

HFUS 1 BOU 151300
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 015A
JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 1300Z 15 JAN 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 14/1200Z TO 15/1200Z: SOLAR ACTIVITY HAS BEEN LOW. REGION 4065 (S13E59) WAS THE ONLY ACTIVE REGION, PRODUCING THREE SMALL SUBFLARES. THE SPOT GROUP IS NOW A SMALL C TYPE BUT IT IS NOT GROWING SIGNIFICANTLY. A SMALL NEW REGION 4066 (S23E25) DEVELOPED ON THE DISK AND NEW REGION 4067 (N13E75) HAS ROTATED ONTO THE DISK WITH A C TYPE SPOT GROUP. A BRIGHT SURGE AT S10 EAST LIMB INDICATES YET ANOTHER REGION SHOULD BE VISIBLE LATER TODAY. ALL OTHER REGIONS ARE STABLE AND INACTIVE.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW WITH INCREASING ACTIVITY POSSIBLE BEGINNING 17 JAN WHEN PREVIOUSLY ACTIVE LONGITUDES RETURN TO THE DISK.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN UNSETLED. MINOR STORM LEVELS DECREASING TO ACTIVE CONDITIONS ARE EXPECTED DURING THE FORECAST PERIOD. THIS IS IN RESPONSE TO AN EQUATORIAL CORONAL HOLE WHICH PASSED CENTRAL MERIDIAN ON 12 JAN AND THE EFFECTS OF AN ERUPTIVE FILAMENT ON 13 JAN.

III. EVENT PROBABILITIES 16 JAN-18 JAN

CLASS M 10/20/20

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 14 JAN 142

ESTIMATED 15 JAN 144

PREDICTED 16 JAN-18 JAN 148/152/156

90 DAY MEAN 14 JAN 176

V. GEOMAGNETIC A INDICES

OBSERVED AFR 13 JAN 007 AP 14 JAN 010

ESTIMATED AFR 14 JAN 008 AFR/AP 15 JAN 012/015

PREDICTED AFR/AP 16 JAN-18 JAN 035/035-025/025-015/020

SOLTERWARN

BT

DELETE LINES

HFUS 3 BOU 152200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 015B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200Z 15 JAN 1983.

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
15/1200Z TO 15/2100Z: SOLAR ACTIVITY CONTINUED LOW DURING THIS
PERIOD WITH ONLY MINOR EVENTS BEING RECORDED. TWO NEW REGIONS
WERE NUMBERED 4066 (S23E18) AND 4067 (N16E69). BOTH ARE SIMPLE
GROUPS. CONTINUED SURGE ACTIVITY HAS BEEN OBSERVED ON THE SE
LIMB.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO
CONTINUE LOW UNTIL 17 JAN WHEN OLD ACTIVE LONGITUDES RETURN.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS
BEEN ACTIVE WITH PERIODS AT MINOR STORM LEVEL THIS PERIOD. AT
HIGH LATITUDE THE FIELD HAS BEEN AT MAJOR STORM LEVELS FOR
SHORT PERIODS. THE FIELD IS EXPECTED TO CONTINUE AT OR NEAR MINOR
STORM LEVELS UNTIL 18 JAN WHEN A RETURN TO UNSETTLED LEVELS IS
EXPECTED.

III. EVENT PROBABILITIES 16 JAN-18 JAN

CLASS M 10/20/20

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 15 JAN 146

PREDICTED 16 JAN-18 JAN 148/152/156

90 DAY MEAN 15 JAN 176

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 14 JAN 006/010

ESTIMATED AFR/AP 15 JAN 019/038

PREDICTED AFR/AP 16 JAN-18 JAN 035/035-025/025-015/020

SOLTERWARN

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