HFUS 1 BOU 091400
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 068A
JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 1200UT 09 MARCH 1981
1A. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
08/1200UT TO 09/1200UT:
SOLAR ACTIVITY HAS BEEN AT LOW LEVELS. ONLY ABOUT HALF A DOZEN C-CLASS EVENTS OCCURRED DURING THIS PERIOD, THE LARGEST BEING A C5/SB EVENT AT 08/1903UT FROM REGION 2971 (N06E30). THIS REGION HAS BEEN THE ONLY ONE OF THE THIRTEEN ON THE SOLAR DISK TO SHOW ANY SIGNIFICANT ACTIVITY AT ALL.
1B. SOLAR ACTIVITY FORECAST:
SOLAR ACTIVITY IS EXPECTED TO REMAIN AT LOW LEVELS, UNTIL REGION 2971 IS ABLE TO DEVELOP FURTHER. ALL OTHER REGIONS ARE EXPECTED TO REMAIN QUIET AND STABLE, AND THE EASTERN LIMB OF THE SUN SHOWS NO SIGNS OF NEW ACTIVE REGIONS ROTATING ON.
II. GEOPHYSICAL SUMMARY AND FORECAST:
THE GEOMAGNETIC FIELD WAS ACTIVE UNTIL 08/1800UT, BUT IT HAS BEEN VERY QUIET SINCE THEN. NO MAJOR DISTURBANCES IN THE GEOMAGNETIC FIELD ARE EXPECTED, AND THE FIELD IS EXPECTED TO BE ONLY SLIGHTLY UNSETTLED FOR THE NEXT 3 DAYS.
III. EVENT PROBABILITIES: 10-12 MAR
CLASS M 50/50/50
CLASS X 01/01/01
PROTON 01/01/01
PCAF GREEN
IV. OTTAWA 10.7 FLUX
OBSERVED 08 MAR 205
ESTIMATED 09 MAR 198
PREDICTED 10-12 MAR 192/186/183
90 DAY MEAN 09 MAR 204
V. GEOMAGNETIC A INDICES
OBSERVED AFR 07 MAR 17 AP 08 MAR 12
ESTIMATED AFR 08 MAR 09 AFR/AP 09 MAR 02/08
PREDICTED AFR/AP 10-12 MAR 08/08 08/08 08/08
SOLTERWARN
BT

HFUS 3 BOU 092120
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 068B
JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200UT 09 MARCH 1981
1A. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
09/1200UT TO 09/2200UT:
SOLAR ACTIVITY HAS BEEN LOW TO MODERATE. THE MOST SIGNIFICANT EVENT WAS A M1/1B WITH X-RAY MAX AT 1900Z. THE FLARE WAS ASSOCIATED WITH REGION 2971 (N09E27). THE FLARE WAS UNUSUAL; MULTIPLE ERUPTIVE CENTERS WITH VARYING EMISSION BRIGHTNESS TIMES AND A DISAPPEARING FILAMENT (NORTH OF REGION 2971) THAT PRODUCED A QUASI-HYDER FLARE RESPONSE. THE STRONGEST EMISSION WAS IN REGION 2971 WITH THE SECONDARY EMISSION IN THE UNIPOLAR STRUCTURE NORTH OF THE FILAMENT. THE OPTICAL FLARE WAS LONG-LIVED AND THE FILAMENT WAS REFORMING BY 2030Z. REGION 2971 CONTINUES TO GROW IN SUNSPOT/H-ALPHA STRUCTURE AND INCREASING IN MAGNETIC COMPLEXITY.
1B. SOLAR ACTIVITY FORECAST:
SOLAR ACTIVITY IS EXPECTED TO BE LOW TO MODERATE. HOWEVER, CONTINUED GROWTH IN REGION 2971 COULD SUSTAIN A MODERATE LEVEL OF FLARE ACTIVITY.
II. GEOPHYSICAL SUMMARY AND FORECAST:
THE GEOMAGNETIC FIELD HAS BEEN QUIET. THE FIELD IS EXPECTED TO BE QUIET TO UNSETTLED THROUGH THE NEXT THREE DAYS.
III. EVENT PROBABILITIES: 10 - 12 MARCH
CLASS M 50/50/50
CLASS X 01/01/01
PROTON 01/01/01
PCAF GREEN
IV. OTTAWA 10.7 FLUX
OBSERVED 09 MAR 206
PREDICTED 10-12 MAR 204/204/204
90 DAY MEAN 09 MAR 205
V. GEOMAGNETIC A INDICES
OBSERVED AFR/AP 08 MAR 09/12
ESTIMATED AFR/AP 09 MAR 04/05
PREDICTED AFR/AP 10-12 MAR 08/08 08/08 08/08
SOLTERWARN
BT