

HFUS 1 BOU 071300
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 007A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 1300Z 07 JAN 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
06/1200Z TO 07/1200Z: SOLAR ACTIVITY REMAINS LOW. ACTIVITY
DURING THE PAST 24 HOURS HAS CONSISTED OF LOW LEVEL C-CLASS
SUBFLARES WITH REGION 3537 (N10W42) PRODUCING THE MAJORITY OF
THESE. WHILE GROWTH IN THIS REGION HAS SLOWED DURING THE PAST
FIVE HOURS, ITS MAGNETIC COMPLEXITY IS POSSIBLY INCREASING,
WITH INDICATIONS OF A WEAK DELTA DEVELOPING IN THE TRAILER
PORTION OF THE REGION. THE ACTIVE NEUTRAL LINE REMAINS A
PRIMARILY NORTH-SOUTH ORIENTED BOUNDARY OF A BIPOLAR GROUP. A
NEW REGION (NUMBERED 3545) AT S16E04 HAS EMERGED EAST OF REGION
3538 (S17W04) AND HAS GROWN SLOWLY. THE REMAINING DISK REGIONS
ARE EITHER STABLE OR DECLINING.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO
REMAIN LOW. AN ISOLATED MODERATE FLARE IS POSSIBLE FROM REGION
3537.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS
BEEN UNSETTLED DURING THE PAST 24 HOURS. UNSETTLED CONDITIONS
SHOULD CONTINUE UNTIL EARLY ON THE 8TH, WHEN ACTIVE LEVELS ARE
FORECAST AS A RESULT OF THE EARTH'S ALIGNMENT WITH A DEVELOPING
CORONAL HOLE NOW LOCATED IN THE SOUTHWEST QUADRANT OF THE SUN.

III. EVENT PROBABILITIES 08 JAN-10 JAN

CLASS M 25/25/25

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 06 JAN 173

ESTIMATED 07 JAN 169

PREDICTED 08 JAN-10 JAN 165/160/156

90 DAY MEAN 06 JAN 212

V. GEOMAGNETIC A INDICES

OBSERVED AFR 05 JAN 004 AP 06 JAN 008

ESTIMATED AFR 06 JAN 010 AFR/AP 07 JAN 010/010

PREDICTED AFR/AP 08 JAN-10 JAN 015/012-012/010-010/010

SOLTERWARN

BT

HXUS BOU 071300

PREDM 02508 02509 02510

PREDX 00108 00109 00110

PREDP 00108 00109 00110

PCAF 00108

TENCM 16508 16009 15610

AFRED 01508 01209 01010

AFAPF 01208 01009 01010

KKK 32243 32233 33332

BT

HFUS 3 BOU 072200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 007B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200Z 07 JAN 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
07/1200Z TO 07/2100Z: SOLAR ACTIVITY CONTINUES LOW WITH
OCCASIONAL SUBFLARES PRIMARILY FROM REGION 3537 (N09W48). THIS
CLASS D SPOT GROUP IS NOW DECAYING SLIGHTLY AND THE REGION NO
LONGER HAS A DELTA CONFIGURATION. MINOR GROWTH IN REGION 3541
(N08W03) AND NEW REGION 3545 (S16W02) HAVE CONTRIBUTED TO THE
SLIGHT INCREASE IN RADIO FLUX. THE LARGEST XRAY EVENT IN THE
PAST FOUR DAYS (C6) OCCURRED AT 1941Z (MAX) FROM REGION 3537.

IB. SOLAR ACTIVITY FORECAST: ACTIVITY IS EXPECTED TO CONTINUE
LOW WITH A POSSIBILITY OF AN ISOLATED CLASS M EVENT FROM REGION
3537.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS
BEEN UNSETTLED FOR THE PAST NINE HOURS. SLIGHTLY ACTIVE
CONDITIONS ARE EXPECTED TO BEGIN DURING THE NEXT 12 HOURS AS A
CONSEQUENCE OF SUN EARTH ALIGNMENT WITH A DEVELOPING CORONAL
HOLE.

III. EVENT PROBABILITIES 08 JAN-10 JAN

CLASS M	25/25/25
CLASS X	01/01/01
PROTON	01/01/01
PCAF	GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED	07 JAN	178
PREDICTED	08 JAN-10 JAN	172/166/160
90 DAY MEAN	07 JAN	212

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP	06 JAN	011/008
ESTIMATED AFR/AP	07 JAN	010/010
PREDICTED AFR/AP	08 JAN-10 JAN	015/012-012/010-010/010

SOLTERWARN
BT