

HFUS 3 BOU 011400

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 336A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 1200UT 01 DEC 1980

IA. SOLAR ACTIVITY HAS BEEN LOW FOR THE PAST 24 HOURS.
HOWEVER, REGIONS 2810 (S11E21) AND 2812 (N17W44) HAVE CONTINUED TO GROW AND BOTH NOW CONTAIN MAGNETIC DELTA CONFIGURATIONS. NEW REGIONS 2817 (S19E62) AND 2818 (N25E69) MARKED THEIR EAST LIMB PASSAGES WITH SIGNIFICANT ACTIVITY AND SHOULD BE MONITORED AS THEY ROTATE INTO BETTER VIEW. THE POSSIBLE RETURN OF OLD REGION 2779 (S14, L EQUALS 95) IS EXPECTED TOMORROW.

IB. SOLAR ACTIVITY IS EXPECTED TO INCREASE TO MODERATE LEVELS TOWARD THE END OF THE FORECAST PERIOD. ISOLATED M CLASS FLARES ARE NOW LIKELY IN REGIONS 2810 AND 2812, AND CONTINUING DEVELOPMENT MAY RESULT IN ISOLATED X CLASS EVENTS.

II. GEOMAGNETIC ACTIVITY HAS BEEN UNSETTLED TO SLIGHTLY ACTIVE FOR THE PAST 24 HOURS. THE SOURCE OF THIS ACTIVITY IS PRESUMED TO BE AN EQUATORIAL POSITIVE CORONAL HOLE WHICH WAS AT CENTRAL MERIDIAN ON 26 NOV. IN ADDITION THE INTERPLANETARY MAGNETIC FIELD AT ISEE INDICATES AWAY SECTOR TOPOLOGY. GEOMAGNETIC ACTIVITY IS EXPECTED TO REMAIN UNSETTLED BUT NOW IN RESPONSE TO A 90 DEGREE WIDE NEGATIVE POLARITY SOUTHERN (S25 DEGREES) CORONAL HOLE WHICH FIRST CROSSED CENTRAL MERIDIAN ON 29 NOVEMBER.

III. EVENT PROBABILITIES: 02 - 04 DEC

CLASS M 4 0/5 0/5 0

CLASS X 01/05/05

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 30 NOV 223

ESTIMATED 01 DEC 230

PREDICTED 02-04 DEC 234/238/242

9 0 DAY MEAN 30 NOV 204

V. GEOMAGNETIC A INDICES

OBSERVED AFR 29 NOV 12 AP 30 NOV 17

ESTIMATED AFR 30 NOV 10 AFR/AP 01 DEC 13/15

PREDICTED AFR/AP 02-04 DEC 15/15 15/15 15/15

SOLTERWARM

BT

HFUS 1 BOU 012200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SOF NUMBER 3368

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200UT 01 DEC 1980

IA. SOLAR ACTIVITY HAS BEEN LOW FOR THE PAST 24 HOURS.
HOWEVER, REGIONS 2810 (S11E21) AND 2812 (N17W44) HAVE CONTINUED
TO GROW AND BOTH NOW CONTAIN MAGNETIC DELTA CONFIGURATIONS.
NEW REGIONS 2817 (S19E62) AND 2818 (N25E69) MARKED THEIR EAST
LIMB PASSAGES WITH SIGNIFICANT ACTIVITY AND SHOULD BE MONITORED
AS THEY ROTATE INTO BETTER VIEW. THE POSSIBLE RETURN OF OLD
REGION 2779 (S14, L EQUALS 95) IS EXPECTED TOMORROW.

ADDITIONS TO 1200Z - - -

SOLAR ACTIVITY CONTINUES TO BE LOW WITH ONLY 2 X-RAY EVENTS
OBSERVED. REGION 2810 (S11E14) PRODUCED A C3/SN AT 1812Z AND
A C4/SB AT 1933Z. THE LATER EVENT WAS ASSOCIATED WITH MINOR
RADIO BURSTS AT DISCRETE FREQUENCIES. NEW REGION 2819 (S06E62)
HAS GROWN TO A C-TYPE GROUP DURING THE PAST FEW HOURS. ALL
OTHER DISK AND LIMBS APPEAR QUIET AND STABLE.

IB. SOLAR ACTIVITY IS EXPECTED TO INCREASE TO MODERATE LEVELS
TOWARD THE END OF THE FORECAST PERIOD. ISOLATED M CLASS FLARES
ARE NOW LIKELY IN REGIONS 2810 AND 2812, AND CONTINUING DEVELOP-
MENT MAY RESULT IN ISOLATED X CLASS EVENTS.

II. GEOMAGNETIC ACTIVITY HAS BEEN UNSETTLED TO SLIGHTLY ACTIVE
FOR THE PAST 24 HOURS. THE SOURCE OF THIS ACTIVITY WAS FROM A
POSITIVE POLARITY CORONAL HOLE THAT CROSSED CENTRAL MERIDIAN ON
26 NOV. THE INTERPLANETARY MAGNETIC FIELD AS OBSERVED BY THE
ISEE VEHICLE INDICATES "AWAY" SECTOR TOPOLOGY. GEOMAGNETIC
ACTIVITY IS EXPECTED TO REMAIN UNSETTLED AS A RESULT OF THE
LOCATION OF THE LARGE CORONAL HOLE IN THE SOUTH. THIS CORONAL
HOLE IS 90 DEGREES IN EXTENT AND DISPLAYS NEGATIVE POLARITY.
CENTRAL MERIDIAN PASSAGE OF THIS FEATURE OCCURRED AT S25 ON 29
NOV. *the west edge of*

III. EVENT PROBABILITIES: 02 - 04 DEC

CLASS M 40/50/50

CLASS X 01/05/05

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 01 DEC 229

PREDICTED 02-04 DEC 234/238/242

90 DAY MEAN 01 DEC 204

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 30 NOV 16/17

ESTIMATED AFR/AP 01 DEC 18/15

PREDICTED AFR/AP 02-04 DEC 14/15 14/15 14/15

SOLTERWARN

BT