

SDF issued at 2132UT 25 NOV 87

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 329

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200Z 25 NOV 1987

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 24/2100Z
TO 25/2100Z: SOLAR ACTIVITY WAS VERY LOW. REGION 4891 (S21W45)
CONTINUED TO DECAY. REGION 4896 (S33W57) CONTINUED TO SLOWLY
EMERGE. THE LONG DURATION EVENT WHICH BEGAN NEAR 24/1845Z FROM
REGION 4895 (N29E24) DID NOT END UNTIL APPROXIMATELY 25/0500Z.
A LARGE CORONAL MASS EJECTION WAS OBSERVED FROM THIS AREA BY
THE SMM CORONAGRAPH. THE LEADING EDGE OF THIS EJECTION WAS
MEASURED TO BE TRAVELLING AT 550 KM/S.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO
CONTINUE AT A VERY LOW LEVEL. AN ISOLATED CLASS M FLARE
REMAINS REMOTELY POSSIBLE, PRIMARILY FROM REGION 4896.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 24/2100Z TO 25/2100Z:
THE GEOMAGNETIC FIELD WAS UNSETTLED TO ACTIVE AT BOTH
MIDDLE AND HIGH LATITUDES.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD
SHOULD BE UNSETTLED TO SLIGHTLY ACTIVE ON 26 NOV. NUMERICAL
MODELING INDICATES THE CORONAL MASS EJECTION FROM REGION
4895 SHOULD ARRIVE AT EARTH DURING THE LATTER HALF OF 27 NOV.
ACTIVE TO MINOR STORM LEVELS SHOULD COMMENCE AT THAT TIME
WITH MINOR STORM LEVELS FORECAST FOR 28 NOV.

III. EVENT PROBABILITIES 26 NOV-28 NOV

CLASS M 15/15/15

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 25 NOV 107

PREDICTED 26 NOV-28 NOV 106/104/102

90 DAY MEAN 25 NOV 095

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 24 NOV 021/037

ESTIMATED AFR/AP 25 NOV 013/020

PREDICTED AFR/AP 26 NOV-28 NOV 012/015-018/023-030/033