

HFUS 1 BOU 302200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 181

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 30 JUNE 1979

IA. SOLAR ACTIVITY HAS BEEN LOW. REGION 1840 (N19E42) HAS PRODUCED A C-CLASS SUBFLARE WITH NEAR CONTINUOUS POINT BRIGHTENINGS ALONG ITS E-W NEUTRAL LINE. THE SPOT CONFIGURATION IS E-TYPE AND THE KINKS IN THE NEUTRAL LINE INDICATE INSTABILITY. REGION 1837 (N05E38) IS PRESENTLY CONFIGURED AS A REVERSE POLARITY D-TYPE SPOT GROUP BUT IS STILL A VERY SMALL REGION. REGION 1832 (N18E05) HAS PRODUCED ONE SUBFLARE AND CONTINUES TO GROW SLOWLY. REGION 1839 (S14W36) IS PRESENTLY A SPOTLESS REGION THAT HAS PRODUCED SEVERAL SUBFLARES AND MAY BE DEVELOPING AN ARCH FILAMENT SYSTEM. NEW REGION 1845 (S28E65) IS CONFIGURED WITH A B-TYPE SPOT GROUP AND ALSO CONTINUES TO GROW SLOWLY. ALL OTHER DISK AND LIMB FEATURES APPEAR QUIET AND STABLE.

IB. SOLAR ACTIVITY IS EXPECTED TO INCREASE DURING THE NEXT THREE DAY FORECAST PERIOD TO NEAR MODERATE LEVELS. THE POSSIBILITY OF SEVERAL C-CLASS EVENTS WITH ISOLATED M-CLASS EVENTS IS VERY GOOD.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET BUT IS EXPECTED TO BE UNSETTLED TO ACTIVE BY THE END OF THE FORECAST PERIOD. THE CORONAL HOLE NOW LOCATED AT CENTRAL MERIDIAN AND ROTATING WESTWARD WILL CONTRIBUTE TO THIS INCREASED MAGNETIC ACTIVITY.

III. EVENT PROBABILITIES 01 JULY - 03 JULY

CLASS M 40/50/50

CLASS X 05/05/05

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 30 JUNE 173

PREDICTED 01-03 JULY 182/187/192

90-DAY MEAN 30 JUNE 173

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 29 JUNE 04

ESTIMATED AFR/AP 30 JUNE 10/10

PREDICTED AFR/AP 01-03 JULY 07/10 - 12/16 - 17/20

SOLTERWARN

BT