

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 03 JULY 1979

IA. SOLAR ACTIVITY HAS BEEN LOW. THE MOST IMPRESSIVE REGION PRESENTLY ON THE DISK IS REGION 1840 (N18E00). THIS REGION DISPLAYS A COMPLEX BETA-GAMMA-DELTA SPOT CONFIGURATION WITH A VERY STRONG MAGNETIC GRADIENT AND AN ARCH FILAMENT SYSTEM. REGION 1828 (N15W50) PRESENTLY CONTAINS BRIGHT POINTS AND DISPLAYS COMPACT FLARE WITH AN ARCH FILAMENT SYSTEM. REGION 1849 (N08E51) DISPLAYS A CIRCULAR NEUTRAL LINE AND AN ACTIVE FILAMENT. REGION 1846 (N10W18) HAS EXPERIENCED VERY RAPID GROWTH AND PRESENTLY DISPLAYS EMERGING FLUX AND AN ARCH FILAMENT SYSTEM. ITS NEUTRAL LINE APPEARS TO BE MORE COMPLEX THEN 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 (S17E04), 1853 (N07E38), 1854 (N12E74), 1855 (S28E84) AND 1856 (S19E83).

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 50/60/70

CLASS X 10/10/10

PROTON 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 A 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