

HFUS 1 BOU 032200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, COLO.

SDF NUMBER 184

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 23 JULY 1979

IA. SOLAR ACTIVITY HAS BEEN LOW. THE MOST IMPRESSIVE REGION PRESENTLY ON THE DISK IS REGION 1840 (N 18E 00). THIS REGION DISPLAYS A COMPLEX BETA-GAMMA-DELTA SPOT CONFIGURATION WITH A VERY STRONG MAGNETIC GRADIENT AND AN ARCH FILAMENT SYSTEM. REGION 1828 (N 15W 50) PRESENTLY CONTAINS BRIGHT POINTS AND DISPLAYS COMPACT PLAGE WITH AN ARCH FILAMENT SYSTEM. REGION 1849 (N 08E 51) DISPLAYS A CIRCULAR NEUTRAL LINE AND AN ACTIVE FILAMENT. REGION 1846 (N 10W 18) HAS EXPERIENCED VERY RAPID GROWTH AND PRESENTLY DISPLAYS EMERGING FLUX AND AN ARCH FILAMENT SYSTEM. ITS NEUTRAL LINE APPEARS TO BE MORE COMPLEX THAN YESTERDAY. ANY OF THE ABOVE MENTIONED REGIONS HAVE C AND M CLASS FLARE POTENTIAL. ALL OTHER DISK AND LIMB FEATURES APPEAR QUIET AND STABLE. NEW REGIONS NUMBERED TODAY ARE: 1852 (S 17E 04), 1853 (N 07E 38), 1854 (N 12E 74), 1855 (S 28E 84) AND 1856 (S 19E 83).

IB. SOLAR ACTIVITY IS EXPECTED TO BE LOW TO MODERATE WITH THE HIGH PROBABILITY OF AN M-CLASS EVENT FROM EITHER REGION 1840 OR REGION 1828. THESE AND OTHER REGIONS WILL CONTINUE TO PRODUCE C-CLASS SUBFLARES DURING THE NEXT 3 DAYS.

II. THE GEOMAGNETIC FIELD HAS BEEN ACTIVE DURING THE PAST 24 HOURS AND IS EXPECTED TO BE ACTIVE WITH INTERMITTENT PERIODS OF MINOR STORM CONDITIONS DURING THE NEXT THREE DAY FORECAST PERIOD.

III. EVENT PROBABILITIES 04 JULY - 06 JULY

CLASS M 60/60/70

CLASS X 10/10/10

PREDICTON 05/05/05

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 03 JULY 207

PREDICTED 04-06 JULY 210/212/218

90-DAY MEAN 03 JULY 174

V. GEOMAGNETIC INDICES

OBSERVED FREDERICKSBURG 02 JULY 02

ESTIMATED AFR/AP 03 JULY 17/14

PREDICTED AFR/AP 04-06 JULY 22/28 - 22/25 - 22/25

SOLTERWARN

BT