

HFUS 1 BOU 312116

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, COLO

SDF NUMBER 090

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 31 MARCH 1979

IA. SOLAR ACTIVITY HAS BEEN MODERATE. TWENTY-SIX FLARES HAVE
OCCURRED DURING THE PAST 24 HOURS IN EIGHT DIFFERENT REGIONS.
THE MOST SIGNIFICANT EVENT WAS A M1/1B FLARE AT 30/2311Z IN
REGION 1661 (S23E19). MODERATE SHORT WAVE FADE AND A 77 FU BURST
AT 2700 MHZ ACCOMPANIED THIS FLARE. REGION 1661 REMAINS WITH A
VERY COMPLEX NEUTRAL LINE WITH A DELTA CONFIGURATION IN THE
PENUMBRAL STRUCTURE BEHIND THE LARGE LEADER SPOT. THE PENUMBRAL
STRUCTURE CONTINUES TO CHANGE DAILY IN REGION 1661. THE ANOMALOUS
SPOT AHEAD OF THE LEADER OF REGION 1649 (N07W60) REMAINS AND
IS THE SITE OF INTERMITTENT SUBFLARE ACTIVITY. THE OTHER
REGIONS ARE SIMPLE IN NATURE. QUITE A FEW OF THE FLARES THAT
HAVE OCCURRED SEEM TO BE SYMPATHETIC IN NATURE.

IB. SOLAR ACTIVITY IS EXPECTED TO REMAIN MODERATE WITH REGION
1661 DOMINATING AS THE SOURCE OF THE MORE ENERGETIC FLARE ACTIVITY.

II. THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED TO ACTIVE. THE FIELD
IS EXPECTED TO BE GENERALLY UNSETTLED WITH PERIODS AT ACTIVE
LEVEL, PARTICULARLY ON 01 APRIL.

III. EVENT PROBABILITIES 01-03 APR

CLASS M 85/85/85

CLASS X 15/15/15

PROTON 15/15/20

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 31 MAR 212 (FLARE ENHANCED)

PREDICTED 01-03 APR 210/210/208

90-DAY MEAN 31 MAR 199

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 30 MAR 16

ESTIMATED AFR/AP 31 MAR 12/14

PREDICTED AFR/AP 01-03 APR 14/15 - 12/13 - 10/11

SOLTERWARN

BT