

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

BT

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.

SOLTERWARN

BT

HFUSL 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 50/5 0/5 0

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 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

SOLAR WARNS

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