

FUS 3 BQU 012200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 121

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 01 MAY 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 30/2100 TO 01/2100Z: SOLAR ACTIVITY HAS BEEN MODERATE. REGION 4165 (S09E43) PRODUCED AN M1/SB AT 1307Z; A C8/1B AT 0258Z (MAX); AND, A C5/1B AT 1834Z. REGION 4154 (S15W42) PRODUCED A C4/1N AT 0712Z AND A C7/1N AT 2045Z. ONLY MINOR RADIO BURSTS OCCURRED WITH ALL THESE FLARES. ISOLATED SUNSPOTS ARE EMERGING AROUND THE LARGE TRAILER OF REGION 4154; ADDITIONALLY, THE NEUTRAL LINE FILAMENT IN THIS PORTION OF THE REGION REMAINS ACTIVE. AN ISOLATED ENERGETIC FLARE IN THE TRAILER OF REGION 4154 CAN BE EXPECTED. REGION 4165 CONTINUES TO GROW. AN ANOMOLOUS LEADER POLE EXISTS NEAR THE LARGE TRAILER SPOT. CONTINUED GROWTH COULD LEAD TO A DELTA CONFIGURATION IN REGION 4165. SLIGHT GROWTH CONTINUES IN REGION 4162 (S15W29) BUT THE REGION REMAINS A SIMPLE BIPOLE.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN MODERATE WITH INTERMITTENT CLASS M FLARES FROM REGIONS 4165 AND 4154.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 30/2100Z TO 01/2100Z: THE GEOMAGNETIC FIELD WAS ACTIVE FOR THIS PERIOD BUT WITH A GRADUAL ONSET TO STORM LEVEL AFTER 1900Z.

IIB. GEOPHYSICAL ACTIVITY FORECAST: ACTIVE CONDITIONS ARE EXPECTED TO CONTINUE THROUGH THE FORECAST PERIOD BUT WITH INTERMITTENT PERIODS AT STORM LEVEL.

III. EVENT PROBABILITIES 02 MAY-04 MAY

CLASS M 60/60/60

CLASS X 05/05/05

PROTON 05/05/05

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 01 MAY 140

PREDICTED 02 MAY-04 MAY 138/134/128

90 DAY MEAN 01 MAY 120

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 30 APR 026/030

ESTIMATED AFR/AP 01 MAY 018/020

PREDICTED AFR/AP 02 MAY-04 MAY 020/025-025/030-020/030

SOLTERWARN

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