

HFUS 1 BOU 111300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 101A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 1300Z 11 APR 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
10/1200Z TO 11/1200Z: SOLAR ACTIVITY HAS CONTINUED LOW DURING
THE PAST 24 HOURS. SEVERAL SMALL C-CLASS EVENTS HAVE OCCURRED
THIS PERIOD WITH REGION 3688 (N16E12) PRODUCING THE LARGEST
EVENT, A C3/SN AT 10/2350UT. REGIONS 3680 (S04E12) AND 3684
(S26E32) HAVE GIVEN THE BULK OF THE EVENTS WITH SEVERAL SB AND
1B OPTICAL REPORTS WITH ONLY MINOR X-RAY OBSERVED. REGION 3684
CONTINUES MAGNETICALLY COMPLEX BUT MAY NO LONGER CONTAIN A DELTA
AS THE CENTRAL SPOTS HAVE LOST THEIR PENUMBRA. REGION 3687
(S10E54) CONTINUES TO EXHIBIT SOME MAGNETIC COMPLEXITY AND IS
OF REVERSE POLARITY, HOWEVER IS HAS BEEN GENERALLY STABLE
DURING THIS PERIOD. REGIONS 3688 AND 3679 (N11E16) HAVE SHOWN
SOME INTERACTION THIS PERIOD.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE
LOW DURING THE FORECAST PERIOD. WHILE REGIONS 3684, 3680 AND
THE COMBINATION OF 3688 AND 3679 HAVE THE BEST CHANCE OF
M-CLASS EVENTS ONLY AN ISOLATED M-EVENT IS TO BE EXPECTED AS
THE REGIONS ARE SMALL AND GENERALLY STABLE.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS
BEEN AT MINOR STORM LEVELS WITH SHORT PERIODS AT MAJOR LEVELS
DURING THE PAST 24 HOURS. THE FIELD HAS BECOME SOMEWHAT MORE
STABLE DURING THE PAST 2 HOURS THIS TREND IS EXPECTED TO
CONTINUE FOR THE REST OF THE FORECAST PERIOD. A SMALL CORONAL
HOLE LOCATED NEAR CENTRAL MERIDIAN MAY AGAIN PRODUCE MINOR
GEOMAGNETIC ACTIVITY AT THE END OF THE FORECAST PERIOD.

III. EVENT PROBABILITIES 12 APR-14 APR

CLASS M 40/40/40

CLASS X 01/01/01

PROTON 01/01 01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 10 APR 176

ESTIMATED 11 APR 175

PREDICTED 12 APR-14 APR 179/183/186

90 DAY MEAN 10 APR 201

V. GEOMAGNETIC A INDICES

OBSERVED AFR 09 APR 010 AFR 10 APR 039

ESTIMATED AFR 10 APR 032 AFR/AP 11 APR 034/042

PREDICTED AFR/AP 12 APR-14 APR 015/020-010/012-010/012

SOLTERWARN

BT

HXUS BOU 111300

PREDM 04012 04013 04014

PREDX 00112 00113 00114

PREDP 00112 0011 00114

PCAFT 00112

TENCM 17912 18313 18614

AFRED 01512 01013 01014

AFAPF 02012 01213 01214

KKK 44343 32233 33322

BT

HFUS 3 BOU 112200
 FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
 SDF NUMBER 101B
 JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
 ISSUED 2200Z 11 APR 1982
 IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
 11/1200Z TO 11/2100Z: SOLAR ACTIVITY HAS BEEN LOW WITH FREQUENT
 SUBFLARES. THE LARGEST EVENT WAS C9.9/1B FROM REGION
 3688(N17E06) WHICH HAS GROWN TO A COMPLEX CLASS D SPOT GROUP.
 ITS FOLLOWER SPOT HAS EXTENDED TOWARD THE LARGE SINGLE SPOT
 3679(N12E08) AS PROPER MOTIONS HAVE PLACED THESE TWO SPOTS ON
 THE SAME MERIDIAN. STRONG SUBFLARES HAVE OCCURRED IN REGIONS
 3671(N06W63) AND 3680X. THE DECAYING MAGNETIC FIELDS OF REGION
 3671 RETAIN A COMPLEX FORM. SMALL NEW SPOTS NEAR THE WEST
 BORDER OF THE MAIN SPOT IN REGION 3680 HAVE CREATED A MORE
 COMPLEX MAGNETIC CONFIGURATION. REGION 3687(S10E48) HAS A
 POLARITY ARRANGEMENT REVERSED FROM NORMAL AND HAS ASSOCIATED
 ACTIVE FILAMENTS. REGION 3689 HAS FORMED IN A CHAIN OF
 FILAMENTS AT S12W61.
 IB. SOLAR ACTIVITY FORECAST: SOLAR FLARES ARE EXPECTED TO
 CONTINUE FREQUENTLY FROM FIVE OR SIX ACTIVE REGIONS. THOSE IN
 REGIONS 3680, 3687 AND ESPECIALLY 3688 MAY REACH CLASS M
 INTENSITY.
 II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS
 BEEN AT MINOR STORM LEVEL FOR THE PAST NINE HOURS BUT IS NOW
 GRADUALLY SUBSIDING TO UNSETTLED CONDITIONS. UNSETTLED
 CONDITIONS ARE EXPECTED THROUGHOUT THE NEXT THREE DAYS.
 III. EVENT PROBABILITIES 12 APR-14 APR
 CLASS M 40/40/40
 CLASS X 01/01/01
 PROTON 01/01/01
 PCAF GREEN
 IV. OTTAWA 10.7 CM FLUX
 OBSERVED 11 APR 186
 PREDICTED 12 APR-14 APR 191/196/196
 90 DAY MEAN 11 APR 202
 V. GEOMAGNETIC A INDICES
 OBSERVED AFR/AP 10 APR 030/039
 ESTIMATED AFR/AP 11 APR 034/042
 PREDICTED AFR/AP 12 APR-14 APR 015/020-010/012-010/012
 SOLTERWARN
 BT

HXUS BOU 112200
 PREDM 04012 04013 04014
 PREDX 00112 00113 00114
 PREDP 00112 00113 00114
 PCAFT 00112
 TENCN 19112 19613 19614
 AFRED 01512 01013 01014
 AFAPF 02012 01213 01214
 BT