

HFUS 1 BOU 052200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO
SOF NUMBER 187

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 05 JULY 1980

IA. SOLAR ACTIVITY HAS BEEN MODERATE. REGION 2550 (N27W32) HAS PRODUCED TWO SIGNIFICANT EVENTS, AN M2/SB MAX AT 0742UT AND AN M1/1B MAX AT 1555UT. IN ADDITION THIS REGION HAS PRODUCED NUMEROUS SUBFLARES. OTHER SOLAR ACTIVITY INCLUDED A SUBFAINT FLARE EACH FROM REGION 2551 (S07W30) AND NEW REGION 2552 (N21E60). ACTIVE PROMINENCE REGIONS HAVE BEEN VISIBLE AT NE08, NE15 AND SE11 AND ARE ASSOCIATED WITH THREE NEW REGIONS ROTATING OVER THE EAST LIMB. NEW REGIONS NOW VISIBLE WITH SPOT GROUPS ARE: REGION 2552, REGION 2553 (N23E74), REGION 2554 (N17E74) AND REGION 2555 (S12E77). REGION 2554 HAS BEEN SURGING DURING THE PAST HOURS. OTHER DISK AND LIMB FEATURES ARE QUIET AND STABLE.

IB. SOLAR ACTIVITY WILL BE MODERATE WITH THE GOOD PROBABILITY OF M-CLASS FLARES FROM REGION 2550. REGION 2554 ALSO HAS GOOD FLARE POTENTIAL. OTHER REGIONS OF INTEREST ARE REGION 2555 AND REGION 2551. REGION 2549 (S19W63) WILL CONTINUE TO DECAY BUT COULD PRODUCE SUBFLARES.

II. THE GEOMAGNETIC FIELD HAS BEEN ACTIVE DURING THE PAST 24 HOURS AND IS EXPECTED TO CONTINUE TO BE ACTIVE DURING THE NEXT 3-DAY PERIOD.

III. EVENT PROBABILITIES 06 JULY - 08 JULY

CLASS M 80/80/80

CLASS X 10/10/10

PREDICTON 01/05/05

RCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 05 JULY 151

PREDICTED 06-08 JULY 15.6/162/168

90-DAY MEAN 05 JULY 207

V. GEOMAGNETIC INDICES

OBSERVED FREDERICKSBURG 04 JULY 10

ESTIMATED AFR/AP 05 JULY 18/17

PREDICTED AAFR/AP 06-08 JULY 18/18 - 20/20 - 22/20

SOLTERWARN

BT