

HFUS 1 BOU 262200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, CO

SDF NUMBER 299

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 2200Z 26 OCTOBER 1978

I A. SOLAR ACTIVITY HAS REMAINED LOW. THERE HAVE BEEN SEVERAL MINOR X-RAY BURSTS AND X-RAY FLARES TODAY IN REGIONS 1366 (S16E30), 1369 (S18E49) AND 1371. REGION 1355 (N27W30) REMAINS THE MOST IMPRESSIVE DISK REGION BUT HAS CHANGED LITTLE FROM YESTERDAY. IT IS CLASS DKI/BETA. A NEW REGION (1370, N22E18) IS DEVELOPING WITH STRONG ARCH FILAMENTS AND BRIGHT POINTS. OLD REGION 1320 HAS RETURNED OVER EAST LIMB AND IS NUMBER 1371 (S14E74). IT PRODUCED 3 CLASS M FLARES AND NUMEROUS MINOR EVENTS LAST ROTATION. IT WAS REVERSED POLARITY THEN AND IT HAS TENTATIVELY BEEN IDENTIFIED AS HAVING SAME CONFIGURATION THIS ROTATION.

I B. THE MOST PROBABLE SOURCE OF ENERGETIC EVENTS ARE REGIONS 1355, 1371 AND 1369.

III. THE GEOMAGNETIC FIELD WAS QUIET UNTIL 26/1500Z WHEN IT BECAME UNSETLED TO ACTIVE. THE ACTIVITY IS PROBABLY DUE TO A MINOR CORONAL HOLE AND WILL PROBABLY PEAK TONIGHT AND DECAY SLOWLY OVER THE NEXT 24-36 HOURS.

III. EVENT PROBABILITIES 27 OCTOBER - 29 OCTOBER

CLASS M 30/40/50

CLASS X 10/10/10

PROTON 10/10/10

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 26 OCTOBER 156

PREDICTED 27 - 29 OCTOBER 160/160/160

90-DAY MEAN 26 OCTOBER 143

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 25 OCTOBER 26

ESTIMATED AFR/AP 26 OCTOBER 13/14

PREDICTED AFR/AP 27 - 29 OCTOBER 15/15 - 10/12 - 08/10

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ISSUED 2200Z 26 OCTOBER 1979

IA. SOLAR ACTIVITY HAS BEEN MODERATE DURING THE PAST 24 HOURS.  
REGION 2078 (S18E02) HAS PRODUCED OCCASIONAL LARGE C-CLASS SUBFLARES  
AS IT MATURES. THE REGION NOW CONTAINS A WEAK MAGNETIC DELTA CON-  
FIGURATION. ALTHOUGH THE REGION IS STILL GROWING SLOWLY IN WHITE  
LIGHT, IT APPEARS TO HAVE DULLED SOMEWHAT IN H-ALPHA. REGION 2058  
(N26W79) NOW APPROACHING THE WEST LIMB HAS PRODUCED A FEW SMALL  
C-CLASS SUBFLARES DURING THE PAST 24 HOURS. THIS REGION NOW SEEMS  
TO BE IN AN ADVANCED STATE OF DECAY.

IB. SOLAR ACTIVITY IS EXPECTED TO CONTINUE MODERATE UNTIL REGION  
2078 BEGINS TO DECLINE SUBSTANTIALLY. WHEN THAT HAPPENS SOLAR  
ACTIVITY IS EXPECTED TO ENTER A TEMPORARY LULL.

II. THE GEOMAGNETIC FIELD HAS BEEN MILDLY UNSETLED TO QUIET DURING  
THE PAST 24 HOURS. THE FIELD IS EXPECTED TO BE MILDLY UNSETLED  
THROUGH THE NEXT 3 DAYS, TRENDING TOWARD QUIET LEVELS AT THE  
END OF THE PERIOD.

III. EVENT PROBABILITIES 27 OCTOBER - 29 OCTOBER 1979

CLASS M 50/50/40

CLASS X 05/05/02

PROMPT 05/05/05

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 26 OCTOBER 205

PREDICTED 27 - 29 OCTOBER 202/199/194

90-DAY MEAN 26 OCTOBER 196

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 25 OCTOBER 10

ESTIMATED AFR/AP 26 OCTOBER 07/10

PREDICTED AFR/AP 27 - 29 OCTOBER 10/12 07/10 07/08

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