

HFUS3 BOU 022200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 276

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 02 OCT 1984

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 01/2100 TO 02/2100Z: SOLAR ACTIVITY WAS VERY LOW. NO NEW REGION WAS ASSIGNED.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE VERY LOW. NO SIGNIFICANT RETURNING REGION IS EXPECTED.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 01/2100Z TO 02/2100Z: GEOMAGNETIC ACTIVITY WAS UNSETTLED TO ACTIVE. ACTIVE TO MINOR STORM LEVELS WERE REPORTED AT HIGH LATITUDES 02/1500-1930Z.

YESTERDAY'S POLAR CAP ABSORPTION EVENT REPORTED BY THULE'S

RIOMETER WAS CONFIRMED BY CAPE PERRY DATA TODAY. THIS PCA STARTED AT 01/0500Z AND ENDED AT 01/0800Z. THIS PCA WAS EQUAL TO THE .5DB THRESHOLD CRITERIUM FOR A PCA EVENT AND BELIEVED TO BE NON-SOLAR IN ORIGIN.

IIB. GEOPHYSICAL ACTIVITY FORECAST: GEOMAGNETIC ACTIVITY IS EXPECTED TO BE AT ACTIVE TO OCCASIONAL MINOR STORM LEVELS THE FIRST 36 HOURS (3-4/12Z OCT) DUE TO SEVERAL SMALL DISAPPEARING FILAMENTS OF 27-29 SEP. MAJOR STORM LEVELS ARE POSSIBLE AT HIGH LATITUDES. UNSETTLED LEVELS ARE EXPECTED THROUGHOUT THE REMAINDER OF THE SECOND AND THIRD DAYS (4-5 OCT).

III. EVENT PROBABILITIES 03 OCT-05 OCT

CLASS M 01/01/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 02 OCT 075

PREDICTED 03 OCT-05 OCT 074/072/070

90 DAY MEAN 02 OCT 083

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 01 OCT 006/009

ESTIMATED AFR/AP 02 OCT 012/015

PREDICTED AFR/AP 03 OCT-05 OCT 020/015-015/015-015/015

SOLTERWARN

BT