

HFUS 1 BOU 272200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, COLO

SDF NUMBER 087

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 27 MARCH 1980

IA. SOLAR ACTIVITY HAS BEEN MODERATE OVER THE PAST 24 HOURS.
REGION 2363 (N24E61) HAS APPEARED INCREASINGLY INTERESTING AS
IT HAS ROTATED ON TO THE VISIBLE DISK. THE REGION, THUS FAR,
HAS PRODUCED AN M2.1N FLARE ON 27/1253Z (MAX) WITH AN ASSOCI-
ATED TENFLARE OF 715 FU AT 2695 MHZ AND AN M5.1B FLARE ON 27/
1842Z (MAX) WITH AN ASSOCIATED RADIO BURST OF 320 FU AT
2695 MHZ. BOTH EVENTS HAD SHORT WAVE FADES BUT NO REPORTED
TYPES II OR IV RADIO SWEEPS. POST-FLARE LOOPS WERE SEEN ON THE
NE LIMB WITH BOTH EVENTS AND 20 PERCENT OR BETTER UMBRAL COVER-
AGE AND STRONG SURGES WERE SEEN WITH THE SECOND. REGION 2356
(S28E19) IS A REVERSED POLARITY GROUP THAT HAS PRODUCED BRIGHT
POINTS AND FLARE FLUCTUATIONS. OTHER REGIONS OF INTEREST ARE
2358 (N23E23) AND 2360 (N14E11), BOTH ARE D-TYPE BETA GAMMA
GROUPS.

IB. SOLAR ACTIVITY SHOULD REMAIN MODERATE DURING THE NEXT
PERIOD AS ACTIVITY CONTINUES TO INCREASE. REGION 2363 APPEARS TO
BE THE LEADING CONTENDER TO PRODUCE ENERGETIC EVENTS.

II. THE GEOMAGNETIC FIELD WAS GENERALLY UNSETTLED DURING THE
LAST PERIOD AFTER FALLING FROM THE HIGHER LEVELS RECORDED ON
26 MARCH. THE FIELD SHOULD REMAIN AT UNSETTLED LEVELS DURING
THE NEXT 24 HOURS.

III. EVENT PROBABILITIES 28-30 MARCH

CLASS M 70/80/80

CLASS X 15/15/15

PROTON 01/05/10

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 27 MARCH 209

PREDICTED 28-30 MARCH 215/218/222

30-DAY MEAN 27 MARCH 193

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 26 MARCH 23

ESTIMATED AFR/AP 27 MARCH 08/10

PREDICTED AFR/AP 28-30 MARCH 08/08 12/15 15/20

SOLTERWARN

BT