

HFUS 1 BOU 062200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, COLO

SDF NUMBER 065

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 2200Z 06 MARCH 1979

IA. SOLAR ACTIVITY HAS BEEN LOW DURING THE PAST 24 HOURS.  
ACTIVITY HAS CONSISTED OF MANY C-CLASS X-RAY BURSTS ASSOCIATED  
WITH SUBFLARES. REGION 1591 (S 19W 64) HAS SHOWN THE MOST ACTIVITY  
WITH SEVERAL SUBFLARES, THE LARGEST TWO, A C3/SN MAXING AT 1724Z,  
AND A C3/SN MAXING AT 1810Z. SUBFLARE ACTIVITY WAS ALSO OBSERVED  
FROM REGIONS 1599 (S 21W 12), 1601 (N 13E 09), 1605 (S 16E 23), AND 1606  
(N 12E 22). GROWTH AND ARCH FILAMENTS HAVE BEEN REPORTED WITH  
REGIONS 1591 AND 1605. NEW REGION 1613 (S 26E 76) HAS ROTATED  
OVER THE SOUTHEAST LIMB AS AN H-TYPE. REGION 1605 WAS THOUGHT  
TO BE TWO SEPARATE REGIONS BASED ON H-ALPHA AND SPOT ANALYSIS,  
BUT MAGNETIC DATA INDICATES THE AREA TO BE ALL ONE REGION. THE  
TRAILER PORTION OF THE REGION IS BETA-GAMMA MAGNETICALLY WITH  
TIGHT GRADIENTS.

IB. SOLAR ACTIVITY WILL BE MODERATE DURING THE FORECAST PERIOD.  
REGIONS 1591, 1605 AND 1606 ARE SIGNIFICANTLY COMPLEX TO  
PRODUCE ISOLATED M-CLASS X-RAY EVENTS. INCREASED ACTIVITY CAN BE  
EXPECTED FROM RGN 1605 AS IT DEVELOPS.

II. THE GEOMAGNETIC FIELD HAS BEEN ACTIVE DURING THE PAST 24  
HOURS. THE ACTIVITY HAS BEEN ASSOCIATED TO A FILAMENT WHICH  
DISAPPEARED BETWEEN THE 2ND AND 3RD OF MARCH. THE FILAMENT WAS  
LOCATED NEAR CENTRAL MERIDIAN AND THE EQUATOR ON THE 2ND. THE  
MAGNETIC FIELD IS EXPECTED TO GRADUALLY RETURN TO UNSETLED  
CONDITIONS DURING THE NEXT 48 HOURS.

III. EVENT PROBABILITIES 07 MARCH - 09 MARCH

CLASS M . 80/80/70

CLASS X . 10/10/10

PROTON . 05/05/05

PCAF . GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED . 06 MARCH 187

PREDICTED . 07-09 MARCH 190/192/186

90-DAY MEAN . 06 MARCH 196

V. GEOMAGNETIC INDICES

OBSERVED FREDERICKSBURG . 07 MARCH 07

ESTIMATED AFR/AP . 06 MARCH 25/30

PREDICTED AFR/AP . 07-09 MARCH 15/20 - 12/15 - 07/07

SOLTERWARN

BT