

BT
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 359

PAP

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 25 DEC 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 24/2100Z TO 25/2100Z: SOLAR ACTIVITY HAS CONTINUED VERY LOW THIS PERIOD. ONLY ONE OPTICAL FLARE HAS BEEN OBSERVED THIS PERIOD A SUB FAINT FROM REGION 4380 (S12W89) AT 0704Z, NO X-RAY INCREASE OBSERVED WITH THE EVENT. A SMALL PORTION (4 DEGREES LONG) OF A FILAMENT DISAPPEARED FROM (N01W08) AT 1625Z THIS APPEARS TO BE PART OF A LARGE SOLAR SECTOR BOUNDARY WHICH HAS BEEN AT L160 FOR THE LAST 5 ROTATIONS. NEW REGION OBSERVED AND NUMBERED TODAY IS 4834 (N13E66) A SIMPLE "A" GROUP. THE REST OF THE DISK REPORTED QUIET. ✓

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO CONTINUE AT A VERY LOW LEVEL DURING THIS FORECAST PERIOD. ✓

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 24/2100Z TO 25/2100Z: THE GEOMAGNETIC FIELD HAS BEEN GENERALLY AT ACTIVE LEVELS, SHORT PERIODS AT MINOR STORM AT THE HIGH LATITUDE SITES, DURING THE PAST 24 HOURS.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE AT ACTIVE TO MINOR STORM LEVELS AT THE MID-LATITUDE SITES WHILE THE HIGH LATITUDE SITES WILL HAVE SHORT PERIODS OF MAJOR STORM LEVELS DURING THIS FORECAST PERIOD. THE FILAMENT WHICH DISAPPEARED TODAY MAY CAUSE AN INCREASE IN THE GEOMAGNETIC ACTIVITY SHORTLY AFTER THIS FORECAST PERIOD. ✓

III. EVENT PROBABILITIES 26 DEC-28 DEC

CLASS M 01/01/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 25 DEC 087

PREDICTED 26 DEC-28 DEC 085/083/085

90 DAY MEAN 25 DEC 101

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 24 DEC 012/015

ESTIMATED AFR/AP 25 DEC 015/020

PREDICTED AFR/AP 26 DEC-28 DEC 020/025-025/020-015/015

SOLTERWARN

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