

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
AFAPF 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 UNSETTLED FOR THE LAST 24 HOURS. SOLAR WIND SPEEDS, AS INDICATED BY THE ISEE-3 SATELLITE, ARE SLOWLY COMING BACK DOWN TO NORMAL. WE EXPECT UNSETTLED 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

PCAFT 00128

TENCM 23528 24501 25002

AFRED 01228 01001 00802

AFAPF 01528 01201 01102

BT