

HFUS 1 BOU 221300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 142A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 22 MAY 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 21/1200Z TO 22/1200Z: SOLAR ACTIVITY REMAINS MODERATE. REGION 3740 (N20E03) HAS PRODUCED FIVE M EVENTS SINCE 211200Z. THE LARGEST OF THESE WAS AN M3/1B AT 211412Z. SMALL RADIO BURSTS AND SHORTWAVE FADES TO 22 MHZ ACCOMPANIED THIS EVENT. THE OTHER FLARES AND TIMES WERE: M1/1N (211958Z), M1/SB (220031Z), M1 (220247Z) AND M1/SB (220649Z). REGION 3740 RETAINS ITS WELL ORGANIZED, DYNAMIC APPEARANCE. THE DELTA MAGNETIC CONFIGURATION IS STILL PRESENT AND PLAGE FLUCTUATIONS ARE ALMOST CONTINUOUS. A SMALL PLAGE NEAR S15E12 WAS EXTREMELY BRIGHT EARLIER TODAY BUT HAS SINCE RETURNED TO NORMAL INTENSITY. THE OTHER DISK FEATURES ARE QUIET.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD CONTINUE AT A MODERATE LEVEL. REGION 3740 WILL BE RESPONSIBLE.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN QUIET TO UNSETTLED. NO CHANGE IS EXPECTED.

III. EVENT PROBABILITIES 23 MAY-25 MAY

CLASS M 75/75/75

CLASS X 10/10/10

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 21 MAY 165

ESTIMATED 22 MAY 168

PREDICTED 23 MAY-25 MAY 172/172/170

90 DAY MEAN 21 MAY 178

V. GEOMAGNETIC A INDICES

OBSERVED AFR 20 MAY 010 AP 21 MAY 010

ESTIMATED AFR 21 MAY 010 AFR/AP 22 MAY 008/010

PREDICTED AFR/AP 23 MAY-25 MAY 012/015-012/015-010/015

SOLTERWARN

BT

HFXS 3 BOU 222200
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 142B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200Z 22 MAY 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
22/1200Z TO 22/2100Z: SOLAR ACTIVITY HAS BEEN MODERATE WITH AN
M2/1N FLARE IN REGION 3740 (N20W01) AT 1704Z. OVERALL THIS
REGION HAS SHOWN SIGNS OF DECAY SINCE 1200Z WITH A DECLINE IN
THE SPOT GROUP AREA AND LESS FREQUENT PLAGE FLUCUATIONS. NEW
REGION 3749 (S21W24) DEVELOPED ON THE DISK BUT HAS BEEN
INACTIVE. NO OTHER SIGNIFICANT ACTIVITY HAS BEEN REPORTED.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE
MODERATE DURING THE NEXT THREE DAYS WITH M-CLASS FLARES
POSSIBLE IN REGION 3740, EVEN IF IT CONTINUES TO DECAY.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS
BEEN UNSETTLED TO QUIET. UNSETTLED CONDITIONS ARE EXPECTED
DURING THE FORECAST PERIOD.

III. EVENT PROBABILITIES 23 MAY-25 MAY

CLASS M 75/75/75

CLASS X 10/05/05

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 22 MAY 155

PREDICTED 23 MAY-25 MAY 155/155/153

90 DAY MEAN 22 MAY 177

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 21 MAY 009/010

ESTIMATED AFR/AP 22 MAY 005/008

PREDICTED AFR/AP 23 MAY-25 MAY 012/015-012/015-010/015

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HFXS BOU 222200
PREDM 07523 07524 07525
PREDX 01023 00524 00525
PREDP 00123 00124 00125
PCAFT 00123
TENCM 15523 15524 15325
AFRED 01223 01224 01025
AFAPF 01523 01524 01525

DM