

HFUS 3 BOU 032200

FROM SPACE ENVIRONMENT SERVICES CENTE , BOULDER, COLORADO

SDF NUMBER 184

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 03 JUL 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 02/2100 TO 03/2100Z: SOLAR ACTIVITY HAS BEEN LOW THIS PERIOD. ONLY XRAY CLASS C FLARES OCCURRED. THE LARGEST WAS A C6 FROM N08 ON THE WEST LIMB WHERE REGION 4222 HAD ROTATED OFF OF THE DISK. MOST OF THE FLARES DURING THIS PERIOD CAME FROM REGION 4235 (S20E50). THIS REGION HAS HAD SIGNIFICANT GROWTH IN WHITE LIGHT AND HAS INCREASED IN MAGNETIC COMPLEXITY. MAGNETICALLY IT IS NOW A BETA-GAMMA-DELTA GROUP. REGION 4227 HAS CONTINUED TO DECREASE IN WHITE LIGHT AREA AND MAGNETIC COMPLEXITY. IT IS NOW A BETA-GAMMA GROUP. ONE NEW REGION, 4236 (S12E70) WAS NUMBERED TODAY. THIS REGION WAS PREVIOUSLY INCLUDED IN REGION 4234 (S10E60). IT WAS SEPARATED WHEN MAGNETIC ANALYSIS INDICATED TWO GROUPS.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW. REGION 4235, HOWEVER, HAS THE POTENTIAL TO PRODUCE ISOLATED M CLASS EVENTS.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 02/2100Z TO 03/2100Z: THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED THIS PERIOD.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE UNSETTLED TO ACTIVE ON THE 4TH AND THEN BECOME ACTIVE FOR THE 5TH AND 6TH. THE EXPECTED INCREASE IN ACTIVITY IS DUE TO A CORONAL HOLE THAT PASSED CENTRAL MERIDIAN YESTERDAY.

III. EVENT PROBABILITIES 04 JUL-06 JUL

CLASS M 35/35/35

CLASS X 05/05/05

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 03 JUL 127

PREDICTED 04 JUL-06 JUL 133/140/150

90 DAY MEAN 03 JUL 133

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 02 JUL 008/011

ESTIMATED AFR/AP 03 JUL 008/010

PREDICTED AFR/AP 04 JUL-06 JUL 010/015-015/020-015/020

SOLTERWARN

BT