

HEUS 1 ROL 271400

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

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.  
ISSUED 1200UT 27 MARCH 1981

IA. 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 SIG-  
NIFICANT DISCRETE CENTIMETRIC EMISSION MADE UP MOST OF THE  
ACTIVITY FOR THE PERIOD. REGION 2993 HAS BEEN RESTRUCTURING SHOW-  
ING 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 2974 (NE08).

IB. 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 RE-  
PEATED SURGING HAS BEEN OBSERVED.

II. GEOPHYSICAL SUMMARY AND FORECAST:

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

III. EVENT PROBABILITIES: 28-30 MARCH

CLASS M 70/70/70

CLASS X 05/05/05

PROTON 05/05/05

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 25 MARCH 204

ESTIMATED 27 MARCH 210

PREDICTED 28-30 MARCH 214/216/216

90 DAY MEAN 25 MARCH 195

V. 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

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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 UNSETTLED. UNSETTLED 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