

HFUS 1 BOU 281405

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 059A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1200UT 28 FEB 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM

27/1200UT TO 28/1200UT:

SOLAR ACTIVITY HAS BEEN MODERATE. THE MOST ENERGETIC EVENT SINCE 27/1200UT WAS A CLASS M1 FLARE IN REGION 2958 (S13E29) BEGINNING AT 27/2315UT ASSOCIATED WITH A SUBFLARE IN THAT REGION. SMALL FLARES, ALL LESS THAN CLASS M, BEEN OCCURRING IN REGION 2960 (S13E58). ALL CURRENT REGIONS ARE GENERALLY REPORTED AS STABLE WITH SLIGHT DECAY THE MOST FREQUENT COMMENT. SOME RESTRUCTURING IS REPORTED IN THE LARGE COMPLEX REGION 2954 (S16E04) AND A SMALL AMOUNT OF EMERGING FLUX HAS BEEN REPORTED IN 2958 THOUGH NOTHING SUFFICIENT TO TRIGGER ENERGETIC FLARES.

IB. SOLAR ACTIVITY FORECAST:

THE CURRENT LULL ALL ACROSS THE SOLAR DISK IS EXPECTED TO BE BROKEN AT SOME POINT BY AN INCREASE IN MODERATE ACTIVITY IN SEVERAL REGIONS. PROBABILITIES REMAIN HIGH FOR MAJOR EVENTS TO OCCUR IN REGIONS 2958 (MOST LIKELY) OR 2954.

II. GEOPHYSICAL SUMMARY AND FORECAST:

AS 2958 AND 2954 MOVE WESTWARD PAST CENTRAL MERIDIAN, THE CHANCES INCREASE THAT A MAJOR EVENT IN EITHER ONE WOULD PRODUCE A SUBSTANTIAL PROTON EVENT OR MAGNETIC STORM AT THE EARTH. THE GEOMAGNETIC FIELD IS EXPECTED TO REMAIN AT ACTIVE LEVELS DUE TO FLARES THAT HAVE ALREADY OCCURRED.

III. EVENT PROBABILITIES 01 MARCH - 03 MARCH

CLASS M 95/95/95

CLASS X 55/55/55

PROTON 35/40/45

PCAF YELLOW

IV. OTTAWA 10.7 FLUX

OBSERVED 27 FEB 240

ESTIMATED 28 FEB 240

PREDICTED 01-03 MAR 240/240/238

90 DAY MEAN 27 FEB 202

V. GEOMAGNETIC A INDICES

OBSERVED AFR 26 FEB 20 AP 27 FEB 22

ESTIMATED AFR 27 FEB 18 AFR/AP 28 FEB 20/25

PREDICTED AFR/AP 01-03 MAR 30/35 25/25 20/18

SOLTERWARN

BT

HFUS 3 BOU 282119

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 059B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.  
ISSUED 2200UT 28 FEBRUARY 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM  
28/1200UT TO 28/2200UT:

SOLAR ACTIVITY HAS BEEN LOW DURING THIS PERIOD.

IB. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY IS EXPECTED TO BE AT MODERATE TO HIGH LEVELS  
DURING THE FORECAST PERIOD.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED. THE FIELD IS FORECAST  
TO BE ACTIVE DURING THE FORECAST PERIOD.

III. EVENT PROBABILITIES: 01-03 MAR

CLASS M 95/95/95

CLASS X 55/55/55

PROTON 35/40/45

PCAF YELLOW

IV. OTTAWA 10.7 FLUX

OBSERVED 28 FEB 232

PREDICTED 01-03 MAR 230/230/228

90 DAY MEAN 28 FEB 202

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 27 FEB 20/22

ESTIMATED AFR/AP 28 FEB 11/12

PREDICTED AFR/AP 01-03 MAR 25/35 25/25 20/18

SOLTERWARN

BT