

HFUS 1 800 262200

FROM SPACE ENVIRONMENT SERVICE CENTER BOULDER, COLO

SDF NUMBER 086

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 26 MARCH 1980

IA. SOLAR ACTIVITY HAS INCREASED TO NEAR MODERATE LEVELS. C-
CLASS X-RAY BURSTS HAVE BEEN OCCURRING ABOUT EVERY HALF HOUR
FROM VARIOUS REGIONS ON THE DISK. THE LARGEST, A C9/SB AT 1334Z
MAXIMUM OCCURRED IN REGION 2339 (S28W87). IMPORTANCE ONE SHORT
WAVE FADES AND MINOR RADIO BURSTS WERE OBSERVED WITH THIS EVENT.
ALTHOUGH THE REGION APPEARS TO BE DECAYING IN WHITE LIGHT, LIMB
SURGING AND FLARE ACTIVITY TODAY INDICATE IT REMAINS A THREAT.
REGION 2359 (N15E42) PRODUCED A C6/IB FLARE AT 0007Z MAXIMUM
WITH AN ASSOCIATED TYPE II RADIO SWEEP. ARCH FILAMENTS AND SLOW
GROWTH HAVE BEEN REPORTED. NEW REGION 2363 (N25E72) HAS ROTATED
OVER THE EAST WITH A VERY LARGE LEADER AND MINOR SURGING VISIBLE
AT THE LIMB.

IB. SOLAR ACTIVITY IS EXPECTED TO INCREASE TO MODERATE LEVELS
WITHIN THE NEXT THREE DAYS. REGIONS 2359, 2357 (N10E37), 2360
(N15E25) AND 2356 (S28E34) ARE ALL GROWING SLOWLY AND COULD PRO-
DUCE OUR FIRST M-CLASS FLARE IN NEARLY A MONTH. IF REGION 2363
DISPLAYS TRAILER SPOTS AS IT ROTATES OVER EAST LIMB IT COULD BE
A SIGNIFICANT FLARE PRODUCER. AN ACTIVE PROMINENCE AT SE 30
COULD INDICATE STILL ANOTHER ACTIVE AREA BEHIND THE LIMB.

II. THE GEOMAGNETIC FIELD BECAME ACTIVE EARLY IN THE ZULU DAY
TODAY. PROBABLE CAUSE HAS BEEN LINKED TO A SOLAR SECTOR BOUNDARY
AT WEST 62 (CARRINGTON 318) AND SMALL CORONAL HOLE IMMEDIATELY
BEHIND THE BOUNDARY. THE FIELD HAS QUIETED SOMEWHAT AND IS
EXPECTED TO GRADUALLY DECREASE TO LOW UNSETTLED CONDITIONS
THROUGH THE NEXT THREE DAYS.

III. EVENT PROBABILITIES 27 - 29 MARCH

CLASS M 40/50/50

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 26 MAR 186

PREDICTED 27 - 29 MAR 188/190/190

90-DAY MEAN 26 MAR 192

V. GEOMAGNETIC INDICES

OBSERVED FREDERICKSBURG 25 MAR 06

ESTIMATED AFR/AP 26 MAR 19/27

PREDICTED AFR/AP 27 - 29 MAR 14/15 08/08 08/08

SOLTERWARN

BT