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HFUS 3 BOU 272200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 361

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 27 DEC 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 26/2100 TO 27/2100Z: SOLAR ACTIVITY HAS CONTINUED AT A VERY LOW LEVEL DURING THE PAST 24 HOURS. NO OPTICAL EVENTS HAVE BEEN REPORTED AND ONLY VERY SMALL X-RAY INCREASES OBSERVED. REGIONS 4383 (N03W39 L) AND 4385 (S16W69) HAD SPOTS EARLY IN THE DAY HOWEVER THEY HAVE BEEN REPORTED AS SPOTLESS DURING THE LAST SIX HOURS. NEW REGION OBSERVED TODAY HAS BEEN NUMBERED AS 4387 (N12E63) AND IS A SIMPLE B TYPE.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN VERY LOW DURING THIS FORECAST PERIOD.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 26/2100Z TO 27/2100Z: THE GEOMAGNETIC FIELD HAS BEEN UNSETLED WITH SHORT PERIODS AT ACTIVE LEVELS DURING THIS PERIOD. THE LARGE FILAMENT WHICH WAS JUST AT CENTRAL MERIDIAN DISAPPEARED EARLY TODAY ITS LOCATION WAS FROM N1W04 TO N52E28 A SMALL LONG DURATION (4 HOUR) X-RAY RISE WAS OBSERVED WITH THIS EVENT. ANOTHER FILAMENT DISAPPEARED SOME TIME AROUND 1722Z FROM N10E4 NEAR REGION 4384, A SMALL X-RAY EVENT STARTED AT 1415Z AND REACHED MAXIMUM (B3.6) 1545Z AND RETURNED TO BACK GROUND LEVEL AT 1805Z.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE UNSETLED TO SLIGHTLY ACTIVE DURING THE FIRST 24 HOURS OF THIS FORECAST. THE FIELD IS THEN EXPECTED TO BE AT SLIGHTE TO MINOR, MAJOR STORM AT THE HIGH LATITUDE SITES, STORM LEVELS DURING THE REST OF THE FORECAST PERIOD. THIS ACTIVITY IS FORECAST IN RESPONSE TO THE FILAMENT DISAPPEARANCES OF 26 AND 27 DEC.

III. EVENT PROBABILITIES 28 DEC-30 DEC

CLASS M 01/01/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 27 DEC 086

PREDICTED 28 DEC-30 DEC 086/087/088

9 P DAY MEAN 27 DEC 101

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 26 DEC 012/015

ESTIMATED AFR/AP 27 DEC 013/020

PREDICTED AFR/AP 28 DEC-30 DEC 010/015-020/020-025/025

SOLTERWARN

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