

SHEUSS 1 POU 271400

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 0864

JCTNT USAE/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1200UT 27 MARCH 1981

I. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
26/1200UT TO 27/1200UT:

SOLAR ACTIVITY HAS BEEN MODERATE. TWO M1/SB FLARES IN REGION 2993 (N14W36) AND ONE C5/1B IN REGION 2991 (N10W54) WITH SIGNIFICANT DISCRETE CENTIMETRIC EMISSION MADE UP MOST OF THE ACTIVITY FOR THE PERIOD. REGION 2993 HAS BEEN RESTRUCTURING SHOWING SOME DECAY AND GROWTH IN THE TRAILER. THE REGION APPEARS TO NO LONGER HAVE A DELTA. REGION 2999 (S42E16) IS EXTREMELY COMPACT AND SHOWS INCREASING PROSPECT FOR ACTIVITY. BEHIND THE LIMB ACTIVITY COULD STILL OCCUR IN REGION 2984 (NE08).

II. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY SHOULD REMAIN MODERATE WITH ACTIVITY OCCURRING PRINCIPALLY FROM REGION 2993. SMALLER CONTRIBUTIONS MAY ARISE FROM REGIONS 2999, 3001 (N21E27) AND FROM THE LIMBS WHERE REPEATED SURGING HAS BEEN OBSERVED.

III. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD IS SUBSIDING SLOWLY FROM ACTIVE LEVELS OF 26 MARCH. IT IS LIKELY TO REMAIN AT UNSETTLED LEVELS FROM ACTIVITY ASSOCIATED WITH RECENT LARGE FLARES, PARTICULARLY THE X1/2B FLARE OF 25/2036Z.

IV. EVENT PROBABILITIES: 28-30 MARCH:

CLASS M 70/70/70

CLASS X 05/05/05

PROTON 05/05/05

PCAF GREEN

V. OTTAWA 10.7 FLUX

OBSERVED 26 MARCH 204

ESTIMATED 27 MARCH 210

PREDICTED 28-30 MARCH 224/214/216

90 DAY MEAN 26 MARCH 195

VI. GEOMAGNETIC A INDICES

OBSERVED AFR 25 MARCH 37 AP 26 MARCH 24

ESTIMATED AFR 26 MARCH 22 AFR/AP 27 MARCH 15/20

PREDICTED AFR/AP 28-30 MARCH 12/12 10/12 08/10

SOLTERWARN

BT

HFUS 3 BOU 272200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 086B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200UT 27 MAR 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
27/1200UT TO 27/2200UT:

SOLAR ACTIVITY HAS BEEN LOW. REGION 2993 (N14E43) CONTINUES
A SLOW DECAY AND THE SPOT GROUP HAS SIMPLIFIED. REGION 2999
(S42W02) IS GROWING AND PRODUCED A C3/SB AT 27/1629Z.

IB. SOLAR ACTIVITY FORECAST:

MODERATE SOLAR ACTIVITY IS EXPECTED DURING THE FORECAST PERIOD
FROM REGION 2993 AND POSSIBLY 2999.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS BEEN UNSETLED. UNSETLED TO ACTIVE
CONDITIONS ARE EXPECTED FROM RECENT LARGE FLARES AND IN
PARTICULAR THE X1/2B ON 25 MARCH.

III. EVENT PROBABILITIES: 28-30 MARCH

CLASS M 70/70/60

CLASS X 05/05/02

PROTON 05/05/01

PCAF YELLOW

IV. OTTAWA 10.7 FLUX

OBSERVED 27 MARCH 198

PREDICTED 28-30 MARCH 195/190/188

90 DAY MEAN 27 MARCH 195

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 26 MARCH 29/24

ESTIMATED AFR/AP 27 MARCH 12/20

PREDICTED AFR/AP 28-30 MAR 20/20 - 15/20 - 15/15

SOLTERWARN

BT