

HFUS 3 BOU 311330

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 305A

JOINT USAF/N0AA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 1200 UT 31 OCTOBER 1980

IA. SOLAR ACTIVITY HAS CONTINUED AT LOW LEVELS DURING THE PAST 24 HOURS. SIX REGION HAVE PRODUCED X-RAY/OPTICAL EVENTS THE PAST 24 HOURS. THE LARGEST X-RAY EVENT REPORTED WAS A C7/NO OPTICAL AT 2059 UT. THE LARGEST OPTICAL EVENT WAS A C3/IN FROM REGION 2772 (N22E50) AT 0724 UT. REGION 2776 (N12E74) IS NOW A DKI GROUP AND WITH THE SURGING BEING REPORTED FROM THE EAST LIMB, EITHER AN OTHER REGION OR MORE OF REGION 2776, IS STILL TO BE SEEN. REGION 2772 (N22E50) HAS EXHIBITED RAPID GROWTH AND NOW IS A DAI GROUP. REGION 2773 (N03E59) IS NOW A DKO GROUP AND MAY BE OF REVERSED POLARITY WITH A DELTA IN THE NORTHERN LEADER SPOTS; LIMB PROXIMITY MAKES MAGNETIC ANALYSIS SOMEWHAT UNRELIABLE. REGIONS 2763 (N15W13), 2768 (N16E03) AND 2774 (S16W39) HAVE AT LEAST QUADRUPLED THEIR SIZE DURING THE LAST 24 HOURS.

IB. SOLAR ACTIVITY IS EXPECTED TO BE MODERATE. WITH THE RAPID GROWTH OF SEVERAL REGIONS AND THE POSSIBILITY OF MORE REGIONS DUE OVER THE EAST LIMB, A CHANCE FOR AN X-CLASS EVENT SHOULD INCREASE DURING THE FORECAST PERIOD. THE REGIONS THAT HAVE THE BEST CHANCE FOR ENERGETIC ACTIVITY ARE 2763, 2768, 2773, 2774 AND 2776.

II. THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED TO ACTIVE DURING THE PAST 24 HOURS. THE FIELD IS EXPECTED TO CONTINUE NEAR ACTIVE LEVELS, DUE TO THE INFLUENCE OF A CORONAL HOLE, UNTIL EARLY ON 02 NOVEMBER.

III. EVENT PROBABILITIES 01-03 NOV

CLASS M 55/60/70

CLASS X 05/10/10

PREDICTED 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 30 OCT 205

ESTIMATED 31 OCT 215

PREDICTED 01-03 NOV 225/235/245

90-DAY MEAN 30 OCT 186

V. GEOMAGNETIC INDICES

OBSERVED AFR 29 OCT 02 AP 30 OCT 10

ESTIMATED AFR 30 OCT 10 AFR/AP 31 OCT 18/20

PREDICTED AFR/AP 01-03 NOV 13/14 - 06/07 - 06/07

SOLAR/WARN

BT

HFUS 1 BOU 3 122 00

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO
SDF NUMBER 305B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200UT 31 OCT 1980

IA. SOLAR ACTIVITY WAS LOW TODAY. TWENTY ONE SUBFLARES WERE
OBSERVED FROM REGIONS 2758 (N18W35), 2761 (S05W31), 2762
(N08W28), 2763 (N13W21), 2772 (N22E40), 2774 (S18W46), AND
2776 (N12E71); AND FOUR CLASS ONE FLARES, THE LARGEST A C3/1B
FROM REGION 2763 AT 1221 UT. THE LARGEST X-RAY EVENT WAS A
C5/SR FROM REGIONS 2774 AT 0202 UT. NO NEW REGIONS WERE
CONFIRMED TODAY.

IB. SOLAR ACTIVITY IS EXPECTED TO BECOME MODERATE FOR THE
NEXT THREE DAYS WITH AN ISOLATED X-CLASS FLARE POSSIBLE BEFORE
THE END OF THE FORECAST PERIOD.

II. THE GEOMAGNETIC FIELD HAS BEEN ACTIVE FOR THE PAST 24 HOURS
AND IS EXPECTED TO BECOME UNSETLED TOMORROW AND QUIET ON 03 NOV.

III. EVENT PROBABILITIES 01-03 NOV

CLASS M 55/60/70

CLASS X 05/10/10

PREDICTED 01/01/05

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 31 OCT 215

PREDICTED 01-03 NOV 225/235/245

90-DAY MEAN 31 OCT 187

V. GEOMAGNETIC INDICES

OBSERVED AFR/AP 30 OCT 10/10

ESTIMATED AFR/AP 31 OCT 21/25

PREDICTED AFR/AP 01-03 NOV 13/16 - 08/12 - 06/10

SOLTERWARN

BT