

HFUS-1 BOU 252200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, COLO

SDF NUMBER 056

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

IA. SOLAR ACTIVITY WAS AT LOW LEVELS DURING THE PAST 2 HOURS.
A C6/NO OPTICAL X-RAY FLARE WAS RECORDED AT 0506 UT. A SB FLARE
WAS OBSERVED AT NE 18, BEHIND THE LIMB, START AT 1550 UT.
MATERIAL WAS EJECTED OUT TO .15 RADII. THE X-RAY LEVEL STARTED
A SLOW RISE AT 1552 UT THE RISE REACHED A MAXIMUM OF C8 AT 1718
UT. A C5/SB, FROM REGION 2296 (S13E69), OCCURRED AT 1622 UT THIS
EVENT WAS OF LESS THAN 15 MINUTES DURATION. AT 1943 UT. A C7
X-RAY EVENT STARTED MAXIMUM WAS REACHED AT 2002 UT THIS EVENT
APPARENTLY OCCURRED OVER THE NE LIMB. NEW REGIONS TODAY 2297
(N28W00) D-TYPE RAPID GROWTH AND REGION 2298 (S15E82) D-TYPE.

IB. SOLAR ACTIVITY IS EXPECTED TO BE AT OR NEAR MODERATE LEVELS
AT END OF FORECAST PERIOD. REGION 2297 IS SHOWING RAPID GROWTH
AND MAY BE A FLARE PRODUCER SOON. REGION 2294 (S25E61), 2296,
AND 2297 HAVE EITHER HAD FLARES OR STRONG PLAGE FLUCTUATION.
CURRENT ACTIVITY FROM THE NE LIMB, ALONG WITH NEW REGIONS
IN THE SE, INDICATE A SHARP INCREASE IN ACTIVITY SHOULD OCCUR.

II. THE GEOMAGNETIC FIELD HAS BEEN AT UNSETTLED LEVELS DURING
THE PAST 24 HOURS. THE FIELD IS EXPECTED TO BE UNSETTLED, WITH
AN OCCASIONAL ACTIVE PERIOD, DURING THE NEXT 24 HOURS. THEN
UNSETTLED OCCASIONALLY QUIET THE REST OF THE FORECAST PERIOD.

III. EVENT PROBABILITIES 26 - 28 FEB

CLASS M 50/60/80

CLASS X 05/10/20

PROTON 01/01/05

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 25 FEB 169

PREDICTED 26-28 FEB 178/195/210

90-DAY MEAN 25 FEB 205

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 24 FEB 06

ESTIMATED AFR/AP 25 FEB 08/10

PREDICTED AFR/AP 26-28 FEB 11/15 08/12 08/10

SOLTERWARN

BT