

HFUS 3 BOU 111400

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SFC NUMBER 346A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1200UT 11 DEC 1980

IA. SOLAR ACTIVITY HAS BEEN LOW THE PAST 24 HOURS. THE LARGEST X-RAY FLARE WAS A C4/SB FROM REGION 2826 (N15E15 AT 1200 UT) AT 11/0809 UT. THIRTEEN SPOTTED REGIONS, ALL OF THEM GENERALLY UNINTERESTING, ARE SCATTERED OVER THE SOLAR DISK. REGION 2826 HAS GROWN SLOWLY BUT STEADILY SINCE ITS APPEARANCE FOUR DAYS AGO.

IB. SOLAR ACTIVITY IS EXPECTED TO REMAIN AT LOW LEVELS. OLD REGION 2794 (N10) IS SCHEDULED TO RETURN DURING THE NEXT 24 HOURS, AND LEARMONTH HAS REPORTED AN ACTIVE SURGE REGION AT N10 ON THE EAST LIMB. IF REGION 2826 SHOULD CONTINUE ITS GROWTH, THE CHANCE OF AN M-CLASS EVENT WOULD INCREASE.

II. THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED AND IS FORECAST TO REMAIN SO.

III. EVENT PROBABILITIES: 12-14 DEC

CLASS M 40/40/40

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 10 DEC 186

ESTIMATED 11 DEC 195

PREDICTED 12-14 DEC 198/201/204

90 DAY MEAN 10 DEC 202

V. GEOMAGNETIC INDICES

OBSERVED AFR 09 DEC 10 AP 10 DEC 07

ESTIMATED AFR 10 DEC 08 AFR/AP 11 DEC 08/10

PREDICTED AFR/AP 12-14 DEC 12/12 10/10 12/12

SOLTERWARN

BT

HFUS 1 BOU 112200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 346B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200UT 11 DECEMBER 1980

IA. SOLAR ACTIVITY HAS BEEN LOW THE PAST 24 HOURS. THE LARGEST X-RAY FLARE WAS A C4/SB FROM REGION 2826 (N15E15 AT 1200 UT) AT 11/0809 UT. THIRTEEN SPOTTED REGIONS, ALL OF THEM GENERALLY UNINTERESTING, ARE SCATTERED OVER THE SOLAR DISK. REGION 2826 HAS GROWN SLOWLY BUT STEADILY SINCE ITS APPEARANCE FOUR DAYS AGO.

ADDITIONS TO 1200Z: SOLAR ACTIVITY HAS BEEN MARKED BY NEAR SIMULTANEOUS FLARES IN TWO OR MORE REGIONS. THE FIRST SERIES OF FLARES CULMINATED WITH A C6 X-RAY MAX AT 11/155Z WITH OPTICAL FLARES IN REGIONS 2829, 2826, AND 2828. THE SECOND SIGNIFICANT EVENT WAS A M1 WITH X-RAY MAX AT 11/192Z. OPTICAL FLARES WERE IN REGIONS 2826 AND 2840 (N07E78). REGION 2840 IS THE RETURN OF OLD ACTIVE REGION 2793.

IB. SOLAR ACTIVITY IS EXPECTED TO BE LOW TO MODERATE WITH INCREASING PROBABILITY OF CLASS M FLARES DUE TO INCREASING GROWTH AND COMPLEXITY OF REGION 2826 AND THE APPEARANCE OF REGION 2840.

II. THE GEOMAGNETIC FIELD HAS BEEN SLIGHTLY ACTIVE FOLLOWING A SMALL SSC AT 11/1008Z. THE FIELD IS EXPECTED TO BE GENERALLY UNSETTLED THROUGH THE FORECAST PERIOD.

III. EVENT PROBABILITIES: 12-14 DEC

CLASS M 50/60/70

CLASS X 01/05/05

PROTON 01/01/05

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 11 DEC 215

PREDICTED 12-14 DEC 220/225/230

90 DAY MEAN 11 DEC 203

V. GEOMAGNETIC INDICES

OBSERVED AFR/AP 10 DEC 10/07

ESTIMATED AFR/AP 11 DEC 10/08

PREDICTED AFR/AP 12-14 DEC 12/12 10/10 12/12

SOLTERWARN

BT