

HFXUS 1 BOU 031300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 093A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 03 APR 1982.

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 02/1200Z TO 03/1200Z: SOLAR ACTIVITY HAS BEEN MODERATE THIS PERIOD. AN M1/0B FLARE IN REGION 3658(S12W82) OCCURRED AT 03/0800Z. OTHER EVENTS WERE SMALL C CLASS XRAYS, SOME WITH ASSOCIATED SUBFLARES. REGIONS 3659(N11W74), 3662(S22W42), AND 3667(N18W29) CONTRIBUTED TO THIS LOW LEVEL ACTIVITY. REGIONS 3667, AND 3670(S18E25) HAVE GROWN RAPIDLY BUT REMAIN RELATIVELY SMALL. REGION 3659 IS DECAYING RAPIDLY AND APPEARS STILL CAPABLE OF MAJOR ACTIVITY. A NEW REGION 3674(S09E07) IS GROWING RAPIDLY WITH AFS OBSERVED, AND HAS FLARED TO C3/0B AT 03/0638Z. THE REMAINING REGIONS APPEAR IN DECLINE AND UNLIKELY TO CONTRIBUTE TO MAJOR ACTIVITY.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD REMAIN MOSTLY MODERATE WITH M CLASS FLARES POSSIBLE FROM REGION 3659 AND PERHAPS FROM THE DEVELOPING REGIONS IF THEIR CURRENT RATE OF DEVELOPMENT CONTINUES. RETURNING REGIONS ARE NOT EXPECTED TO MAKE A SIGNIFICANT CONTRIBUTION TO ACTIVITY IN THE PERIOD.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD REACHED MAJOR STORM LEVELS EARLY ON 3 APRIL DUE TO THE RECENT SOLAR FLARE ACTIVITY. THE FIELD IS EXPECTED TO SUBSIDE TO ACTIVE LEVELS WITHIN A FEW MORE HOURS. ADDITIONAL ACTIVITY MAY OCCUR ON 5 APRIL REACHING NEAR MINOR STORM LEVELS DUE TO THE M6 FLARE EARLY ON 2 APRIL.

III. EVENT PROBABILITIES 04 APR-06 APR

CLASS M 70/60/60

CLASS X 10/05/05

PROTON 05/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 02 APR 174

ESTIMATED 03 APR 170

PREDICTED 04 APR-06 APR 168/172/176

90 DAY MEAN 02 APR 201

V. GEOMAGNETIC A INDICES

OBSERVED AFR 01 APR 014 AP 02 APR 039

ESTIMATED AFR 02 APR 028 AFR/AP 03 APR 035/040

PREDICTED AFR/AP 04 APR-06 APR 015/015-019/020-012/012

SOLTERWARN

BT

HXUS BOU 031300

PREDM 07004 06005 06006

PREDX 01004 00505 00506

PREDP 00504 00105 00106

PCAFT 00104

TENCM 16804 17205 17606

AFRED 01504 01905 01206

AFAPP 01504 02005 01206

KKK 43343 32233 34433

BT

HXUS 3 EOU 032200  
FROM SPAKF ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 093B  
JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.  
ISSUED 2200Z 03 APR 1982  
IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM  
03/1200Z TO 03/2100Z: SOLAR ACTIVITY REMAINS MODERATE. SIX  
C-CLASS XRAY EVENTS WERE REPORTED BUT NONE WERE OBSERVED  
OPTICALLY BECAUSE OF POOR WEATHER CONDITIONS AT MOST STATIONS.  
THE TWO LARGEST EVENTS WERE A C8 AT 03/1459Z WITH AN ASSOCIATED  
MINOR RADIO BURST OF 320 F.U. AT 245 MHZ AND A C8 AT 03/1903Z  
WITH NO ASSOCIATED RADIO BURST. REGION 3659 (N18W78) WAS ACTIVE  
EARLIER IN THE DAY AND IS PROBABLY THE SOURCE OF SOME OF THE  
ACTIVITY SINCE 1200Z. RAPIDLY GROWING REGION 3674 (S09E02) IS  
ALSO A LIKELY SOURCE OF SOME FLARES, ALTHOUGH THE SPOT GROUP IS  
STILL ONLY CLASS/AREA D/70. TWO NEW REGIONS WERE NUMBERED, ~~3676~~  
(S15E69) WHICH ROTATED ONTO THE DISK BUT APPEARS STABLE AND  
~~3676~~ (N10W29) WHICH DEVELOPED ON THE DISK AND IS STILL VERY  
SMALL.

IB. SOLAR ACTIVITY FORECAST: MODERATE SOLAR ACTIVITY IS STILL  
POSSIBLE FROM REGION 3659 AS IT ROTATES BEYOND THE LIMB.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS  
BEEN AT MINOR STORM LEVELS SINCE 01/2100Z AS THE RESULT OF  
M-CLASS FLARE ACTIVITY IN REGION 3659. THE GEOMAGNETIC FIELD IS  
EXPECTED TO BE ACTIVE THROUGH 5 APRIL AND THEN RETURN TO  
UNSETTLED LEVELS.

III. EVFTN PROBABILITIES 04 APR-06 APR

CLASS M 70/60/60

CLASS X 10/25/05

PROTON 05/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 03 APR 170

PREDICTED 04 APR-06 APR 168/172/176

90 DAY MEAN 03 APR 201

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 02 APR 036/039

ESTIMATED AFR/AP 03 APR 032/040

PREDICTED AFR/AP 04 APR-06 APR 015/015-019/020-012/012

SOLTERWARN

BT

HXUS EOU 032200  
PREDM 07004 06005 06006  
PREDX 01004 00505 00506  
PREDP 00504 00105 00106  
PCAFT 00104  
TENCM 16804 17205 17606  
AFRED 01504 01905 01206  
AFAPF 01504 02005 01206  
BT