

HFUS 1 BOU 192200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, COLO

SDF NUMBER 079

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 19 MARCH 1980

I. THE PACE OF SOLAR ACTIVITY HAS INCREASED SOMEWHAT DURING
THE PAST 24 HOURS. REGION 2339 (S27W04), WHICH COULD REASONABLY
BE DIVIDED INTO TWO SEPARATE REGIONS, HAS SHOWN SUBSTANTIAL
GROWTH IN WHITE LIGHT AND IN H-ALPHA INTENSITY. THIS REGION
CONTAINS TWO SEPARATE ARCH FILAMENT SYSTEMS AND A MIXED MAGNETIC
POLARITY SITUATION (GAMMA CONFIGURATION) WHICH IMPLIES A TIGHTER
MAGNETIC GRADIENT. REGION 2339 HAS PRODUCED MOST OF THE DOZEN
C-CLASS SUBFLARES NOTED DURING THIS UT DAY. REGION 2343 (S19W55)
HAS BRIGHTENED IN H-ALPHA AND SHOWS SOME MINOR MAGNETIC COMPLEX-
ITY. IT HAS, HOWEVER, PRODUCED ONLY A COUPLE OF SCATTERED SMALL
C-CLASS SUBFLARES. TWO NEW REGIONS 2346 (N06E76) AND 2347
(S28E67) HAVE APPEARED AT THE EAST LIMB. SUBFLARES WERE REPORTED
IN REGION 2346 BY CULGODORA AS SATELLITE X-RAY SENSORS SHOWED
RISING X-RAY BACKGROUND VALUES CHARACTERISTIC OF LIMB ACTIVITY.
OPTICAL REPORTS INDICATE A SURGING ACTIVE REGION MAY BE APPROACH-
ING THE EAST LIMB BEHIND REGION 2346.

II. SOLAR ACTIVITY IS EXPECTED TO BE LOW TO OCCASIONALLY
MODERATE THROUGH THE NEXT 24 HOURS.

III. EVENT PROBABILITIES 20 - 22 MARCH 1980
CLASS M 20/25/30
CLASS X 01/01/01
PROTON 01/01/01
PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 19 MAR 164

PREDICTED 20 - 22 MAR 166/168/172

90-DAY MEAN 19 MAR 192

V. GEOMAGNETIC INDICES

OBSERVED FREDERICKSBURG 18 MAR 04

ESTIMATED AFR/AP 19 MAR 08/08

PREDICTED AFR/AP 20-22 MAR 07/07 - 07/08 - 07/08

SOLARWARN

BT