

HFUS3 BOU 192200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 353

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 19 DEC 1985

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 18/2100 TO 19/2100Z: SOLAR ACTIVITY HAS CONTINUED TO BE VERY LOW FOR THE PAST 24 HOURS. REGION 4708 (N02W57) IS NOW A CRO SPOT GROUP THAT HAS CONTINUED TO DECAY IN BOTH SPOTS AND PLAGE. REGION 4709 (S10W37) IS A DSO SPOT GROUP THAT HAS BEGUN TO DECLINE IN BOTH EXTENT AND SPOT NUMBER. PLAGE FLUCTUATIONS CONTINUE BUT STRONG SIGNS OF DECAYING PHASE ARE EVIDENT.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN VERY LOW FOR THE FORECAST PERIOD AS REGIONS CONTINUE TO DECAY.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 18/2100Z TO 19/2100Z: THE GEOMAGNETIC FIELD HAS GENERALLY BEEN AT ACTIVE TO MINOR STORM LEVELS FOR THE PAST 24 HOURS WITH PERIODS OF MAJOR STORM CONDITIONS AT HIGH LATITUDES OCCURRING SINCE 0600 UT 19 DECEMBER.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO REMAIN AT HIGH ACTIVE LEVELS FOR THE NEXT 24 HOURS WITH MINOR STORM LEVELS AND ISOLATED PERIODS OF MAJOR STORM CONDITIONS OCCURRING AT HIGH LATITUDES FOR THE NEXT 12 TO 15 HOURS. THE SECOND DAY OF THE PERIOD SHOULD SEE A DECREASE IN ACTIVITY TO THE UNSETTLED TO ACTIVE LEVELS WITH A RETURN TO POSSIBLE MINOR STORM CONDITIONS ON THE THIRD DAY. THE EXPECTED STORM LEVELS ARE IN RESPONSE TO DISAPPEARING FILAMENTS ON 14 DECEMBER (N18E15) AND 17 DECEMBER (S08W44) RESPECTIVELY. NOTICE NOTICE NOTICE--- GOES 6 IS THE PRIMARY SATELLITE BEING MONITORED BY THE SESC AND ALL REFERENCES TO SATELLITE DATA ARE BASED ON THE OBSERVATIONS FROM GOES 6 EFFECTIVE 0000Z 20 DEC 1985.

III. -EVENT PROBABILITIES 20 DEC-22 DEC -

CLASS M 01/01/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 19 DEC 080

PREDICTED 20 DEC-22 DEC 080/080/079

90 DAY MEAN 19 DEC 074

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 18 DEC 013/014

ESTIMATED AFR/AP 19 DEC 024/055

PREDICTED AFR/AP 20 DEC-22 DEC 017/025-010/020-015/030

SOLTERWARN

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