

HFUS 1 BOU 161300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 136A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 16 MAY 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM

15/1200Z TO 16/1200Z: SOLAR ACTIVITY HAS REMAINED LOW. THE LARGEST EVENT WAS A C4 X-RAY BURST WITH MAX AT 0722Z. SINCE NO FLARE WAS OBSERVED ON THE DISK AT THIS TIME, THE X-RAYS ARE PRESUMED TO HAVE EMANATED FROM EITHER OF TWO REGIONS ROTATING ON TO THE DISK AT N14 AND N22. THESE MATCH THE RETURN OF OLD REGIONS 3702 AND 3706 RESPECTIVELY. REGION 3733 (S14E11) HAS SHOWN SOME GROWTH AND REGION 3738 (S19E15) EMERGED ON 15 MAY.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW WITH INCREASING PROBABILITY OF UPPER LEVEL CLASS C FLARES AND A CHANCE FOR AN ISOLATED CLASS M EVENT.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED TO SLIGHTLY ACTIVE. THE FIELD IS EXPECTED TO BECOME ACTIVE ON 17 MAY AND REMAIN SO THROUGH 19 MAY. THE EARTH WILL BE UNDER THE INFLUENCE OF A HIGH SPEED STREAM FROM AN EQUATORIAL CORONAL HOLE DURING THIS PERIOD.

III. EVENT PROBABILITIES 17 MAY-19 MAY

CLASS M 15/20/20

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 15 MAY 129

ESTIMATED 16 MAY 134

PREDICTED 17 MAY-19 MAY 140/147/154

90 DAY MEAN 15 MAY 179

V. GEOMAGNETIC A INDICES

OBSERVED AFR 14 MAY 009 AP 15 MAY 015

ESTIMATED AFR 15 MAY 014 AFR/AP 16 MAY 012/015

PREDICTED AFR/AP 17 MAY-19 MAY 025/025-028/020-022/010

SOLTERWARN

BT

HFUS 3 BOU 162200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 136B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200Z 16 MAY 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
16/1200Z TO 16/2100Z: SOLAR ACTIVITY HAS BEEN LOW. FLARE
ACTIVITY HAS BEEN LIMITED TO 2 C1 XRAY FLARES FROM UNKNOWN
REGIONS AND A SN OPTICAL FLARE FROM REGION 3733 (S14E02).
REGION 3733 REMAINS OF INTEREST WITH ITS DAO CLASSIFICATION
THOUGH IT NOW HAS A BETA MAGNETIC CONFIGURATION. NEW REGIONS
NUMBERED ON THE DISK ARE 3739 (N14E74) AND 3740 (N24E76).
REGION 3740 HAS SHOWN RAPID GROWTH SINCE ITS APPEARANCE ON THE
DISK.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD BE LOW FOR
THE FORECAST PERIOD BUT PROBABILITY OF M-CLASS FLARES HAVE
INCREASED WITH THE ROTATION OF 3740 ONTO THE DISK AND THE
CONTINUED RESTRUCTURING OF 3733.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD WAS
UNSETTLED AND SHOULD BE ACTIVE THROUGHOUT THE FORECAST PERIOD.
ACTIVE CONDITIONS ARE EXPECTED TO COMMENCE 17 MAY. III. EVENT
PROBABILITIES 17 MAY-19 MAY

CLASS M 15/20/20

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 16 MAY 136

PREDICTED 17 MAY-19 MAY 140/147/154

90 DAY MEAN 16 MAY 179

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 15 MAY 014/015

ESTIMATED AFR/AP 16 MAY 014/014

PREDICTED AFR/AP 17 MAY-19 MAY 025/025-028/020-022/018

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HXUS BOU 162200

PREDM 01517 02018 02019

PREDX 00117 00118 00119

PREDP 00117 00118 00119

PCAFT 00117

TENCM 14017 14718 15419

AFRED 02517 02818 02219

AFAPF 02517 02018 01819

BT