

HFUS 3 BDU 092200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 009

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 09 JAN 1984

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 08/2100 TO 09/2100Z: SOLAR ACTIVITY HAS REMAINED VERY LOW. ALL REGIONS ARE SIMPLE IN STRUCTURE. ONE NEW REGION WAS NUMBERED TODAY. THIS WAS REGION 4392 (S12E68) A CHO GROUP THAT ROTATED ONTO THE DISK. LAST ROTATION THIS REGION PRODUCED NUMEROUS SMALL FLARES (ALL OF XRAY CLASS C OR SMALLER). A 19 DEGREE PORTION OF A FILAMENT DISAPPEARED FROM N15E45 AROUND 0800Z TODAY.

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

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 08/2100Z TO 09/2100Z: THE GEOMAGNETIC FIELD HAS BEEN QUIET.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BECOME UNSETTLED TO ACTIVE FOR THE FIRST DAY OF THE FORECAST AND THEN RETURN TO QUIET TO UNSETTLED LEVELS. THIS INCREASE IS ANTICIPATED BECAUSE OF RECURRENCE. THE FILAMENT THAT DISAPPEARED IS NOT EXPECTED TO HAVE A SIGNIFICANT INFLUENCE ON THE GEOMAGNETIC FIELD, HOWEVER LACK OF AN H ALPHA IMAGE MAKES THIS FORECAST UNCERTAIN.

III. EVENT PROBABILITIES 10 JAN-12 JAN

CLASS M 01/01/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 09 JAN 098

PREDICTED 10 JAN-12 JAN 099/099/099

90 DAY MEAN 09 JAN 095

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 08 JAN 002/005

ESTIMATED AFR/AP 09 JAN 003/015

PREDICTED AFR/AP 10 JAN-12 JAN 010/015-006/015-008/010

SOLTERWARN

BT