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HEUS 3 BOU 102200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLORADO
SDF NUMBER 161B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 0200 UT 10 JUNE 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 10/1200 UT
TO 10/2200 UT: SOLAR ACTIVITY HAS BEEN LOW SINCE 10/1200 UT. ONLY
ONE SUFFICIENT FLARE OCCURRED IN THIS TIME PERIOD IN REGION 3157

(N13E17). THIS REGION IS SHOWING SIGNS OF CONTINUING GROWTH AND
INCREASED ACTIVITY. REGION 3152 (N13E17) REMAINS THE DOMINANT
REGION ON THE DISK. ONE NEW REGION WAS NUMBERED TODAY, 3159
(S25E75).

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE LOW.
HOWEVER, AN M-CLASS X-RAY FLARE IS STILL POSSIBLE DUE PRIMARILY
TO SOME RESIDUAL POTENTIAL SUSTAINED IN REGION 3152.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS
BEEN QUIET FOR THE PAST 24 HOURS. UNSETTLED TO ACTIVE CONDITIONS
ARE EXPECTED TO GRADUALLY COMMENCE LATE 11 JUNE IN RESPONSE TO A
CORONAL HOLE AND REMAIN ACTIVE FOR THE FORECAST PERIOD DUE TO A
CONTRIBUTION MADE BY A STRONG SECTOR BOUNDARY.

III. EVENT PROBABILITIES 11 JUNE - 13 JUNE

CLASS M 25/30/35

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 10 JUNE 152

PREDICTED 11-13 JUNE 156/160/163

90-DAY MEAN 10 JUNE 199

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 09 JUNE 07/06

ESTIMATED AFR/AP 10 JUNE 07/08

PREDICTED AFR/AP 11-13 JUNE 15/20 - 15/20 - 15/20

SOLTERWARN

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HEUS 1 RCU 101300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDE NUMBER 161A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1200UT 10 JUNE 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 09/1200UT
TO 10/1200UT:

SOLAR ACTIVITY ROSE INTO THE MODERATE CATEGORY FOR THE FIRST TIME
IN ALMOST TWO WEEKS WITH THE OCCURRENCE OF AN M2/1B IN REGION 3152
(N12E22) AT 10/0628UT MAXIMUM. ASSOCIATED WITH THIS FLARE WAS A
LARGE RADIO BURST OF 30,000 FLUX UNITS AT 245MHZ WITH MODERATE
BURSTS RECORDED THROUGH THE REMAINING 7 FREQUENCIES, IMPORTANCE
1 SHORT WAVE FADES, AND A STRONG TYPE II SWEEP. THIS REGION IS
UNDERGOING SLOW GROWTH, BUT IS NOT OVERLY IMPRESSIVE IN EITHER
SIZE OR MAGNETIC COMPLEXITY DISPLAYING A WEAK BETA-GAMMA CON-
FIGURATION. REGION 3158 (S23E64) HAS PRODUCED SEVERAL C-CLASS
SUBFLARES DURING ITS SLOW GROWTH, WHILE REPORTS OF SURGING AT
S25 EAST LIMB INDICATE YET ANOTHER REGION COMING INTO VIEW.

IB. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY IS EXPECTED TO BE GENERALLY LOW. REGIONS 3152 AND
3158 DO NOT APPEAR CAPABLE OF SUSTAINED MODERATE ACTIVITY, BUT
WILL PROBABLY MANAGE ONLY AN INFREQUENT M-CLASS EVENT.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD WAS QUIET DURING THE PAST 24 HOURS. QUIET
TO UNSETTLED CONDITIONS ARE EXPECTED FOR THE REMAINDER OF THE
UT DAY, FOLLOWED BY NEAR ACTIVE CONDITIONS TOMORROW DUE TO
THE AFFECTS OF A FAVORABLY LOCATED CORONAL HOLE.

III. EVENT PROBABILITIES. 11 JUNE - 13 JUNE

CLASS M 25/30/35

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 09 JUNE 148

ESTIMATED 10 JUNE 153

PREDICTED 11-13 JUNE 156/160/163

90 DAY MEAN 09 JUNE 199

V. GEOMAGNETIC A INDICES

OBSERVED AFR 08 JUNE 19 AP 09 JUNE 06

ESTIMATED AFR 09 JUNE 07 AFR/AP 10 JUNE 07/08

PREDICTED AFR/AP 11-13 JUNE 15/20 15/20 15/20

SOLTERWARN

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