

HFUS 1 BOU 832115

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, COLO

SDF NUMBER 123

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 2200Z 03 MAY 1979

I. SOLAR ACTIVITY WAS LOW TO MODERATE DURING THE PAST 24 HOURS.  
THE LARGEST EVENT WAS A C8/1N FLARE FROM REGION 1711 (N15W19) WHICH  
MAXED AT ~130Z. TYPE III AND TYPE V RADIO HELIOGRAPH BURSTS WERE  
OBSERVED WITH THIS EVENT ALONG WITH 48 FLUX UNITS AT 10.7 CM.  
THE REGION IS DEACYING SLOWLY IN AREA AND SPOT COUNT, BUT REMAINS  
RELATIVELY COMPLEX MAGNETICALLY AS A BETA GAMMA. REGION 1705  
(N18W71) HAS CONTRIBUTED ONLY SMALL C-CLASS SUBFLARES TODAY AS IT  
CONTINUES TO DECLINE IN ALL PARAMETERS. REGION 1717 (S26E41) WAS THE  
ONLY OTHER SIGNIFICANT DISK REGION, PRODUCING A SUBFLARE AT 1718Z  
MAXIMUM. NEW REGION 1723 (S25E72) HAS ROTATED OVER THE EAST LIMB  
AS A SMALL STABLE H-TYPE GROUP. THE EXPECTED RETURN OF ACTIVE  
REGION 1681 DUE BACK TODAY, NEVER MATERIALIZED.

II. SOLAR ACTIVITY IS EXPECTED TO REMAIN AT MODERATE LEVELS THROUGH  
THE FORECAST PERIOD, HOWEVER THE TREND IS FOR DECREASING ACTIVITY  
BY THE THIRD DAY. REGION 1705 COULD GIVE A LAST ISOLATED M-CLASS  
EVENT PRIOR TO ROTATION OVER THE WEST LIMB. REGION 1711 REMAINS  
CAPABLE OF M-CLASS EVENTS, OR AN ISOLATED X-CLASS FLARE.

III. THE GEOMAGNETIC FIELD HAS BEEN AT LOW UNSETLED LEVELS TODAY.  
SIMILAR CONDITIONS ARE EXPECTED UNTIL LATE IN THE ZULU DAY  
TOMORROW, WHEN THE EFFECTS OF YESTERDAY'S M9/2B FLARE WILL BE  
NOTICED. AT THIS TIME, THE FIELD IS EXPECTED TO BE NEAR MINOR STORM  
LEVELS FOR ABOUT 18 HOURS, FOLLOWED BY UNSETLED CONDITIONS AGAIN  
ON THE 6TH OF MAY.

III. EVENT PROBABILITIES 24 MAY - 06 MAY

CLASS M 9 2/80/70

CLASS X 5 9/4 0/30

PROMPT 2 0/2 0/20

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 03 MAY 163

PREDICTED 04-06 MAY 160/157/154

90-DAY MEAN 03 MAY 189

GEOMAGNETIC INDICES

OBSERVED FREDERICKSBURG 02 MAY 16

ESTIMATED AFR/AP 03 MAY 08/08

PREDICTED AFR/AP 04 - 06 MAY 12/16/ 30/32 10/16

SOLARFLARE

BT