

HFUS 1 BOU 211300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 141A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 21 MAY 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 20/1200Z TO 21/1200Z: SOLAR ACTIVITY WAS MODERATE DURING THE PAST 24 HOURS. REGION 3740 (N21E16) PRODUCED AN M4/2B FLARE AT 201410Z THAT WAS VOID OF SIGNIFICANT RADIO EMISSIONS (120 F.U. AT 10 CM) BUT WAS RESPONSIBLE FOR AN IMPORTANCE 2 SHORTWAVE FADE TO 22 MHZ. REGION 3740 IS A BETA GAMMA DELTA GROUP THAT IS SHOWING OCCASIONAL FLUCTUATIONS AND MAY BE STILL GROWING. TWO SMALL SPOT GROUPS HAVE APPEARED ON THE DISK DURING THE PAST 12 HOURS; A GROWING CLASS B (S19E79) AND A CLASS A GROUP (S20E50). THE OTHER DISK REGIONS ARE BASICALLY STABLE.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD BE MODERATE WITH REGION 3740 CONTINUING TO POSE A THREAT FOR ISOLATED M ACTIVITY.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN QUIET TO SLIGHTLY UNSETTLED. QUIET TO UNSETTLED CONDITIONS SHOULD CONTINUE.

III. EVENT PROBABILITIES 22 MAY-24 MAY

CLASS M 60/60/60

CLASS X 05/05/05

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 20 MAY 155

ESTIMATED 21 MAY 157

PREDICTED 22 MAY-24 MAY 159/163/163

90 DAY MEAN 20 MAY 178

V. GEOMAGNETIC A INDICES

OBSERVED AFR 19 MAY 015 AP 20 MAY 010

ESTIMATED AFR 20 MAY 009 AFR/AP 21 MAY 009/013

PREDICTED AFR/AP 22 MAY-24 MAY 012/015-012/015-010/015

SOLTERWARN

BT

HFUS 3 BOU 212200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 141B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 21 MAY 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 21/1200Z TO 21/2100Z: SOLAR ACTIVITY HAS BEEN MODERATE. REGION 3740 (N20E13) HAS PRODUCED TWO M-CLASS EVENTS SINCE 1200Z. THE FIRST WAS AN M3/1B AT 1428Z WITH MAJOR SHORT WAVE FADING AND MINOR RADIO BURSTS, THE SECOND WAS AN M1/1N AT 2009Z WITH MODERATE SWF AND NO RADIO BURST. THE SPOT GROUP IN THIS REGION IS RESTRUCTURING AND GROWING AND STILL CONTAINS A MAGNETICALLY COMPLEX BETA GAMMA DELTA CONFIGURATION. TWO SMALL NEW REGIONS WERE NUMBERED. REGION 3747 (S23E53) DEVELOPED ON THE DISK AND PRODUCED SMALL SUBFLARES AT 1246Z AND 1528Z. REGION 3748 (S21E66) ROTATED ONTO THE DISK AND PRODUCED A SMALL SUBFLARE AT 1811Z. ALL OTHER REGIONS ARE STABLE OR DECLINING.

IB. SOLAR ACTIVITY FORECAST: MODERATE SOLAR ACTIVITY IS EXPECTED FROM REGION 3740 DURING THE NEXT THREE DAYS AS IT CONTINUES TO DEVELOP.

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

III. EVENT PROBABILITIES 22 MAY-24 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

PREDICTED 22 MAY-24 MAY 168/172/172

90 DAY MEAN 21 MAY 178

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 20 MAY 010/010

ESTIMATED AFR/AP 21 MAY 010/010

PREDICTED AFR/AP 22 MAY-24 MAY 012/015-012/015-010/015

SOLTERWARN

BT

HXUS BOU 212200

PREDM 07522 07523 07524

PREDX 01022 01023 01024

PREDP 00122 00123 00124

PCAFT 00122

TENCM 16822 17223 17224

AFRED 01222 01223 01024

AFAPF 01522 01523 01524

BT