

TIME
CALLED INITIALS

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HFUS 1 BOU 271300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 331A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 27 NOV 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 26/1200Z TO 27/1200Z: SOLAR ACTIVITY HAS BEEN MODERATE. THREE M CLASS XRAY EVENTS OCCURRED WITHOUT OPTICAL CORRELATION INDICATING THEY CAME FROM REGION 3994 (S11W96) WHICH HAS ROTATED OVER THE WEST LIMB. THE LARGEST WAS AN M2.7 MAXING AT 1612Z WITH MODERATE DISCRETE RADIO EMISSION AND SHORT WAVE FADES TO 15 MHZ. OTHER FLARES THIS PERIOD CAME FROM REGIONS 4000 (S23W04), 4005 (S11E71) AND 4006 (S26W16). THE FLARE FROM 4006 (A SPOTLESS PLAGE AREA) WAS OPTICALLY A 2B AND WAS ACCOMPANIED BY A TYPE II RADIO SWEEP. A FILAMENT THAT WAS PRESENT OVER THE FLARE REGION AND WAS APPROXIMATELY 11 DEGREES IN EXTENT HAS DISSAPPEARED DURING THIS PERIOD. REGION 4005 ROTATED ONTO THE DISK AND NOW APPEARS TO BE A DKI REGION. MAGNETICALLY IT IS A BETA GROUP WITH A POSSIBLE DELTA CONFIGURATION, HOWEVER IT IS STILL TOO CLOSE TO THE LIMB FOR ACCURATE ANALYSIS. OTHER REGIONS ARE ESSENTIALLY UNCHANGED DURING THE PERIOD.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE LOW DURING THE FORECAST PERIOD. II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD STARTED THE PERIOD AT MAJOR STORM LEVELS BUT QUICKLY SUBSIDED TO ACTIVE CONDITIONS. THE GEOMAGNETIC FIELD IS EXPECTED TO RETURN TO MINOR STORM LEVELS ON THE 28TH IN RESPONSE TO THE X4/2B FLARE THAT OCCURRED ON THE 26TH. IT IS EXPECTED TO REMAIN AT MINOR STORM LEVELS THROUGH THE REST OF THE FORECAST BECAUSE OF FILAMENT RELATED ACTIVITY.

III. EVENT PROBABILITIES 28 NOV-30 NOV

CLASS M 30/30/30

CLASS X 01/01/01

PROTON 01/01/01

PCAF IN PROGRESS

IV. OTTAWA 10.7 CM FLUX

OBSERVED 26 NOV 173

ESTIMATED 27 NOV 163

PREDICTED 28 NOV-30 NOV 159/157/156

90 DAY MEAN 26 NOV 165

V. GEOMAGNETIC A INDICES

OBSERVED AFR 25 NOV 037 AP 26 NOV 042

ESTIMATED AFR 26 NOV 023 AFR/AP 27 NOV 013/020

PREDICTED AFR/AP 28 NOV-30 NOV 030/030-035/035-035/035

SOLTERWARN

BT

HFUS 3 BOU 272200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 331B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 27 NOV 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 27/1200Z TO 27/2100Z: SOLAR ACTIVITY HAS BEEN LOW DURING THE PAST NINE HOURS. THE LARGEST EVENT OF THE PERIOD WAS A C6/SB FLARE FROM REGION 4005 (S11E61) AT 1522Z MAXIMUM. THIS REGION HAS GROWN SLOWLY SINCE IT APPEARED AT EAST LIMB YESTERDAY. A TIGHTENING MAGNETIC GRADIENT AND MODERATELY STRONG DELTA MAGNETIC CONFIGURATION ARE LOCATED IN THE REGIONS NORTHEAST PORTION OF ITS LARGE LEADER SPOT. OTHER MINOR C-CLASS XRAY EVENTS DURING THE PERIOD WERE NOT CORRELATED OPTICALLY DUE TO WEATHER AT MOST OF THE OBSERVATORIES. THREE NEW REGIONS WERE NUMBERED TODAY, REGION 4007 (S14E44), A GROWING B-TYPE GROUP, 4008 (S22E59), A SIMPLE A-TYPE GROUP, AND 4009 (S28W07), A SMALL A-TYPE SPOT LOCATED JUST BEHIND REGION 4000 (S23W14). REGION 4000 IS DISPLAYING SLIGHT GROWTH ALONG WITH MINOR PLAGE FLUCTUATIONS. THE REMAINDER OF THE DISK IS UNCHANGED. IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD REMAIN LOW, HOWEVER, IF DEVELOPMENT IN REGION 4005 CONTINUES, AN ISOLATED M-CLASS EVENT IS POSSIBLE DURING THE NEXT 24 HOURS.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN ACTIVE DURING THE PAST NINE HOURS. ACTIVE CONDITIONS ARE EXPECTED TO CONTINUE UNTIL MID-ZULU DAY TOMORROW, WHEN MINOR STORM LEVELS ARE FORECAST AS A RESULT OF THE X4 FLARE AND DISAPPEARING FILAMENT YESTERDAY. THESE MINOR STORM CONDITIONS SHOULD CONTINUE FOR THE REMAINDER OF THE FORECAST PERIOD. THE PROTON EVENT AND POLAR CAP ABSORPTION EVENT ENDED TODAY AT 1325Z.

III. EVENT PROBABILITIES 28 NOV-30 NOV

CLASS M 30/30/30

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 27 NOV 163

PREDICTED 28 NOV-30 NOV 159/157/156

90 DAY MEAN 27 NOV 165

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 26 NOV 020/042

ESTIMATED AFR/AP 27 NOV 020/020

PREDICTED AFR/AP 28 NOV-30 NOV 030/030-035/035-035/035

SOLTERWARN

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