

HFUS 1 BOU 012200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 061

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 01 MARCH 1980

IA. SOLAR ACTIVITY HAS BEEN LOW WITH ONLY SUBFLARES OBSERVED DURING THE PAST 24 HOURS. REGION 2309 (S28W65) AND REGION 2300 (N-1E20) HAVE DISPLAYED AFS AND ARE CURRENTLY GROWING. REGION 2303 (N03E19) CONTAINS A STRONG MAGNETIC GRADIENT AND HAS GOOD POTENTIAL TO PRODUCE FLARE ACTIVITY. REGION 2296 (S13E02) HAS PRODUCED ONE SUBFLARE DURING THE DAY AND CURRENTLY DISPLAYS BRIGHTRIBBONS OF PLAGE. REGION 2304 (SW09) HAS BEEN SURGING DURING ITS WEST LIMB TRANSIT. TWO NEW REGIONS HAVE BEEN NUMBERED - REGION 2312 (N13E73) AND REGION 2313 (S08E80). A SOLAR SECTOR BOUNDARY IS LOCATED AT W56 AND HAS THE POTENTIAL TO PRODUCE MAGNETIC ACTIVITY AT EARTH DURING THE NEXT 48 HOURS. ALL OTHER DISK AND LIMB FEATURES ARE REPORTED QUIET AND STABLE.

IB. SOLAR ACTIVITY IS EXPECTED TO BE LOW TO MODERATE WITH A GOOD POSSIBILITY OF M-CLASS ACTIVITY FROM REGIONS 2309, 2300, 2303.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET AND IS EXPECTED TO BE QUIET TO UNSETLED DURING THE NEXT 72 HOURS AS THE SSB CROSSES INTO THE HIGH POTENTIAL ZONE OF THE WESTERN HEMISPHERE.

III. EVENT PROBABILITIES 02 MAR - 04 MAR

CLASS M 5/05/0/50

CLASS X 0/05/05

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 01 MAR 179

PREDICTED 02 MAR - 04 MAR 179/179/181

90-DAY MEAN 01 MAR 205

V. GEOMAGNETIC INDICES

OBSERVED FREDERICKSBURG 29 FEB 06

ESTIMATED AFR/AP 01 MAR 06/06

PREDICTED AFR/AP 02 - 04 MAR 08/07 08/07 08/08

SOLTERWARN

BT