

HFUS 1 BOU 311300  
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 090A  
JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.  
ISSUED 1300Z 31 MAR 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 30/1200Z TO 31/1200Z: SOLAR ACTIVITY HAS BEEN MODERATE FOR THE PAST 24 HOURS. REGION 3659(N12W34) HAS PRODUCED FIVE M-CLASS X-RAY FLARES SINCE 30/1200 UT. THE LARGEST WAS AN M4/SB AT 31/0837 UT. THIS REGION HAS RETAINED ITS ACTIVE CHARACTERISTICS AND HAS SHOWN SIGNS OF MINOR GROWTH. NO SIGNIFICANT ACTIVITY HAS OCCURRED IN OTHER REGIONS.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN MODERATE FOR THE FORECAST PERIOD DUE PRIMARILY TO THE HISTORY OF REGION 3659. THIS REGION IS STILL CAPABLE OF AN ISOLATED X CLASS FLARE.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN ACTIVE THE PAST 24 HOURS. UNSETTLED TO ACTIVE CONDITIONS ARE EXPECTED TO PERSIST UNTIL LATE 1 APRIL, WHEN A MINOR STORM IS EXPECTED TO RESULT FROM THE X2/3B FLARE WHICH OCCURRED ON 30 MARCH. ACTIVE CONDITIONS SHOULD AGAIN RETURN ON 3 APRIL.

III. EVENT PROBABILITIES 01 APR-03 APR

CLASS M 80/80/80

CLASS X 20/20/20

PROTON 15/15/15

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 30 MAR 198

ESTIMATED 31 MAR 195

PREDICTED 01 APR-03 APR 192/188/181

90 DAY MEAN 30 MAR 202

V. GEOMAGNETIC A INDICES

OBSERVED AFR 29 MAR 013 AP 30 MAR 016

ESTIMATED AFR 30 MAR 014 AFR/AP 31 MAR 015/020

PREDICTED AFR/AP 01 APR-03 APR 014/018-030/035-015/020

SOLTERWARN

BT

HXUS BOU 311300

PREDM 08001 08002 08003

PREDX 02001 02002 02003

PREDP 01501 01502 01503

PCAF1 00201

TENCM 19201 18802 13103

AFRED 01401 03002 01503

AFAPF 01801 03502 02003

KKK 33333 32333 35543

BT

KBOU

HFUS 3 BOU 312200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 090B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 31 MAR 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 31/1200Z TO 31/2100Z: SOLAR ACTIVITY WAS NEAR THE MODERATE LEVEL DURING THE PAST NINE HOURS WITH FREQUENT SUBFLARES REPORTED FROM A VARIETY OF REGIONS. REGION 3659 (N11W39) WAS THE MOST ACTIVE ON THE DISK, PRODUCING FREQUENT SUBFLARE C-CLASS/X-RAY EVENTS DURING THE PERIOD. THE LARGEST OF THESE WAS A C6/SN AT 1454Z MAXIMUM. THIS REGION REMAINS COMPLEX WITH A BETA/GAMMA DELTA MAGNETIC CONFIGURATION. IT NO LONGER SHOWS EVIDENCE OF DECAY. REGIONS 3568 (S12W47), 3662 (S21W06) AND 3667 (N17E05) HAVE ALSO PRODUCED SMALL FLARES. NEW REGION 3670 (S18E58) WAS NUMBERED TODAY. IT IS A SMALL B-TYPE GROUP. NUMBERED TODAY. IT IS A SMALL B-TYPE GROUP.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE MODERATE THROUGH THE FORECAST PERIOD.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD WAS GENERALLY UNSETTLED WITH BRIEF PERIODS AT ACTIVE LEVELS. THE FIELD IS EXPECTED TO REMAIN ACTIVE THE NEXT 20 HOURS WITH MINOR STORM CONDITIONS COMMENCING NEAR THE END OF THE UT DAY TOMORROW IN RESPONSE TO THE X2/3B FLARE ON THE 30TH.

III. EVENT PROBABILITIES 01 APR-03 APR

CLASS M 80/80/70

CLASS X 20/20/10

PROTON 15/15/05

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 31 MAR 185

PREDICTED 01 APR-03 APR 180/175/165

90 DAY MEAN 31 MAR 202

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 30 MAR 014/016

ESTIMATED AFR/AP 31 MAR 017/020

PREDICTED AFR/AP 01 APR-03 APR 018/018-030/035-017/020

SOLTERWARN

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JUL