

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 CENTERAL 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/AP 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

PCAF 00112

TENCM 17912 18313 18614

AFRED 01512 01013 01014

AFAPF 02012 01213 01214

KKK 44343 32233 33322

BT

HFXS 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 3 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
TENCM 19112 19613 19614
AFRED 01512 01013 01014
AFAPF 02012 01213 01214
BT