

HFUS 1 BOU 271300
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 027A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 1300Z 27 JAN 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
26/1200Z TO 27/1200Z: SOLAR ACTIVITY HAS BEEN MODERATE THIS
PERIOD AS REGION 4075 (S13E72) PRODUCED A M1/1N EVENT, MINOR
RADIO, AT 27/0329UT. REGION 4075 IS REPORTED TO BE A SMALL, 10
MILLIONTHS, C TYPE GROUP. REGIONS 4073 (N05E13) AND 4072
(S07E10) ARE REPORTED TO CONTAIN ARCH FILAMENT SYSTEMS. BOTH
REGIONS HAVE EXHIBITED SIGNIFICANT GROWTH THIS PERIOD. ACTIVE
SURGE REGION AT SE16 INDICATES MORE OLD ACTIVE REGIONS ARE DUE
TO RETURN IN THE NEXT TWO DAYS. THE REST OF THE REGIONS HAVE
BEEN GENERALLY STABLE THIS PERIOD.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE
GENERALLY LOW DURING THIS FORECAST PERIOD. ISOLATED M CLASS
EVENTS MAY OCCUR FROM REGIONS 4075, 4073, 4072 OR OLD
RETURNING REGIONS DUE BACK OVER THE SE LIMB DURING THE NEXT TWO
DAYS.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS
BEEN GENERALLY UNSETTLED THIS PERIOD. DUE TO A LACK OF MAJOR
SOLAR ACTIVITY THE FIELD IS EXPECTED TO CONTINUE AT UNSETTLED
TO QUIET LEVELS DURING THIS FORECAST PERIOD.

III. EVENT PROBABILITIES 28 JAN-30 JAN

CLASS M	10/10/10
CLASS X	01/01/01
PROTON	01/01/01
PCAF	GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED	26 JAN	148
ESTIMATED	27 JAN	151
PREDICTED	28 JAN-30 JAN	156/159/163
90 DAY MEAN	26 JAN	171

V. GEOMAGNETIC A INDICES

OBSERVED AFR	25 JAN	014	AP 26 JAN	013
ESTIMATED AFR	26 JAN	014	AFR/AP 27 JAN	011/015
PREDICTED AFR/AP	28 JAN-30 JAN	008/010-010/010-008/010		

SOLTERWARN

BT

HFUS 3 BOU 272200
FROM SPACE ENVIRONMENT SERVICES CENTER; BOULDER, COLORADO
SDF NUMBER 027B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200Z 27 JAN 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
27/1200Z TO 27/2100Z: SOLAR ACTIVITY HAS BEEN LOW SINCE THE
PRIMARY FORECAST. REGIONS 4072 (S08E03) AND 4073 (N05E06)
CONTINUE TO BE THE LARGEST REGIONS ON THE DISK. EACH HAS HAD AN
ARCH FILAMENT SYSTEM IN IT SOME TIME IN THE PAST EIGHT HOURS.
REGION 4075 (S12E65) HAS BEEN QUIET SINCE IT PRODUCED THE M1
X-RAY FLARE AT 0329Z, ALTHOUGH IT HAS DOUBLED IN AREA. NO NEW
REGIONS HAVE BEEN NUMBERED THIS PERIOD AND THE REMAINING
REGIONS ON THE DISK APPEAR TO BE STABLE.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD CONTINUE
LOW. LITTLE OR NO ACTIVITY IS EXPECTED FROM RETURNING REGIONS.
THE REGIONS ON THE DISK DO NOT SHOW MUCH INHERENT ABILITY TO
PRODUCE MAJOR FLARES.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS
BEEN UNSETTLED AND SHOULD REMAIN SO THROUGHOUT THE FORECAST
PERIOD.

III. EVENT PROBABILITIES 28 JAN-30 JAN

CLASS M 10/10/10

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 27 JAN 138

PREDICTED 28 JAN-30 JAN 142/145/148

90 DAY MEAN 27 JAN 170

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 26 JAN 014/013

ESTIMATED AFR/AP 27 JAN 011/010

PREDICTED AFR/AP 28 JAN-30 JAN 008/010-010/010-008/010

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