

HFUS 1 BOU 221300
 FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
 SDF NUMBER 053A
 JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
 ISSUED 1300Z 22 FEB 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
 21/1200Z TO 22/1200Z: SOLAR ACTIVITY HAS BEEN LOW DURING THE
 PAST 24 HOURS. THE LARGEST EVENT OBSERVED DURING THE PERIOD WAS
 A C4/SB AT 22/0912Z MAXIMUM FROM REGION 3607 (N04W65). THIS
 FLARE HAD LITTLE ASSOCIATED RADIO EMISSION WITH IT. REGION 3607
 CONTINUES TO SHOW EVIDENCE OF DECAY, AND NOWS APPEARS TO BE A
 MAGNETICALLY SIMPLE BETA OR BETA GAMMA GROUP DOMINATED BY
 MOSTLY POSITIVE POLARITY SPOTS. THE LARGE PENUMBRAL AREA WHICH
 CAUSED THE COMPACT CLASSIFICATION HAS NOW SPLIT IN TWO SEPARATE
 SEGMENTS. NO OTHER REGIONS HAVE BEEN HEARD FROM DURING THE
 PERIOD, BUT REGION 3610 (N14W19) HAS DISPLAYED SOME
 RESTRUCTURING AND MINOR GROWTH. A NEW REGION REPORTED NEAR THE
 SE LIMB AT S14E88 COULD VERY LIKELY BE THE RETURN OF OLD ACTIVE
 REGION 3576. TWO SMALL SPOTS AND STABLE PLAGE INDICATE THIS
 REGION IS PROBABLY NO LONGER A THREAT.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO
 RETURN TO THE MODERATE LEVEL BRIEFLY PRIOR TO REGION 3607'S
 TRANSIT. THIS REGION'S HISTORY INDICATES A MODERATE SIZED FLARE
 IS PROBABLE DURING THE NEXT 24 HOURS. THE LEVEL OF FLARE
 ACTIVITY IS THEN EXPECTED TO DROP DURING THE REMAINING TWO DAYS
 OF THE PERIOD. THE RETURN OF ACTIVE LONGITUDES SHOULD CAUSE A
 SLOW RISE IN THE 10.7CM SOLAR FLUX AFTER WE LOOSE THE
 CONTRIBUTION FROM REGION 3607.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD WAS
 AT LOW ACTIVE LEVELS DURING THE PAST 24 HOURS. A GENERAL
 DECREASING TREND HAS BEEN NOTICED DURING THE PAST 12 HOURS. THE
 FIELD IS EXPECTED TO FINALLY REACH THE UNSETTLED CATEGORY AND
 REMAIN AT THIS LEVEL FOR THE PERIOD.

III. EVENT PROBABILITIES 23 FEB-25 FEB

CLASS M	75/55/40
CLASS X	25/15/05
PROTON	15/05/01
PCAF	YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED	21 FEB	169
ESTIMATED	22 FEB	158
PREDICTED	23 FEB-25 FEB	152/158/163
90 DAY MEAN	21 FEB	200

V. GEOMAGNETIC A INDICES

OBSERVED AFR	20 FEB	017	AP 21 FEB	018
ESTIMATED AFR	21 FEB	018	AFR/AP 22 FEB	015/018
PREDICTED AFR/AP	23 FEB-25 FEB	010/018-010/012-008/012		

SOLTERWARN
 BT

HXUS BOU 221300
 PREDM 07523 05524 04025
 PREDX 02523 01524 00525
 PREDP 01523 00524 00125
 PCAFT 00223
 TENCM 15223 15824 16325
 AFRED 01023 01024 00825
 AFAPF 01823 01224 01225
 KKK 32233 22222 33322
 BT

HFUS 3 BOU 222200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 053B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 22 FEB 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 22/1200Z TO 22/2100Z: SOLAR ACTIVITY HAS BEEN LOW FOR THE PAST NINE HOURS. REGION 3607 (N03W72) HAS DECLINED TO A COMPLEX UNIPOLAR SPOT GROUP AND HAS PRODUCED ONLY OCCASIONAL SUBFLARES. ITS ASSOCIATED PLAGE RETAINS SUFFICIENT COMPLEXITY TO PRODUCE AN ISOLATED CLASS M EVENT. MINOR GROWTH HAS OCCURRED IN REGION 3610 (N13E17) BUT ITS SIZE REMAINS SMALL. A TINY REGION AT S34W13 (REGION 3621) HAS REVERSED POLARITIES AS IF IT IS A MEMBER OF SOLAR CYCLE 22. ADDITIONAL PLAGE AND A SMALL SPOT NEAR SE LIMB MARK THE RETURN OF REGION 3576. RADIO SCAN INDICATES ADDITIONAL ACTIVITY MAY APPEAR AT THE LIMB IN THE NEXT DAY OR TWO.

IB. SOLAR ACTIVITY FORECAST: SOLAR INDICES ARE EXPECTED TO BE LITTLE CHANGED AS WEST LIMB PASSAGE OF REGION 3607 MAY BE COMPENSATED BY RETURNING REGIONS. FLARE ACTIVITY IS EXPECTED TO DROP TO A LOW LEVEL WITH THE LOSS OF REGION 3607.

II. GEOPHYSICAL SUMMARY AND FORECAST: ACTIVE TO MINOR STORM CONDITIONS HAVE DOMINATED THIS PERIOD. CONDITIONS ARE EXPECTED TO CONTINUE ACTIVE FOR ANOTHER 12 HOURS. CONDITIONS ARE EXPECTED TO BE UNSETTLED FOR THE NEXT THREE DAYS.

III. EVENT PROBABILITIES 23 FEB-25 FEB

CLASS M 55/40/30

CLASS X 15/05/05

PROTON 05/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 22 FEB 167

PREDICTED 23 FEB-25 FEB 170/163/168

90 DAY MEAN 22 FEB 201

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 21 FEB 022/018

ESTIMATED AFR/AP 22 FEB 025/030

PREDICTED AFR/AP 23 FEB-25 FEB 015/020-010/015-008/012

SOLTERWARN

BT

HXUS BOU 222200

PREDM 05523 04024 03025

PREDX 01523 00524 00525

PREDP 00523 00124 00125

PCAF 00123

TENCM 17023 16324 16825

AFRED 01523 01024 00825

AFAPF 02023 01524 01225

BT