

HFUS 1 BOU 241300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 267A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 24 SEP 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 23/1200Z TO 24/1200Z: SOLAR ACTIVITY HAS BEEN LOW. THE FREQUENCY OF OCCURRENCE OF C CLASS SUBFLARES HAS INCREASED IN NUMBER FOR THIS REPORT PERIOD. REGION 3907 (S13W58) HAS BEEN RESTRUCTURING, RELATIVE SPOT ORIENTATIONS APPEAR TO BE CHANGING AND THE MAGNETIC GRADIENT IN THE REGION HAS INCREASED.

COMPLEXITY IN REGION 3910(N14W37) HAS INCREASED. SURGING IS REPORTED ON THE EAST LIMB FROM NE15 TO SE20. AN UNCONFIRMED REPORT OF SPOTS AND A C4/SF FLARE AT 24/0702Z HAVE BEEN REPORTED FOR A REGION AT NE15.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO INCREASE. AN OCCASIONAL M FLARE MAY BECOME POSSIBLE IN REGION 3907 OR FROM REGIONS AT OR SOON EXPECTED OVER THE EAST LIMB.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN ACTIVE. UNSETTLED TO NEAR ACTIVE CONDITIONS SHOULD PREVAIL SHOWING A DECREASING TREND EARLY IN THE FORECAST PERIOD. A RECURRENT ACTIVE PERIOD SHOULD APPEAR AGAIN AT THE END OF THE PERIOD.

III. EVENT PROBABILITIES 25 SEP-27 SEP

CLASS M 20/25/25

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 23 SEP 152

ESTIMATED 24 SEP 160

PREDICTED 25 SEP-27 SEP 168/176/182

90 DAY MEAN 23 SEP 161

V. GEOMAGNETIC A INDICES

OBSERVED AFR 22 SEP 084 AP 23 SEP 026

ESTIMATED AFR 23 SEP 021 AFR/AP 24 SEP 015/015

PREDICTED AFR/AP 25 SEP-27 SEP 012/020-012/020-015/015

SOLTERWARN

BT

BT

HFUS 3 BOU 242200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO.

SDF NUMBER 267B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 24 SEP 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 24/1200Z TO 24/2100Z: SOLAR ACTIVITY SINCE 12Z HAS CONTINUED AT LOW LEVELS. DURING THE PERIOD ONLY WEAK C CLASS XRAY SUBFLARES HAVE BEEN OBSERVED. NUMEROUS NEW SMALL SUNSPOT GROUPS HAVE BEGUN FORMING NEAR THE EAST LIMB OF THE SUN. INCLUDED IN THE LIST OF NEW REGIONS ARE 3920 (S06W21) 3921 (S20E73) 3922 (N15E70) AND 3923 (S02E80).

IB. SOLAR ACTIVITY FORECAST: AT PRESENT THERE ARE NO FEWER THAN 13 SPOTTED REGIONS ON THE SOLAR DISK. HOWEVER ALL OF THE REGIONS ARE CURRENTLY VERY SMALL AND MAGNETICALLY SIMPLE. THEREFORE UNTIL FURTHER GROWTH OCCURS ACTIVITY WILL REMAIN AT LOW LEVELS.

II. GEOPHYSICAL SUMMARY AND FORECAST: DURING THE DAY THE GEOMAGNETIC FIELD WAS ACTIVE. GEOMAGNETIC ACTIVITY IS EXPECTED TO DECLINE OVER THE NEAR TERM WITH GENERALLY UNSETTLED CONDITIONS PREVAILING DURING THE NEXT ONE TO THREE DAYS.

III. EVENT PROBABILITIES 25 SEP-27 SEP

CLASS M 20/25/25

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 24 SEP 166

PREDICTED 25 SEP-27 SEP 173/175/177

90 DAY MEAN 24 SEP 161

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 23 SEP 020/026

ESTIMATED AFR/AP 24 SEP 015/024

PREDICTED AFR/AP 25 SEP-27 SEP 012/020-012/020-015/015

SOLTERWARN

BT