

HFUS 1 BOU 031300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 154A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1200UT 03 JUNE 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM

02/1200UT TO 03/1200UT:

SOLAR ACTIVITY WAS AT VERY LOW LEVELS DURING THIS PERIOD. THE FOUR SPOTTED REGIONS ON THE SUN PRODUCED A TOTAL OF FIVE C-CLASS EVENTS, THE LARGEST BEING A C2 EVENT AT 03/0055UT. THE CURRENT OTTAWA 10 CM BACKGROUND FLUX (140 FU) IS THE LOWEST VALUE SINCE AUGUST 1980.

IB. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY IS EXPECTED TO BE AT LOW OR VERY LOW LEVELS. NO SIGNIFICANT EAST LIMB ACTIVITY IS PRESENT TO SUGGEST ANY INCREASE IN SOLAR ACTIVITY DURING THE NEXT FEW DAYS. REGION 3134 (N14W24) WILL PROBABLY ACCOUNT FOR MOST OF THE SUBFLARES THAT OCCUR.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS BEEN AT MILDLY UNSETTLED LEVELS. ACTIVE CONDITIONS ON 5-6 JUNE ARE EXPECTED, BASED PRIMARILY ON THE REOCCURRENCE OF MAG ACTIVITY EXPERIENCED AT THIS POINT IN THE LAST THREE SOLAR ROTATIONS.

III. EVENT PROBABILITIES: 4-6 JUNE

CLASS M 10/10/10

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 02 JUNE 140

ESTIMATED 03 JUNE 135

PREDICTED 04-06 JUNE 137/137/139

90 DAY MEAN 02 JUNE 205

V. GEOMAGNETIC A INDICES

OBSERVED AFR 01 JUNE 09 AP 02 JUNE 10

ESTIMATED AFR 02 JUNE 08 AFR/AP 03 JUNE 07/10

PREDICTED AFR/AP 04-06 JUNE 09/12 15/20 20/25

SOLTERWARN

BT

HFUS 3 BQU 032200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLORADO

SDF NUMBER 154B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 0200 UT 03 JUNE 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 03/1200UT TO 03/2200UT. SOLAR ACTIVITY HAS BEEN VERY LOW DURING THE PAST 10 HOURS WITH THE X-RAY FLUX REMAINING BELOW C1 LEVEL. THREE SPOTTED REGIONS HAVE BEEN ADDED TODAY. HOWEVER, ONLY REGION 3145 (S0E60) SHOWS GROWTH TENDENCY WITH BRIGHT PLAGE AND STRONG ARCH FILAMENT SYSTEM.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED. THE IMF AT ISEE-3 HAS BEEN QUITE VARIABLE THE PAST EIGHT HOURS, INDICATING TURBULENCE IN THE SOLAR WIND. THE FIELD IS EXPECTED TO BE MODERATELY UNSETTLED TO ACTIVE DURING THE NEXT 48-60 HOURS.

III. EVENT PROBABILITIES 04 JUNE - 06 JUNE

CLASS M 10/10/10

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 03 JUNE 131

PREDICTED 04-06 JUNE 134/137/140

90-DAY MEAN 03 JUNE 204

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 02 JUNE 08/10

ESTIMATED AFR/AP 03 JUNE 11/12

PREDICTED AFR/AP 04-06 JUNE 12/12 - 15/20 - 20/25

SOLTERWARN

BT