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HFUS 3 BOU 042200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 063

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 04 MAR 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 03/2100 TO 04/2100Z: SOLAR ACTIVITY HAS BEEN LOW. THE MOST SIGNIFICANT EVENT OF THE PERIOD WAS A C5/1N FLARE REPORTED IN REGION

4098(S17W38)AT 0701Z. THIS EVENT HAS ASSOCIATED WITH IT TYPE II/IV RADIO SWEEP EMISSION, UNCHARACTERISTIC OF SUCH A SMALL FLARE. WE MAY HAVE EXPERIENCED AN IMPACT FLARE ASSOCIATED WITH A FILAMENT ERUPTION FROM NEAR THAT REGION. OPTICAL OBSERVATIONS HAVE BEEN SEVERELY LIMITED DUE TO WEATHER SO THAT THE FACTS OF THE MATTER ARE NOT CLEAR. A OF FLARE WAS REPORTED FROM (S17E50). NO REGION HAS BEEN NUMBERED THERE. NO SPOT REPORTS INDICATE A REGION THERE. NEW REGIONS TODAY ARE

4103(S13W50), 4107(S07W18), 4108(S15E10), AND 4109(S11E21). ALL ARE SMALL MAGNETIC BIPOLAR REGIONS IN EARLY DEVELOPMENT STAGES. REGION COMPLEX 4102(S15E03)/4104(S18E12)/4105(S09W08) HAS STABILIZED AND CONTAINS ONLY MODEST GRADIENTS AND FAIRLY SIMPLE MAGNETIC STRUCTURE.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO CONTINUE LOW WITH ONLY A SMALL PROBABILITY FOR AN ISOLATED M-CLASS FLARE FROM THE REGION COMPLEX.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 03/2100Z TO 04/2100Z: THE GEOMAGNETIC FIELD HAS BEEN ACTIVE AND GENERALLY DECLINING DURING THE REPORT PERIOD.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO REMAIN UNSETTLED TO ACTIVE DURING 5 MARCH.

CONDITIONS ARE EXPECTED TO INCREASE TOWARD ACTIVE TO MINOR STORM LEVEL LATE ON 5 MARCH DUE TO THE FILAMENT DISAPPEARANCE EARLY ON 2 MARCH.

III. EVENT PROBABILITIES 05 MAR-07 MAR

CLASS M 40/40/40

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 04 MAR 146

PREDICTED 05 MAR-07 MAR 140/136/132

90 DAY MEAN 04 MAR 154

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 03 MAR 029/036

ESTIMATED AFR/AP 04 MAR 016/020

PREDICTED AFR/AP 05 MAR-07 MAR 015/020-020/020-020/015

SOLTERWARN

BT

*Didn't get regions for shop
until after forecast
4/03(S13 W50)
regained Spots.*