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HEUS 1, BOL 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

I.A. 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 C2/1N 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 (S09W52) 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.

II. 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.

III. GEOPHYSICAL SUMMARY AND FORECAST:

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

IV. EVENT PROBABILITIES 25 OCT-27 OCT.

CLASS M 5.0/20/20

CLASS X 05/02/01

PROTON 05/02/01

PCAF GREEN

V. 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

VI. GEOMAGNETIC INDICES

OBSERVED AFR 22 OCT 043 AP 23 OCT 022

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

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

SOLARFLARE WARN

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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 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 UNSETLED FOR THE NEXT 9 TO 12 HOURS. AFTER THAT, THE FIELD IS EXPECTED TO BE MILDLY UNSETLED 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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