

HFUS 1 BOU 061300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 006A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 06 JAN 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 05/1200Z TO 06/1200Z: SOLAR ACTIVITY REMAINS LOW, HOWEVER, SEVEN SUBFLARES HAVE BEEN OBSERVED IN THE PAST 12 HOURS COMPARED TO THREE FOR THE ENTIRE 24 HOUR PERIOD YESTERDAY. FOUR OF THESE FLARES HAVE OCCURRED IN REGION 3537 (N10W27). THIS REGION HAS GROWN RAPIDLY DURING THE PAST 24 HOURS, BUT REMAINS A BASIC BIPOLAR GROUP WITH A NORTH-SOUTH NEUTRAL LINE. RECENT REPORTS INDICATE THIS REGION IS POSSIBLY STABILIZING. A SMALL NEW REGION (NUMBERED 3544) HAS APPEARED AT THE SE LIMB (S17E82). A SUBFAINT FLARE WAS OBSERVED HERE AT 06/0740Z FROM THE SMALL A-TYPE SPOT GROUP. THE REMAINING DISK REGIONS HAVE SHOWN LITTLE CHANGE.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW. REGION 3537 COULD PRODUCE AN ISOLATED M-CLASS FLARE IF GROWTH CONTINUES, BUT THE PROBABILITY FOR THE TOTAL DISK IS SMALL.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD WAS QUIET THROUGH THE FIRST TWELVE HOURS OF THE PERIOD, BUT BECAME UNSETTLED DURING THE 06-09Z TIME PERIOD. UNSETTLED CONDITIONS ARE EXPECTED UNTIL EARLY ON THE 8TH, WHEN SLIGHTLY ACTIVE LEVELS ARE FORECAST.

III. EVENT PROBABILITIES 07 JAN-09 JAN

CLASS M 25/25/25

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 05 JAN 171

ESTIMATED 06 JAN 170

PREDICTED 07 JAN-09 JAN 166/164/162

90 DAY MEAN 05 JAN 213

V. GEOMAGNETIC A INDICES

OBSERVED AFR 04 JAN 009 AP 05 JAN 005

ESTIMATED AFR 05 JAN 005 AFR/AP 06 JAN 008/012

PREDICTED AFR/AP 07 JAN-09 JAN 008/010-015/012-012/010

SOLTERWARN

BT

HXUS BOU 061300

PREDM 02507 02508 02509

PREDX 00107 00108 00109

PREDP 00107 00108 00109

PCAFT 00107

TENCM 16607 16408 16209

AFRED 00807 01508 01209

AFAPF 01007 01208 01009

KKK 32232 22222 24332

BT

HFUS 3 BOU 062200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 006B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200Z 06 JANUARY 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
06/1200Z TO 06/2100Z:

SOLAR ACTIVITY CONTINUES LOW. ACTIVITY HAS BEEN LIMITED TO
SUBFLARES NO LARGER THAN C3 BUT WITH AN INCREASING RATE OF
OCCURRENCE. THERE HAVE BEEN NO OPTICAL OBSERVATORIES OPERA-
TING FOR THE PAST NINE HOURS, SO WE CAN ONLY ASSUME THAT THE
SOURCE OF INCREASING ACTIVITY IS REGION 3537 (N10W35). THIS
REGION WAS GROWING AT LAST REPORT. A SMALL REGION (3544)
HAS APPEARED AT SE LIMB. RADIO FLUX HAS INCREASED DUE TO
THE BRIGHTENING OF REGION 3537.

IB. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW WITH INTERMITTENT
MODERATE ACTIVITY FROM REGION 3537.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED. ACTIVE CONDITIONS
ARE EXPECTED 09 JANUARY DUE TO AN EVOLVING CORONAL AREA ALIGN-
ING WITH THE EARTH.

III. EVENT PROBABILITIES: 07-09 JANUARY

CLASS M 25/25/25

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 06 JAN 173

PREDICTED 07-09 JAN 176/170/166

90 DAY MEAN 06 JAN 212

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 05 JAN 04/05

ESTIMATED AFR/AP 06 JAN 10/08

PREDICTED AFR/AP 07-09 JAN 08/10 15/12 12/10

SOLTERWARN

BT