

HFUS 1 BOU 252200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, COLO

SDF NUMBER 085

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 25 MARCH 1980

IA. SOLAR ACTIVITY HAS BEEN LOW DURING THE LAST 24 HOURS. A
C7/IB FLARE FROM REGION 2339 (S27W77) WHICH OCCURRED ON 25/0430Z
(MAX) WAS THE MOST INTERESTING EVENT; IT WAS ACCOMPANIED BY
TYPES II AND III RADIO SWEEPS AND MINOR SHORT WAVE FADES.
AMONG OTHER REGIONS WHICH PRODUCED C-CLASS X-RAY EVENTS WERE
REGION 2341 (N13W32), A C4/IN FLARE ON 25/0155Z (MAX) AND
REGION 2340 (S23W35) WHICH PRODUCED A IN FLARE ON 25/0424Z
(MAX). THIS EVENT PROBABLY CONTRIBUTED TO THE C7 X-RAY FLUX
WHICH WAS REPORTED FOR REGION 2339 ABOVE. REGION 2356 (S2E45)
APPEARS TO BE REVERSED POLARITY MAGNETICALLY, AND MAY HAVE AN
ISOLATED POLE IN THE POSITIVE LEADER FIELDS. IT DOES NOT CUR-
RENTLY APPEAR IMPRESSIVE IN H-ALPHA. REGION 2360 (N15E38) IS A
NEW BIPOLE SPOT GROUP THAT HAS APPARENTLY SUDDENLY APPEARED. THE
NORTHEAST LIMB AS A WHOLE APPEARS MAGNETICALLY COMPLEX AND
MAY BE INDICATIVE OF IMPENDING INCREASED SOLAR ACTIVITY.

IB. SOLAR ACTIVITY IS FORECAST TO BE LOW TO MODERATE DURING
THE NEXT 24-48 HOUR PERIOD. THE DISK APPEARS TO BE MORE
DYNAMIC WITH MORE EMERGING MAGNETIC FLUX AND INCREASING X-RAY
AND 10 CM BACKGROUND FLUXES WHICH SHOULD INCREASE THE POTENTIAL
FOR MORE SIGNIFICANT EVENTS. REGION 2356 HAS GOOD GROWTH
POTENTIAL AND THE REGIONS IN THE NORTHEAST GRADIENT, 2357 (N2E39)
2358 (N25E46) AND 2359 (N15E53) ARE WORTHY OF INCREASED ATTEN-
TION FOR GROWTH AND DEVELOPMENT.

II. THE GEOMAGNETIC FIELD WAS QUIET DURING THE PAST PERIOD.
THE FIELD SHOULD REMAIN AT PREDOMINATELY QUIET TO UNSETTLED
LEVELS OVER THE NEXT 24 HOURS.

III. EVENT PROBABILITIES 26-28 MARCH

CLASS M 35/40/50

CLASS X 01/01/05

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 25 MARCH 190

PREDICTED 26-28 MARCH 190/190/192

90-DAY MEAN 25 MARCH 192

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 24 MARCH 06

ESTIMATED AFR/AP 25 MARCH 04/07

PREDICTED AFR/AP 26-28 MARCH 07/10 06/08 06/08

SOLTERWARN

BT