

HFUS 1 BOU 091300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 009A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 09 JAN 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
08/1200Z TO 09/1200Z: SOLAR ACTIVITY HAS BEEN MODERATE. REGION
3537 (N09W69) PRODUCED TWO CLASS M EVENTS, AN M3/2B AT 08/1432Z
AND AN M2/SN AT 09/0740Z. ANOTHER M3 EVENT AT 09/1128Z WAS NOT
OBSERVED OPTICALLY BUT PROBABLY WAS ALSO FROM REGION 3537. ALL
THREE FLARES WERE ACCOMPANIED BY WEAK RADIO BURSTS AND
SHORTWAVE FADING. THIS REGION CONTINUES TO GROW IN AREA AND
COMPLEXITY. IT IS TOO NEAR THE LIMB FOR A COMPLETE ANALYSIS BUT
APPEARS TO CONTAIN A MAGNETIC DELTA CONFIGURATION AND ARCH
FILAMENT SYSTEM. REGION 3545 (N16W20), A SMALL BUT GROWING
REGION, PRODUCED A C5/1N FLARE AT 09/0537Z. SMALL NEW REGION
3546 (N07W42) WAS NUMBERED TODAY. ALL OTHER REGIONS ARE SMALL
AND INACTIVE.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO
REMAIN AT A MODERATE LEVEL WITH CLASS M XRAY EVENTS POSSIBLE
FROM REGION 3537 AS IT ROTATES BEYOND WEST LIMB IN THE NEXT TWO
DAYS.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS
BEEN QUIET. QUIET TO UNSETTLED CONDITIONS ARE EXPECTED THE NEXT
THREE DAYS.

III. EVENT PROBABILITIES 10 JAN-12 JAN

CLASS M 50/35/15

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 08 JAN 162

ESTIMATED 09 JAN 155

PREDICTED 10 JAN-12 JAN 150/142/136

90 DAY MEAN 08 JAN 212

V. GEOMAGNETIC A INDICES

OBSERVED AFR 07 JAN 011 AP 08 JAN 007

ESTIMATED AFR 08 JAN 006 AFR/AP 09 JAN 005/010

PREDICTED AFR/AP 10 JAN-12 JAN 010/010-010/010-008/009

SOLTERWARN

BT

HXUS BOU 091300

PREDM 05010 03511 01512

PREDX 00110 00111 00112

PREDP 00110 00111 00112

PCAFT 00110

TENCM 15010 14211 13612

AFRED 01010 01011 00812

AFAPF 01010 01011 00912

KKK 22233 22222 33322

BT

HFUS 3 BOU 092200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 009B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200Z 09 JAN 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
09/1200Z TO 09/2100Z: SOLAR ACTIVITY CONTINUED AT MODERATE
LEVELS THIS PERIOD WITH ANOTHER M1 CLASS EVENT AT 1413Z.
(SOURCE REGION UNKNOWN.) AS REGION 3537 (N09W78) APPROACHES
THE WEST LIMB, IT REMAINS SUFFICIENTLY COMPLEX TO PRODUCE
MODERATE FLARE ACTIVITY. THE REMAINDER OF THE SPOTTED REGIONS
ARE SIMPLE. NO NEW REGIONS WERE NUMBERED THIS PERIOD.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY WILL DECREASE FROM
MODERATE TO LOW LEVELS AS REGION 3577 ROTATES BEHIND THE WEST
LIMB. THE 10.7 CM FLUX, WHICH INCREASED TODAY, IS EXPECTED TO
CONTINUE ITS DECLINE THROUGH THE NEXT FEW DAYS.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS
BEEN QUIET. QUIET TO SLIGHTLY UNSETTLED LEVELS ARE FORECAST
FOR THE NEXT 72 HOURS.

III. EVENT PROBABILITIES 10 JAN-12 JAN

CLASS M 50/35/15

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 09 JAN 170

PREDICTED 10 JAN-12 JAN 155/145/135

90 DAY MEAN 09 JAN 211

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 08 JAN 007/007

ESTIMATED AFR/AP 09 JAN 004/005

PREDICTED AFR/AP 10 JAN-12 JAN 010/010-010/010-008/009

SOLTERWARN

BT

HXUS BOU 092200

PREDM 05010 03511 01512

PREDX 00110 00111 00112

PREDP 00110 00111 00112

PCAFT 00110

TENCM 15510 14511 13512

AFRED 01010 01011 00812

AFAPF 01010 01011 00912

BT