

HFUS 1 BOU 032115

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

IA. 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 DECAYING 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.

IB. 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.

II. THE GEOMAGNETIC FIELD HAS BEEN AT LOW UNSETTLED LEVELS TODAY. SIMILAR CONDITIONS ARE EXPECTED UNTIL LATE IN THE ZULU DAY TOMORROW, WHEN THE EFFECTS OF YESTERDAYS 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 UNSETTLED CONDITIONS AGAIN ON THE 6TH OF MAY.

III. EVENT PROBABILITIES 04 MAY - 06 MAY

CLASS M 90/80/70

CLASS X 50/40/30

PROTON 20/20/20

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 A 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

SOLTERWARN

BT