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FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 174

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 2200Z 22 JUNE 1980

IA. SOLAR ACTIVITY HAS BEEN MODERATE DURING THE LAST 24 HOURS.  
SEVERAL REGIONS BEGAN FLARING AFTER 1300Z. REGIONS 2516 (S10W24),  
2517 (S11W17), 2522 (S27E02), 2524 (N22W44), 2530 (S22E09). WITH  
THE EXCEPTION OF 2524 THESE ARE CLOSELY GROUPED AND REACTED  
SYMPATHETICALLY. SUBFAINT AND SUBNORMAL MAXIMA OCCURRED IN REGION  
2522 AT 1310 UT AND 1316 UT RESPECTIVELY. A C9/2B MAX IN REGION  
2517 AT 1315 UT, A SUBNORMAL MAX IN REGION 2530 AT 1317 UT. REGION  
2516 HAD A SUBBRIGHT MAX AT 1314 UT. AN M1/SB MAX OCCURRED IN  
REGION 2514 AT 1324 UT. CLASS C LEVEL ACTIVITY HAS PERSISTED  
THROUGHOUT THE DAY IN PART FROM REGION 2524, BUT MOSTLY  
FROM THE GROUP OF ASSOCIATED REGIONS. A BRIGHT PROMINENCE, NORTH-  
EAST AND HIGH 10CM RADIO FLUX CHARACTERIZE THE EAST LIMB.  
IR. SOLAR ACTIVITY IS EXPECTED TO REMAIN MODERATE TO HIGH. WITH  
CONTINUED ACTIVITY POSSIBLE FROM REGIONS 2516, 2517, 2522, 2530,  
AND FROM REGION 2524. POSSIBILITY OF ACTIVITY ALSO COMES FROM  
REGIONS 2529 (S13E44), 2532 (S10E52), WHICH MAY APPEAR MORE  
INTERESTING AFTER MOVING FURTHER ONTO THE DISK. ACTIVITY IS ALSO  
POSSIBLE FROM OLD RETURNING REGIONS.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET DURING THE LAST 24 HOURS.  
A SLIGHT INCREASE IN ACTIVITY IS LIKELY IN THE NEXT 24 HOURS.  
BELOW EVENT LEVELS OF PROTONS, NEAR 5 PARTICLES/SEC GREATER  
THAN 10 MEV HAVE ARRIVED IN RECENT HOURS. THE ARRIVAL APPEARS NOT  
TO BE A CONTINUATION FROM THE EVENT OF 21 JUNE.

III. EVENT PROBABILITIES 23 JUNE - 25 JUNE

CLASS M 30/30/80

CLASS X 20/20/20

PROTON 35/05/10

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 22 JUNE 251

PREDICTED 23-25 JUNE 272/276/276

90-DAY MEAN 22 JUNE 209

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 21 JUNE 06

ESTIMATED AFR/AP 22 JUNE 07/07

PREDICTED AFR/AP 23-25 JUNE 10/18 - 10/20 - 08/12

SOLTERWARR

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