

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 UNSETLED DURING THE PAST 24 HOURS. UNSETLED 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

PCAFAT 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 UNSETLED 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