

HFUS 1 BOU 051300
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 005A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 05 JAN 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
04/1200Z TO 05/1200Z: SOLAR ACTIVITY REMAINS LOW. NO ACTIVITY
HAS BEEN OBSERVED SINCE 0000UT ON 5 JAN. REGION 3537 (N10W14)
ACCOUNTED FOR MOST OF THE FLARE ACTIVITY RECORDED ON THE 4TH.
THIS REGION CONTINUES TO GROW SLOWLY, BUT REMAINS MAGNETICALLY
SIMPLE. ALL OTHER DISK REGIONS HAVE EITHER REMAINED STABLE, OR
DECLINED. THE EAST LIMB HAS BEEN QUIET DURING THE PERIOD,
INDICATING NO HOPE FOR ANY INCREASE IN THE CURRENT LOW
ACTIVITY.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO
REMAIN LOW. REGION 3537 IS THE DOMINANT DISK STRUCTURE, BUT
APPEARS CAPABLE OF ONLY C-CLASS SUBFLARES.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS
BEEN UNSETTLED DURING THE PAST 24 HOURS. THESE CONDITIONS
SHOULD PERSIST THROUGH THE NEXT 48 TO 60 HOURS, FOLLOWED BY A
SLIGHT INCREASE IN ACTIVITY WHEN THE EFFECTS OF A FAVORABLY
LOCATED CORONAL HOLE ARE FORECAST TO ARRIVE

III. EVENT PROBABILITIES 06 JAN-08 JAN

CLASS M 15/15/15

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 04 JAN 176

ESTIMATED 05 JAN 170

PREDICTED 06 JAN-08 JAN 168/165/160

90 DAY MEAN 04 JAN 213

V. GEOMAGNETIC A INDICES

OBSERVED AFR 03 JAN 016 AP 04 JAN 010

ESTIMATED AFR 04 JAN 008 AFR/AP 05 JAN 008/008

PREDICTED AFR/AP 06 JAN-08 JAN 008/012-008/010-015/012

SOLTERWARN

BT

HXUS BOU 051300

PREDM 01506 01507 01508

PREDX 00106 00107 00108

PREDP 00106 00107 00108

PCAFT 00106

TENCM 16806 16507 16008

AFRED 00806 00807 01508

AFAPF 01206 01007 01208

KKK 22232 22222 23222

BT

HFUS 3 BQU 052200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 005B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 05 JANUARY 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM

05/1200Z TO 05/2100Z:

SOLAR ACTIVITY CONTINUES VERY LOW. ONLY THREE MINOR SUB-FLARES HAVE BEEN RECORDED IN THE PAST NINE HOURS. ALL SPOTTED REGIONS ARE SMALL AND SIMPLY STRUCTURED WITH THE EXCEPTION OF REGION 3537 (N10W20). THIS REGION HAS DOUBLED IN AREA SINCE YESTERDAY AND HAS BECOME MORE COMPLEX.

IB. SOLAR ACTIVITY FORECAST:

FURTHER GROWTH OF REGION 3537 MAY PRODUCE MODERATE X-RAY FLARES. NO OTHER REGION APPEARS CAPABLE OF SIGNIFICANT ACTIVITY. NO SIGNIFICANT REGIONS ARE EXPECTED TO RETURN TO EAST LIMB THIS PERIOD.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS REMAINED QUIET. SIMILAR CONDITIONS ARE EXPECTED FOR ANOTHER 48 HOURS. ALIGNMENT WITH AN ACTIVE CORONAL AREA IS EXPECTED ON THE THIRD DAY.

III. EVENT PROBABILITIES: 06-08 JANUARY

CLASS M 5/25/25

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 05 JAN 171

PREDICTED 06-08 JAN 168/165/160

90 DAY MEAN 05 JAN 213

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 04 JAN 09/10

ESTIMATED AFR/AP 05 JAN 06/07

PREDICTED AFR/AP 06-08 JAN 08/12 08/10 15/12

SOLTERWARN

BT