

HFUS 1 BOU 171300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 048A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 17 FEB 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 16/1200Z TO 17/1200Z: SOLAR ACTIVITY HAS BEEN MODERATE. REGIONS CONTRIBUTING TO ACTIVITY THIS PERIOD ARE 3594(S09W98), AN M1, OPTICALLY UNCLASSIFIED, AT 16/1855Z, THREE C CLASS XRAY EVENTS, SUBCLASS OPTICALLY, FROM 3607(N05E04) AT 16/1256Z, 16/1514Z, AND 16/2244Z. AN OPTICALLY UNASSOCIATED M1 EVENT WAS OBSERVED AT 17/0953Z. REGION 3610(N12E48), SHOWING ARCH FILAMENTS AND ACTIVE FILAMENT, FLARED TO C3/0B AT 17/0745 WITH SIGNIFICANT CENTIMETRIC OUTPUT AT OBSERVED FREQUENCIES. THIS REGION CONTINUES TO GROW. REGION 3609(N12E02) IS GROWING, WITH ARCH FILAMENTS AND EMERGING FLUX. REMAINING REGIONS ARE STABLE OR DECLINING.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD BE MODERATE TO LOW. MAJOR FLARES MAY OCCUR IN REGIONS 3607, OR 3610 AND ARE UNLIKELY ELSEWHERE.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN QUIET, TURNING TOWARD MINOR STORM LEVELS AFTER 17/0900Z. IT IS EXPECTED TO REMAIN AT OR NEAR MINOR STORM LEVELS INTO 18 FEB. DUE TO FLARE INDUCTION. CORONAL HOLE INFLUENCE IS EXPECTED TO RECURR DURING 18 FEB. MAINTAINING ACTIVITY AT MINOR STORM LEVELS UNTIL LATE IN THE FORECAST INTERVAL.

III. EVENT PROBABILITIES 18 FEB-20 FEB

CLASS M 70/70/70

CLASS X 05/05/05

PROTON 02/02/02

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 16 FEB 175

ESTIMATED 17 FEB 170

PREDICTED 18 FEB-20 FEB 166/164/164

90 DAY MEAN 16 FEB 200

V. GEOMAGNETIC A INDICES

OBSERVED AFR 15 FEB 017 AP 16 FEB 007

ESTIMATED AFR 16 FEB 009 AFR/AP 17 FEB 022/020

PREDICTED AFR/AP 18 FEB-20 FEB 028/025-028/025-015/015

SOLTERWARN

BT

IXUS BOU 171300

REDM 07018 07019 07020

REDX 00518 00519 00520

REDP 00218 00219 00220

CAFT 00118

ENCM 16618 16419 16420

FRED 02818 02819 01520

FAPF 02518 02519 01520

KK 54455 43334 45543

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NNNNZCVZDZFEZGVZLVZOUU

KBOU

HEUS 3 20U 172200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 048B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200Z 17 FEB 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
17/1200Z TO 17/2100Z: SOLAR ACTIVITY HAS BEEN LOW WITH ONLY
SUBFLARES REPORTED SINCE 1200Z. REGION 3610 (N13E43) HAS
PRODUCED 6 SUBFLARES. THE LARGEST WAS A C4/SB AT 1946Z WITH AN
ASSOCIATED MODERATE RADIO BURST. THIS REGION IS GROWING AND THE
SPOT GROUP IS MAGNETICALLY COMPLEX. LARGE REGION 3607 (N05W00)
HAS NOT BEEN ACTIVE EVEN THOUGH IT REMAINS COMPLEX WITH SOME
POINT BRIGHTENINGS. ALL OTHER REGIONS HAVE BEEN INACTIVE AND NO
NEW REGION WERE NUMBERED TODAY.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE
MODERATE DURING THE FORECAST PERIOD WITH M-CLASS EVENTS
POSSIBLE FROM REGIONS 3607 AND 3610.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE MINOR GEOMAGNETIC
STORM WHICH BEGAN 17/0900Z IS STILL IN PROGRESS. ACTIVE TO
MINOR STORM CONDITIONS ARE EXPECTED FOR THE NEXT 48 HOURS.

III. EVENT PROBABILITIES 18 FEB-23 FEB

CLASS M 70/70/70

CLASS X 05/05/05

PROTON 02/02/02

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 17 FEB 167

PREDICTED 18 FEB-20 FEB 160/163/160

90 DAY MEAN 17 FEB 200

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 16 FEB 005/007

ESTIMATED AFR/AP 17 FEB 022/022

PREDICTED AFR/AP 18 FEB-20 FEB 022/025-028/025-015/015

SOLIERWARN

BT

NNNNZSV

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