

3 BOU 072200

SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SOF NUMBER 127

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200Z 07 MAY 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 06/2100
TO 07/2100Z: SOLAR ACTIVITY INCREASED TO MODERATE LEVELS. REGION
4171 (S30E63) PRODUCED AN M1/SB AT 070747Z (MAX) AND A SECOND
M1 WITH NO OPTICAL MAXED AT 071047Z. REGION 4171 HAS A BETA
GAMMA DELTA MAGNETIC CONFIGURATION IN A VERY LARGE PENUMBRA IN
ITS CENTRAL PORTIONS. THIS REGION IS NOT OVERLY RICH IN PLAGE
AND IS ONLY MODERATELY BRIGHT. REGION 4165 (S10W38) HAS RESUMED
GROWTH AND MAY ALSO CONTAIN A DELTA. THE GRADIENTS IN 4165 ARE
QUITE STRONG. REGION 4173 (S12E15) DEVELOPED SINCE YESTERDAY
AND CONTINUES TO GROW.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD REMAIN AT A
MODERATE LEVEL.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 06/2100Z TO 07/2100Z:
THE GEOMAGNETIC FIELD HAS BEEN QUIET TO UNSETTLED.

IIB. GEOPHYSICAL ACTIVITY FORECAST: A GEOMAGNETIC STORM IS
EXPECTED ON 8 MAY DECAYING TO ACTIVE CONDITIONS ON 9 AND 10
MAY.

III. EVENT PROBABILITIES 08 MAY-10 MAY

CLASS M 70/70/70

CLASS X 05/05/05

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 07 MAY 115

PREDICTED 08 MAY-10 MAY 115/115/115

90 DAY MEAN 07 MAY 118

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 06 MAY 014/017

ESTIMATED AFR/AP 07 MAY 010/012

PREDICTED AFR/AP 08 MAY-10 MAY 040/045-020/040-022/025

SOLTERWARN

BT