

HFUS 3 BOU 282200

FROM SPACE ENVIRONMENT SERV CES CEN E , BOULDER, COLORADO

SDF NUMBER 209

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 28 JUL 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 27/2100 TO 28/2100Z: SOLAR ACTIVITY WAS AT MODERATE LEVELS THIS PERIOD DUE TO A M1/SN EVENT FROM REGION 4263 (S10E71) AT 27/2328UT, NO RADIO WAS REPORTED WITH THIS EVENT. REGION 4263 ALSO PRODUCED A C5/SN EVENT AT 28/0506UT, MINOR RADIO WAS OBSERVED WITH THIS EVENT. REGION 4263 IS AT LEAST A "E" TYPE GROUP WITH A BETA-GAMMA MAGNETIC CONFIGURATION. SEVERAL REPORTS HAVE BEEN RECEIVED THAT INDICATES THERE MAY BE MORE OF THE REGION TO ROTATE INTO VIEW. FOUR NEW REGIONS WERE NUMBERED TODAY REGIONS 4264 (S13W20), 4265 (S07W03) AND 4266 (S15E25) ARE SIMPLE "A" TYPE GROUPS. REGION 4267 (S21E75) IS REPORTED TO BE A "H" TYPE HOWEVER MINOR SURGE ACTIVITY ON THE LIMB MAY INDICATE MORE TO COME.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE AT OR NEAR MODERATE LEVELS DURING THIS FORECAST PERIOD. MOST OF THE ACTIVITY IS EXPECTED TO BE FROM REGION 4263, OR REGIONS JUST EAST OF THE EAST LIMB. REGION 4263 IS OF LARGE ENOUGH SIZE AND COMPLEXITY TO BE THREAT FOR AN ISOLATED "X" CLASS EVENT IF RAPID CHANGE OCCURS.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 27/2100Z TO 28/2100Z: THE GEOMAGNETIC FIELD HAS BEEN GENERALLY UNSETTLED TO ACTIVE DURING THE PAST 24 HOURS.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE ACTIVE UNTIL LATE ON 29 JULY THEN UNSETTLED FOR THE REST OF THE FORECAST PERIOD.

III. EVENT PROBABILITIES 29 JUL-31 JUL

CLASS M 20/30/30

CLASS X 05/05/05

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 28 JUL 123

PREDICTED 29 JUL-31 JUL 127/131/136

90 DAY MEAN 28 JUL 134

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 27 JUL 013/012

ESTIMATED AFR/AP 28 JUL 014/015

PREDICTED AFR/AP 29 JUL-31 JUL 020/020-010/010-010/010

SOLTERWARN

BT