

HFUS 1 BOU 021300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 214A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 02 AUG 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 01/1200Z TO 02/1200Z: SOLAR ACTIVITY WAS MODERATE THIS PERIOD DUE TO A M1, NO OPTICAL HOWEVER THE EAST LIMB IS THE PRIME SUSPECT, AT 02/0959UT WITH MAXIMUM AT 1034UT, ONLY MINOR RADIO WAS REPORTED WITH THIS EVENT. A LARGE "H" TYPE SPOT HAS BEEN REPORTED AT (S18E80) AND HAS BEEN

NUMBERED 3836. REGION 3829 (S12E16) HAS SHOWN SOME MINOR GROWTH THIS PERIOD.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE MODERATE DURING THIS FORECAST PERIOD AS CONFIRMED ACTIVE REGIONS ROTATE OVER THE EAST LIMB. A CHANCE FOR AN ISOLATED X-CLASS EVENT IS POSSIBLE AT ANY TIME DURING THE FORECAST PERIOD.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN ACTIVE WITH PERIODS AT MINOR STORM LEVELS THIS PERIOD. THE SOLAR WIND INDICATES THE CURRENT GEOMAGNETIC ACTIVITY IS DUE TO A FILAMENT WHICH DISAPPEARED ON 30 JULY. THE FIELD IS EXPECTED TO CONTINUE AT ACTIVE LEVELS DURING THIS FORECAST PERIOD.

III. EVENT PROBABILITIES 03 AUG-05 AUG

CLASS M 70/75/75

CLASS X 15/20/20

PROTON 05/10/10

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 01 AUG 120

ESTIMATED 02 AUG 133

PREDICTED 03 AUG-05 AUG 145/156/168

90 DAY MEAN 01 AUG 160

V. GEOMAGNETIC A INDICES

OBSERVED AFR 31 JUL 022 AP 01 AUG 015

ESTIMATED AFR 01 AUG 012 AFR/AP 02 AUG 020/015

PREDICTED AFR/AP 03 AUG-05 AUG 020/020-016/020-015/015

SOLTERWARN

BT

HXUS BOU 021300

PREDM 07003 07504 07505

PREDX 01503 02004 02005

PREDP 00503 01004 01005

PCAFT 00103

TENCM 14503 15604 16805

AFRED 02003 01604 01505

AFAPF 02003 02004 01505

KKK 33344 33333 44332

BT

HFUS 3 BOU 022200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLORADO

SDF NUMBER 214P

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 2200Z 02 AUGUST 1982

I. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 02/1200Z TO 02/2100Z: SOLAR ACTIVITY HAS BEEN LOW TO MODERATE THIS PERIOD.

REGION 3832 (S11W30) PRODUCED A C6/2B FLARE AT 021609Z AND REGIONS 3830 (N17E30) AND 3829 (S12F10) HAVE PRODUCED SUBFLARE ACTIVITY. REGION 3829 IS THE MOST COMPLEX VISIBLE REGION AND ITS ONLY A SIMPLE BETA. THE LIMBS HAVE BEEN QUIET DURING RECENT HOURS.

IB. SOLAR ACTIVITY FORECAST: A GRADUALLY RISING X-RAY BACKGROUND AND INCREASED 10 CM FLUX FROM THE EAST LIMB (VIA EAST WEST DAILY SCAN) SUGGEST THAT INCREASED FLARE PRODUCTION CAN BE EXPECTED.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN AT ACTIVE TO MINOR STORM LEVELS. ACTIVE CONDITIONS ARE LIKELY DURING THE COMING 24 TO 36 HOURS WITH UNSETTLED TO ACTIVE CONDITIONS LIKELY BY 05 AUGUST.

III. EVENT PROBABILITIES 03 AUGUST - 05 AUGUST

CLASS M 70/75/75

CLASS X 15/20/20

PROTON 05/10/10

POA/F GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 02 AUGUST 144

PREDICTED 03-05 AUGUST 148/157/170

90-DAY MEAN 02 AUGUST 160

V. GEOMAGNETIC INDICES

OBSERVED AFR/AP 01 AUGUST 11/15

ESTIMATED AFR/AP 02 AUGUST 26/34

PREDICTED AFR/AP 03-05 AUGUST 20/20 - 16/20 - 15/15

SOLTERWARN

BT