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HFUS 1 BOU 281419

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 088A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1200UT 29 MARCH 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM

28/1200UT TO 29/1200UT:

SOLAR ACTIVITY HAS BEEN LOW. EVENTS HAVE BEEN LIMITED TO NUMEROUS C CLASS XRAY, TYPICALLY SURFLARES OPTICALLY, PRIMARILY ORIGINATING IN REGION 2999 (S43W20) WITH MINOR CONTRIBUTIONS FROM SEVERAL OTHER REGIONS. REGION 2999 HAS GROWN, REMAINS COMPLEX AND A STRONG DELTA PERSISTS. REGION 2993 (N14W64) HAS DECLINED SIGNIFICANTLY. REGION 2996 (S19W60) AND 3009 (N26E69) HAVE DISPLAYED ARCH FILAMENTS AND REGION 2996 IS ALSO EXHIBITING RAPID DEVELOPMENT.

IB. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY IS EXPECTED TO RETURN TO MODERATE LEVELS. REGION 2999 IS THE MOST LIKELY SOURCE OF ENERGETIC ACTIVITY FOLLOWED BY REGION 2993 WHICH STILL HAS PROSPECTS EVEN IN DECLINE. LOW LEVEL ACTIVITY MAY OCCUR IN REGION 2996 AS WELL AS FROM ANY OF SEVERAL OF THE NEW REGIONS RECENTLY REPORTED.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS BEEN UNSETLED, APPROACHING NEAR ACTIVE LEVEL BRIEFLY. IT IS EXPECTED TO REMAIN AT UNSETLED LEVELS.

III. EVENT PROBABILITIES: 30 MARCH - 01 APRIL

CLASS M 60/60/60

CLASS X 02/02/02

PROTON 02/02/02

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 28 MARCH 202

ESTIMATED 29 MARCH 205

PREDICTED 30 MARCH-01 APRIL 210/210/205

90 DAY MEAN 28 MARCH 195

V. GEOMAGNETIC A INDICES

OBSERVED AFR 27 MARCH 16 AP 28 MARCH 13

ESTIMATED AFR 28 MARCH 13 AFR/AP 29 MARCH 15/20

PREDICTED AFR/AP 30 MARCH - 01 APRIL 12/15 15/20 15/20

SOLTERWARN

BT

HFUS 3 BOU 292200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 089B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200UT 29 MARCH 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM

29/1200UT TO 29/2200UT:

SOLAR ACTIVITY REMAINS LOW WITH ONLY CLASS C SUBFLARES REPORTED. REGION 2999 (S43W26) CONTINUES TO GROW WITH NEAR CONTINUOUS POINT BRIGHTENINGS AND PLAGE FLUCUATIONS. REGION 3001 (N20W20) IS ALSO GROWING IN WHITE LIGHT. A SMALL NEW REGION 3013 (N10E63) WAS NUMBERED TODAY. REGIONS 2993 (N14W69) CONTINUES TO DECLINE SLOWLY.

IB. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY IS EXPECTED TO RETURN TO MODERATE LEVELS. REGION 2999 IS THE MOST LIKELY SOURCE OF ENERGETIC ACTIVITY. REGION 2993 IS STILL CAPABLE OF CLASS M EVENTS AS IT DECLINES. LOW LEVEL ACTIVITY MAY OCCUR IN SEVERAL OF THE OTHER REGIONS ON THE DISK.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS BEEN UNSETLED TO NEAR ACTIVE TODAY.

IT IS EXPECTED TO BE UNSETLED DURING THE FORECAST PERIOD.

III. EVENT PROBABILITIES: 30 MARCH - 01 APRIL

CLASS M 60/60/60

CLASS X 02/02/02

PROTON 02/02/02

DCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 29 MARCH 215

PREDICTED 30 MARCH-01 APRIL 210/210/205

90 DAY MEAN 29 MARCH 194

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 28 MARCH 14/13

ESTIMATED AFR/AP 29 MARCH 16/19

PREDICTED AFR/AP 30 MARCH-01 APRIL 12/15 15/20 15/20

SOLTERWARN

BT