAS

- HS281 ISSUED 1616Z VALID UNTIL 2300Z
- HS282 ISSUED 1630Z VALID UNTIL 2300Z
- HS283 ISSUED 1800Z VALID UNTIL 0100Z
- HS283 ISSUED 1930Z VALID UNTIL 0230Z

THURSDAY 1935Z JUN 10, 1982 RADAR SUMMARY SD19

N108 D265