

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 302

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200Z 28 OCT 1984

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 27/2100
TO 28/2100Z: SOLAR ACTIVITY WAS VERY LOW. NO SPOTTED REGION WAS
VISIBLE ON THE DISK. A THREE DEGREE LONG FILAMENT DISAPPEARED
FROM REGION 4587 (N13W20) AT 28/0900Z. NO NEW REGION WAS
ASSIGNED.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE
VERY LOW. RETURNING REGION 4582 (S05, CAR-337) DIED ON THE DISK,
DURING ITS LAST ROTATION, THREE DAYS BEFORE IT CROSSED THE WEST
LIMB. IT OFFERS VERY LITTLE CHANCE OF ANY ACTIVITY UPON THE
RETURN OF ITS PRIOR LOCATION.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 27/2100Z TO 28/2100Z:
GEOMAGNETIC FIELD WAS QUIET TO UNSETTLED.

IIB. GEOPHYSICAL ACTIVITY FORECAST: GEOMAGNETIC FIELD IS
EXPECTED TO BE UNSETTLED-TO-ACTIVE, WITH THE POSSIBILITY OF
MINOR STORM LEVELS AT HIGH LATITUDES, THE FIRST DAY (29 OCT).
THE SECOND AND THIRD DAYS (30-31 OCT) ARE EXPECTED TO BE AT
ACTIVE-TO-BRIEFLY MINOR STORM LEVELS DUE TO THE ERUPTIVE
PROMINENCE EVENT OF 21/2200Z AT THE SOUTH-EAST LIMB. MAJOR
STORM LEVELS ARE POSSIBLE AT HIGH LATITUDES DURING LOCAL
MID-NIGHT PERIODS. THIS PROMINENCE/DISTURBANCE CORRELATION IS A
NEW FORECASTING TOOL AND BOTH THE MAGNITUDE AND TIMING ARE NOT
YET SUBSTANTIATED WITH A LARGE HISTORICAL DATA-BASE.

III. EVENT PROBABILITIES 29 OCT-31 OCT

CLASS M 01/01/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 28 OCT 070

PREDICTED 29 OCT-31 OCT 071/071/071

90 DAY MEAN 28 OCT 079

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 27 OCT 006/010

ESTIMATED AFR/AP 28 OCT 007/010

PREDICTED AFR/AP 29 OCT-31 OCT 011/015-015/025-015/020

SOLTERWARN

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