

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 UNSETTLED. 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 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

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