

HFUS 1 BOU 041300  
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 063A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.  
ISSUED 1300Z 04 MAR 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM  
03/1200Z TO 04/1200Z: SOLAR ACTIVITY HAS BEEN LOW FOR THE PAST  
24 HOURS. REGIONS 3629 (S20E07) AND 3631 (S13E06) FORM THE MOST  
COMPLEX AREA ON THE VISIBLE DISK AND HAVE PROVIDED ALL OF THE  
OBSERVED C-CLASS X-RAY EVENTS. HOWEVER, RECENT OBSERVATORY  
REPORTS INDICATE THAT DECAY IS OCCURRING IN BOTH OF THESE  
REGIONS. MATURE REGION 3625 (N14W35) HAS BEEN QUIET SINCE EARLY  
YESTERDAY, AND REGION 3628 (N16W18) HAS MANAGED ONLY OCCASIONAL  
SUBFAINT FLARES EVEN THOUGH IT HAS SHOWN PENUMBRAL GROWTH AND  
CONTAINS AN ACTIVE DARK FILAMENT. THERE ARE NO REGIONS OF  
CONSEQUENCE EXPECTED TO RETURN DURING THE NEXT THREE DAYS.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE  
LOW. THERE IS A SMALL PROBABILITY FOR ISOLATED SIGNIFICANT  
FLARES FROM REGIONS 3629, 3631, AND 3625.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS  
BEEN MOSTLY UNSETTLED TO QUIET FOR THE PAST 24 HOURS, BUT IT  
REACHED MINOR STORM LEVELS AFTER 1100Z. THE FIELD IS EXPECTED  
TO BE UNSETTLED TO OCCASIONALLY ACTIVE THROUGH TOMORROW,  
DECREASING TO NEAR QUIET LEVELS ON 06 MARCH. HOWEVER, THE FIELD  
SHOULD THEN RESUME ACTIVE TO NEAR-STORM CONDITIONS ON 07 MARCH  
IN RESPONSE TO A LARGE NEGATIVE-POLARITY CORONAL HOLE AT CENTER  
DISK TODAY.

III. EVENT PROBABILITIES 05 MAR-07 MAR

CLASS M 40/30/20

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 03 MAR 234

ESTIMATED 04 MAR 230

PREDICTED 05 MAR-07 MAR 225/220/215

90 DAY MEAN 03 MAR 200

V. GEOMAGNETIC A INDICES

OBSERVED AFR 02 MAR 067 AP 03 MAR 014

ESTIMATED AFR 03 MAR 015 AFR/AP 04 MAR 015/025

PREDICTED AFR/AP 05 MAR-07 MAR 015/015-010/012-025/025

SOLTERWARN

BT

HXUS BOU 041300

PREDM 04005 03006 02007

PREDX 00105 00106 00107

PREDP 00105 00106 00107

PCAFT 00105

TENCM 22505 22006 21507

AFRED 01505 01006 02507

AFAPF 01505 01206 02507

KKK 33443 32233 33332

BT

HFUS 3 BOU 042200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 063B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 04 MAR 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM  
04/1200Z TO 04/2100Z: SOLAR ACTIVITY CONTINUED LOW DURING THIS  
PERIOD. THE LARGEST EVENT WAS A C3, NO OPTICAL, AT 04/1600UT.  
NEW REGION TODAY IS 3633 (S12E75). A SIMPLE H-TYPE. A SURGE  
WITH EXTENT OUT TO .1 RADII WAS OBSERVED NE05 AT 04/1912UT.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO  
CONTINUE AT A LOW LEVEL DURING THE FORECAST PERIOD.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS  
BEEN ACTIVE THIS PERIOD. THE FIELD IS EXPECTED TO BE ACTIVE TO  
UNSETTLED UNTIL 07 MARCH WHEN THE FIELD IS FORECAST TO BE  
ACTIVE WITH SHORT PERIODS AT MINOR STORM LEVEL DUE TO THE  
EFFECTS OF A LARGE CORONAL HOLE.

III. EVENT PROBABILITIES 05 MAR-07 MAR

CLASS M 30/30/20

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 04 MAR 249

PREDICTED 05 MAR-07 MAR 253/250/245

90 DAY MEAN 04 MAR 200

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 03 MAR 015/014

ESTIMATED AFR/AP 04 MAR 013/015

PREDICTED AFR/AP 05 MAR-07 MAR 015/015-010/012-025/025

SOLTERWARN

BT