

HFUS 1 BOU 011300
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 060A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 1300Z 01 MAR 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
28/1200Z TO 01/1200Z: SOLAR ACTIVITY REMAINS LOW WITH NUMEROUS
SMALL FLARES FROM REGIONS 3625 (N15E09), 3628 (N17E24) AND 3629
(S21E47); THE MOST INTERESTING REGIONS ON THE DISK. REGION 3625
PRODUCED A SUBNORMAL FLARE AT 01/0008Z WITH AN ASSOCIATED DARK
SURGE ON THE DISK WHICH WAS VISABLE UNTIL 01/0215Z, FOLLOWED BY
A C3/SB FLARE AT 0240Z AND A C3/SB FLARE AT 0832Z. REGION 3628
PRODUCED A C5/1B FLARE AT 28/2048Z BUT HAS NOT BEEN ACTIVE
SINCE THAT TIME. SMALL NEW REGION 3631 (S14E51) DEVELOPED ON
THE DISK NEAR REGION 3829.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO
REACH MODERATE LEVELS DURING THE FORECAST PERIOD WITH REGIONS
3625, 3628 AND 3629 ALL CAPABLE OF M-CLASS FLARES. IN ADDITION
PREVIOUSLY ACTIVE REGION 3594 WILL BEGIN TO ROTATE ONTO THE
DISK LATE ON 02 MAR.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD
BECAME ACTIVE AT 01/1150Z WITH A SUDDEN COMMENCEMENT OF 59
GAMMAS IN BOULDER. THE SOURCE OF THIS ACTIVITY IS NOT KNOWN.
THE FIELD MAY REMAIN ACTIVE FOR THE NEXT 24 HOURS BEFORE
RETURNING TO UNSETTLED LEVELS.

III. EVENT PROBABILITIES 02 MAR-04 MAR

CLASS M 60/60/60

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 28 FEB 228

ESTIMATED 01 MAR 232

PREDICTED 02 MAR-04 MAR 236/242/245

90 DAY MEAN 28 FEB 200

V. GEOMAGNETIC A INDICES

OBSERVED AFR 27 FEB 010 AP 28 FEB 008

ESTIMATED AFR 28 FEB 007 AFR/AP 01 MAR 016/012

PREDICTED AFR/AP 02 MAR-04 MAR 012/011-008/012-008/012

SOLTERWARN

BT

HXUS BOU 011300

PREDM 06002 06003 06004

PREDX 00102 00103 00104

PREDP 00102 00103 00104

PCAFT 00102

TENCM 23602 24203 24504

AFRED 01202 00803 00804

AFAPF 01102 01203 01204

KKK 22333 22223 33332

BT

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO.

SDF NUMBER 060B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 01 MAR 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 01/1200Z TO 01/2100Z: SOLAR ACTIVITY REMAINED AT LOW LEVELS DURING THIS PERIOD. THERE ARE CURRENTLY SEVERAL LARGE, BUT MAGNETICALLY SIMPLE SPOT GROUPS ON THE DISK. THESE REGIONS ARE KEEPING THE BACKGROUND 10 CM FLUX HIGH, BUT THEY ARE NOT PRODUCING VERY MANY FLARES.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO CONTINUE AT MOSTLY LOW LEVELS. REGIONS 3625 (N14W01), 3628 (N17E15), 3629 (S21E39), AND 3631 (S14E41) EACH OFFER A VERY SLIGHT CHANCE OF AN ISOLATED M-CLASS EVENT DURING THE NEXT 3 DAYS.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN AT MAJOR STORM LEVELS SINCE THE SUDDEN COMMENCEMENT AT 01/1138Z. THE SOURCE OF THIS ACTIVITY REMAINS UNKNOWN. WE FORECAST THE FIELD TO RELAX TO UNSETTLED TO SLIGHTLY ACTIVE LEVELS ON 2 MAR.

III. EVENT PROBABILITIES 02 MAR-04 MAR

CLASS M 60/60/60

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 01 MAR 236

PREDICTED 02 MAR-04 MAR 242/245/250

90 DAY MEAN 01 MAR 200

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 28 FEB 010/008

ESTIMATED AFR/AP 01 MAR 045/030

PREDICTED AFR/AP 02 MAR-04 MAR 015/015-010/012-008/012

SOLTERWARN

BT

HXUS BOU 012200

PREDM 06002 06003 06004

PREDX 00102 00103 00104

PREDP 00102 00103 00104

PCAF 00102

TENCM 24202 24503 25004

AFRED 01502 01003 00804

AFAPF 01502 01203 01204

BT

JAN 162.6