

TSRIS

HFUS 1 POU 241300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 297A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 1300Z 24 OCT 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
23/1200Z TO 24/1200Z:

SOLAR ACTIVITY HAS BEEN LOW DURING THE PAST 24 HOURS. THE
LARGEST EVENT HAS BEEN A C2/1M AT 24/0549UT FROM REGION 3406.
REGION 3403 (S11W75) CONTINUES TO DECAY AND IS NOW A D-TYPE
GROUP WITH A BETA MAGNETIC CONFIGURATION. REGION 3406 (S08W52)
IS GENERALLY STABLE WITH ONLY MINOR CHANGES BEING REPORTED. OLD
REGION 3375 HAS RETURNED AS A LARGE H-TYPE GROUP, WITH DULL
PLACE, AND HAS BEEN NUMBERED 3324 (N14E83). THE REST OF THE
REGIONS ARE GENERALLY SIMPLE STABLE GROUPS.

IB. SOLAR ACTIVITY FORECAST:

WITH REGIONS 3403 AND 3406 EITHER STABLE OR EXHIBITING DECAY,
THE SOLAR ACTIVITY IS EXPECTED TO CONTINUE AT A LOW LEVEL. IF
RAPID CHANGE OCCURS IN EITHER REGION THEN AN ISOLATED M-CLASS
EVENT IS EXPECTED.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS BEEN QUIET TO SLIGHTLY UNSETTLED THIS
PERIOD. THE FIELD IS EXPECTED TO CONTINUE AT QUIET TO UNSETTLED
LEVELS DURING THE FORECAST PERIOD. A LARGE CORONAL HOLE JUST AT
CENTRAL MERIDIAN MAY TRIGGER ACTIVE CONDITIONS AT THE END OF
THE FORECAST PERIOD.

III. EVENT PROBABILITIES 25 OCT-27 OCT

CLASS M 50/20/20

CLASS X 05/02/01

PROTON 05/02/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 23 OCT 210

ESTIMATED 24 OCT 193

PREDICTED 25 OCT-27 OCT 183/175/168

90 DAY MEAN 23 OCT 223

V. GEOMAGNETIC A INDICES

OBSERVED AFR 22 OCT 043 AP 23 OCT 022

ESTIMATED AFR 23 OCT 018 AFR/AP 24 OCT 007/010

PREDICTED AFR/AP 25 OCT-27 OCT 008/010-008/008-012/012

SOLTERWARN-

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HFUS 3 BOU 242200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 297B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200Z 24 OCT 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
24/1200Z TO 24/2100Z: SOLAR ACTIVITY HAS BEEN LOW DURING THE
PAST 9 HOURS. FEWER THAN 5 SMALL C-CLASS SUBFLARES HAVE BEEN
OBSERVED DURING THAT TIME. THAT SUBFLARE ACTIVITY HAS BEEN
PRODUCED MAINLY IN REGION 3403 (S11W84) (WHICH IS APPARENTLY
CONTINUING TO DECAY) AND REGION 3415 (N20W58) (WHICH HAS SHOWN
SOME GROWTH). OTHER REGIONS AND BOTH LIMBS ARE QUIET.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO
CONTINUE GENERALLY LOW. ALTHOUGH IT IS DECLINING SLOWLY, REGION
3403 CANNOT BE COMPLETELY DISMISSED AS A MAJOR FLARE THREAT FOR
A COUPLE OF DAYS STILL. THE CHANCES OF AN OCCASIONAL M-CLASS
FLARE ARE DIMINISHING RAPIDLY.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS
BEEN MILDLY ACTIVE DURING THE PAST 9 HOURS. THE FIELD IS
EXPECTED TO BE MILDLY ACTIVE TO UNSETTLED FOR THE NEXT 9 TO 12
HOURS. AFTER THAT, THE FIELD IS EXPECTED TO BE MILDLY UNSETTLED
TO QUIET.

III. EVENT PROBABILITIES 25 OCT-27 OCT

CLASS M 50/20/20

CLASS X 05/02/01

PROTON 05/02/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 24 OCT 203

PREDICTED 25 OCT-27 OCT 188/175/168

90 DAY MEAN 24 OCT 223

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 23 OCT 023/022

ESTIMATED AFR/AP 24 OCT 013/014

PREDICTED AFR/AP 25 OCT-27 OCT 008/010-008/008-012/012

SOLTERWARN

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