

HFUS 1 BOU 291300
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 029A
JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 1300Z 29 JAN 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 28/1200Z TO 29/1200Z: SOLAR ACTIVITY HAS CONTINUED LOW WITH SMALL CLASS C FLARES BEING OBSERVED FROM SEVERAL SOURCE REGIONS. MINOR MAGNETIC COMPLEXITIES EXIST IN REGIONS 4072 (S08W19), 4073 (N05W15), AND 4075 (S13E44). SUNSPOT REPORTS INDICATE SLOW EVOLUTION IN THESE REGIONS. THE ISOLATED POLE NEAR THE LEADER OF REGION 4073 IS INTENSIFYING BUT OVERALL REGION MAGNETIC GRADIENTS ARE NOT HIGH. INTERMITTENT MINOR SURGING HAS BEEN OBSERVED ON THE SOUTHEAST LIMB.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD CONTINUE LOW. FREQUENT SUBFLARES SHOULD CONTINUE FROM REGIONS 4073 AND 4075. THERE IS A SLIGHT POSSIBILITY OF CLASS M FLARE ACTIVITY. SEVERAL SMALL INACTIVE REGIONS SHOULD ROTATE AROUND THE EAST LIMB DURING THE FORECAST PERIOD.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN QUIET TO SLIGHTLY UNSETLED. SEVERAL CORONAL HOLES ARE ON THE VISIBLE DISK, BUT THEIR HIGH SPEED STREAMS ARE NOT EXPECTED TO IMPACT THE EARTH. QUIET TO SLIGHTLY UNSETLED CONDITIONS ARE FORECAST TO CONTINUE FOR THE NEXT THREE DAYS.

III. EVENT PROBABILITIES 30 JAN-01 FEB

CLASS M 10/15/15

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 28 JAN 145

ESTIMATED 29 JAN 152

PREDICTED 30 JAN-01 FEB 159/164/168

90 DAY MEAN 28 JAN 170

V. GEOMAGNETIC A INDICES

OBSERVED AFR 27 JAN 009 AP 28 JAN 012

ESTIMATED AFR 28 JAN 009 AFR/AP 29 JAN 007/010

PREDICTED AFR/AP 30 JAN-01 FEB 008/010-008/010-007/010

SOLTERWARN

BT

HFUS 3 BOU 292200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 029B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200Z 29 JAN 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
29/1200Z TO 29/2100Z: SOLAR ACTIVITY IS LOW. THE VISIBLE DISK
REGIONS ARE SHOWING LITTLE OR NO CHANGE. OCCASIONAL SUBFLARES
CONTINUE TO BE OBSERVED AND AN ERUPTIVE PROMINENCE WAS VISIBLE
AT NW 12 OUT TO .19 RADIUS FROM 1514Z TO 1536Z. THREE NEW
REGIONS WERE NUMBERED TODAY: 4077 (S18E49), 4078 (S11W45) AND
4079 (N09W02).

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO
REMAIN AT A LOW LEVEL.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD WAS
GENERALLY QUIET TO UNSETTLED THEN BECAME DISTURBED SHORTLY
AFTER 1200Z. MINOR STORM CONDITIONS WERE OCCURRING BY 1800Z BUT
A QUIETING TREND HAS BEEN OBSERVED SINCE THEN. MOSTLY UNSETTLED
CONDITIONS ARE EXPECTED FOR THE NEXT 48 TO 72 HOURS.

III. EVENT PROBABILITIES 30 JAN-01 FEB

CLASS M 10/15/15

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 29 JAN 154

PREDICTED 30 JAN-01 FEB 159/164/168

90 DAY MEAN 29 JAN 170

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 28 JAN 009/012

ESTIMATED AFR/AP 29 JAN 017/020

PREDICTED AFR/AP 30 JAN-01 FEB 008/015-008/010-007/010

SOLTERWARN

BT