

SDF issued at 2111UT 27 OCT 86

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 300

JOINT USAF/NDAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200Z 27 OCT 1986

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 26/2100Z TO 27/2100Z: SOLAR ACTIVITY HAS BEEN VERY LOW. REGION 4750 (N23W54) HAD SHOWN SOME INCREASE IN COMPLEXITY EARLY IN THE PERIOD, HOWEVER, RECENT REPORTS INDICATE THAT THE REGION IS DECLINING. AN AFS WAS REPORTED IN REGION 4753 (S22E37) BUT IT TOO APPEARS TO BE DECLINING. REGION 4754 (S00E73), A LARGE H TYPE SPOT, ROTATED OVER THE EAST LIMB IN THE AREA OF RETURNING REGIONS 4748 AND 4749.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE VERY LOW. THERE IS A SLIGHT CHANCE OF ENERGETIC ACTIVITY.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 26/2100Z TO 27/2100Z: THE GEOMAGNETIC FIELD HAS BEEN AT ACTIVE TO MINOR STORM LEVELS WITH PERIODS AT MAJOR STORM LEVELS AT HIGH LATITUDES. THIS DISTURBANCE, WHICH BEGAN AFTER 0600UT, IS PROBABLY ASSOCIATED WITH EARLIER FLARE EVENTS IN REGION 4750.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE AT ACTIVE LEVELS EARLY IN THE PERIOD DECREASING TO GENERALLY UNSETTLED CONDITIONS BY THE END OF THE PERIOD.

III. EVENT PROBABILITIES 28 OCT-30 OCT

CLASS M 15/10/10

CLASS X 01/01/01

PROTON 05/05/05

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 27 OCT 096

PREDICTED 28 OCT-30 OCT 093/090/087

90 DAY MEAN 27 OCT 073

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 26 OCT 003/007

ESTIMATED AFR/AP 27 OCT 015/025

PREDICTED AFR/AP 28 OCT-30 OCT 010/015-010/015-010/010