

HFUS 1 BOU 282200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 180

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 2200Z 28 JUNE 1980

IA. SOLAR ACTIVITY HAS BEEN MODERATE DURING THE PAST 24 HOURS.  
M1 X-RAY BURSTS WERE ASSOCIATED WITH THE FOLLOWING REGIONS WITH  
OPTICAL CLASSES AND MAXIMUM TIMES AS INDICATED: REGION 2522  
(S30W77) NO OPTICAL/0253UT, REGION 2538 (S17E22) SN/0330UT,  
REGION 2530 (S24W68) SB/0751UT UT AND REGION 2519 (S21W81) 1  
IB/1112 UT. ALL THESE REGIONS EXCEPT REGION 2538 ARE APPROACHING  
WEST LIMB AND, DESPITE OBSERVING DIFFICULTIES DUE TO LIMB  
PROXIMITY, ALL SEEM TO BE DECLINING. REGION 2538 IS A SURPRISING  
REGION BECAUSE IT STILL DOESN'T LOOK THE LEAST BIT COMPLEX AND  
IT CERTAINLY DOESN'T LOOK LIKE IT COULD PRODUCE AN M-CLASS  
FLARE. NEW REGION 2544 (S10E03) EMERGED TODAY AND IS GROWING  
VERY RAPIDLY BUT HASN'T FLARED YET.

IB. MODERATE ACTIVITY IS STILL POSSIBLE, MOSTLY FROM THE BIG  
COMPLEX OF REGIONS IN THE SOUTHWEST. HOWEVER, AS THESE REGIONS  
ROTATE OUT OF SIGHT THE PROSPECTS FOR ENERGETIC ACTIVITY SHOULD  
DIMINISH RAPIDLY.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET DURING THE PAST 24  
HOURS. THE FIELD IS EXPECTED TO BECOME GRADUALLY MORE UNSETTLED  
DURING THE NEXT 72 HOURS.

III. EVENT PROBABILITIES 29 JUNE - 01 JULY

CLASS M 50/40/30

CLASS X 02/01/01

PROTON 02/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 28 JUNE 196

PREDICTED 29 JUNE - 01 JULY 190/186/183

90-DAY MEAN 28 JUNE 211

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 27 JUNE 04

ESTIMATED AFR/AP 28 JUNE 03/07

PREDICTED AFR/AP 29 JUNE - 01 JULY 07/08 - 09/12 - 11/15

SOLTERWARN

BT