

HFUS 3 BOU 272200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 270

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 27 SEP 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 26/2100 TO 27/2100Z: SOLAR ACTIVITY CONTINUES LOW WITH X-RAY BURSTS STILL AT OR BELOW THE C1 LEVEL. TODAY, THE SOLAR DISK CONTAINS ONLY TWO REGIONS WITH SUNSPOTS. REGION 4324 (S20E07) HAS DECREASED IN SUNSPOT AREA DUE TO DECAY AND FRAGMENTATION OF THE PENUMBRAE. LITTLE CHANGE HAS OCCURRED IN THE NEUTRAL LINE CONFIGURATION FOR THIS REGION. REGION 4327 (S13W69) HAS CONTINUED A MODERATE GROWTH PATTERN SINCE ITS EMERGENCE YESTERDAY. HOWEVER, IT HAS A SIMPLE BIPOLAR ORIENTATION.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW WITH ONLY AN ISOLATED CHANCE FOR THE OCCURRENCE OF CLASS M ACTIVITY.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 26/2100Z TO 27/2100Z: THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED TO ACTIVE AT MIDLATITUDES AND ACTIVE TO MINOR STORM LEVEL AT HIGH LATITUDES.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE UNSETTLED TO ACTIVE WITH STRONGER RESPONSES AT HIGH LATITUDES DURING SUBSTORM PERIODS.

III. EVENT PROBABILITIES 28 SEP-30 SEP

CLASS M 15/10/05

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 27 SEP 119

PREDICTED 28 SEP-30 SEP 117/115/113

90 DAY MEAN 27 SEP 120

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 26 SEP 024/031

ESTIMATED AFR/AP 27 SEP 012/025

PREDICTED AFR/AP 28 SEP-30 SEP 015/020-010/015-010/015

SOLTERWARN

BT