

HFUS 3 BOU 210217

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

7 DAY FORECAST OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 0200Z 21 MAY 1979

SOLAR ACTIVITY SHOULD BE LOW UNTIL MAY 23 WHEN IT COULD BECOME  
MODERATE WITH THE EXPECTED RETURN OF REGION 1711. ACTIVITY  
SHOULD REMAIN MODERATE THROUGH THE END OF THE PERIOD.

GEOMAGNETIC CONDITIONS ARE EXPECTED TO BE ACTIVE THROUGH MAY 27.

SOLTERWARN

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HFUS 3 BOU 210218

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

27-DAY FORECAST OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 0201Z 21 MAY 1979

SOLAR ACTIVITY SHOULD BE LOW UNTIL MAY 23. AT THAT TIME THE RETURN  
OF LONGITUDES WHICH WERE ACTIVE LAST ROTATION INDICATES MODERATE  
ACTIVITY THROUGH JUNE 5. ACTIVITY THEN SHOULD DECREASE TO LOW  
LEVELS THROUGH JUNE 17 WITH POSSIBLE ISOLATED M-CLASS EVENTS FROM  
REGIONS 1729 AND 1743.

GEOMAGNETIC ACTIVITY IS EXPECTED TO BE ACTIVE THROUGH MAY 27  
AND THEN POSSIBLY JUNE 07-08. QUIET CONDITIONS ARE EXPECTED MAY  
30 - JUNE 02 WITH QUIET TO UNSETTLED CONDITIONS FOR THE REST OF  
THE FORECAST PERIOD.

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HFUS 1 BOU 212200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 141

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 2200Z 21 MAY 1979

IA. SOLAR ACTIVITY HAS BEEN GENERALLY LOW; HOWEVER, A CLASS M  
X-RAY BURST WAS NOTED AT 210634 U.T. (MAXIMUM). NO OPTICAL REPORT  
WAS RECEIVED FOR THIS EVENT BUT SUBSEQUENT REPORTS ON THE  
BEHAVIOR OF REGION 1761 (S21E24) WOULD SUGGEST THAT IT WAS THE  
MOST LIKELY SOURCE. REGION 1761 IS BRIGHT, COMPACT, HAS ARCH  
FILAMENTS AND IS FLUCTUATING IN INTENSITY. REGION 1761 IS SECOND  
IN SIZE TO REGION 1759 (N17E52) AND AT ITS CURRENT GROWTH RATE,  
SHOULD BE THE LARGEST REGION ON THE DISK BY TOMORROW. NO OTHER  
REGION ON THE DISK RIVALS 1761 IN DYNAMIC BEHAVIOR BUT TWO NEW  
REGIONS ARE VISIBLE TODAY AND MAY SHOW MORE DYNAMIC TENDENCIES  
AS THEY DEVELOP. ONE OF THESE, 1762 (N24W28), WAS BORN ON THE  
DISK AND THE OTHER, 1763 (S34E77), ROTATED OVER THE EAST LIMB.  
IB. SOLAR ACTIVITY SHOULD BE LOW TO MODERATE DURING THE NEXT 24  
HOURS AS REGION 1761 CONTINUES TO FLARE IN ITS RESTRUCTURING  
PROCESS.

II. THE GEOMAGNETIC FIELD SHOULD EXPERIENCE THE EFFECTS OF A HIGH  
SPEED SOLAR STREAM OVER THE NEXT SEVERAL DAYS WITH RESULTING  
ACTIVE TO MINOR STORM CONDITIONS.

III. EVENT PROBABILITIES 22 MAY - 24 MAY

CLASS M 50/50/50

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 21 MAY 152

PREDICTED 22-24 MAY 151/152/152

90-DAY MEAN 21 MAY 180

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 20 MAY 12

ESTIMATED AFR/AP 21 MAY 10/17

PREDICTED AFR/AP 22-24 MAY 20/35 - 15/30 - 15/25

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