

HFUS 1 BOU 271300
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 058A
JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 1300Z 27 FEB 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 26/1200Z TO 27/1200Z: SOLAR ACTIVITY HAS BEEN MODERATE TO LOW. REGION 3625 (N16E35) IS LESS COMPLEX THAN YESTERDAY AND IT PRODUCED ONLY 3 SUBFLARES, THE LARGEST A C5/SB AT 26/2219Z. REGION 3628 (N17E50) IS STILL GROWING RAPIDLY AND THE SPOT GROUP HAS AGAIN DOUBLED IN SIZE, HOWEVER NO FLARE ACTIVITY HAS BEEN REPORTED. A LARGE NEW REGION 3629 (S22E74) HAS PARTIALLY ROTATED ONTO THE DISK. SEVERAL FLARES AND BRIGHT SURGES HAVE BEEN REPORTED FROM THIS REGION INCLUDING A C5/1B FLARE AT 27/0836Z WITH A BRIGHT SURGE ON THE LIMB TO .17 SOLAR RADII AND A MODERATE RADIO BURST ON ALL FREQUENCIES. ALL OTHER REGIONS HAVE BEEN INACTIVE.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO RETURN TO MODERATE LEVELS WITH M-CLASS FLARES LIKELY FROM REGION 3629 AND POSSIBLE FROM REGIONS 3625 AND 3628.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD WAS AT ACTIVE TO MINOR STORM LEVELS ON 26 FEB BUT SINCE 27/0000Z IT HAS DECREASED TO UNSETTLED LEVELS. ACTIVE TO UNSETTLED CONDITIONS ARE EXPECTED FOR THE NEXT 24 HOURS FOLLOWED BY UNSETTLED CONDITIONS ON 01-02 MAR.

III. EVENT PROBABILITIES 28 FEB-02 MAR

CLASS M 70/70/70

CLASS X 05/05/05

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 26 FEB 208

ESTIMATED 27 FEB 220

PREDICTED 28 FEB-02 MAR 226/230/235

90 DAY MEAN 26 FEB 201

V. GEOMAGNETIC A INDICES

OBSERVED AFR 25 FEB 029 AP 26 FEB 033

ESTIMATED AFR 26 FEB 028 AFR/AP 27 FEB 011/020

PREDICTED AFR/AP 28 FEB-02 MAR 015/020-010/015-008/012

SOLTERWARN

BT

HXUS BOU 271300

PREDM 07028 07001 07002

PREDX 00528 00501 00502

PREDP 00128 00101 00102

PCAFT 00128

TENCM 22628 23001 23502

AFRED 01528 01001 00802

AFAPP 02028 01501 01202

KKK 33344 33333 44332

BT

HFUS 3 BOU 272200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 058B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 27 FEB 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 27/1200Z TO 27/2100Z: SOLAR ACTIVITY WAS AT LOW LEVELS DURING THIS PERIOD. THE LARGEST FLARE WAS A C4/SF EVENT FROM REGION 3629 (S20E65) AT 1938Z. THERE ARE CURRENTLY 13 SPOTTED REGIONS ON THE SOLAR DISK, BUT NONE OF THEM ARE VERY COMPLEX. REGION 3629 HAS A LARGE AREA (900 MILLIONTHS) BUT APPEARS TO HAVE A SIMPLE MAGNETIC STRUCTURE.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE AT LOW TO MODERATE LEVELS FOR THE NEXT 3 DAYS.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN UNSETLED FOR THE LAST 24 HOURS. SOLAR WIND SPEEDS, AS INDICATED BY THE ISEE-3 SATELLITE, ARE SLOWLY COMING BACK DOWN TO NORMAL. WE EXPECT UNSETLED CONDITIONS FOR THE NEXT 3 DAYS.

III. EVENT PROBABILITIES 28 FEB-02 MAR

CLASS M 70/70/70

CLASS X 05/05/05

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 27 FEB 226

PREDICTED 28 FEB-02 MAR 235/245/250

90 DAY MEAN 27 FEB 201

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 26 FEB 029/033

ESTIMATED AFR/AP 27 FEB 012/015

PREDICTED AFR/AP 28 FEB-02 MAR 012/015-010/012-008/011

SOLTERWARN

BT

HXUS BOU 272200

PREDM 07028 07001 07002

PREDX 00528 00501 00502

PREDP 00128 00101 00102

PCAF 00128

TENCM 23528 24501 25002

AFRED 01228 01001 00802

AFAPP 01528 01201 01102

BT