

HFUS 1 ROU 311300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 151A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 1200UT 31 MAY 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM

30/1200UT TO 31/1200UT:

SOLAR ACTIVITY CONTINUES VERY LOW. THE SEVEN SUBFLARES IN THE PAST 24 HOURS HAVE ALL BEEN NEAR THE LOWER LIMITS OF DETECTION. THE THREE PRINCIPAL ACTIVE REGIONS NOW VISIBLE ARE SMALL CLASS C AND D SPOT GROUPS WITH SLOW AND DECLINING EVOLUTIONS. MINOR PROMINENCE ACTIVITY AND A SMALL BRIGHT MOUND ARE REPORTED NEAR N20E90.

IB. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY MAY INCREASE VERY SLIGHTLY AS MINOR REGIONS APPEAR AT EAST LIMB DURING THE NEXT THREE DAYS.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS REMAINED QUIET FOR THE PAST 24 HOURS. NO INCREASE IN ACTIVITY IS EXPECTED IN SPITE OF DISAPPEARING FILAMENTS NEAR THE SOLAR LIMBS AND THE PRESENCE OF SEVERAL SMALL CORONAL HOLES. TRANSIENT ACTIVITY HAS BEEN LACKING NEAR THE CORONAL HOLES, OR HAS OCCURRED TOO FAR FROM THE SOLAR CENTRAL MERIDIAN TO PRODUCE GEOPHYSICAL EFFECTS.

III. EVENT PROBABILITIES: 1 - 3 JUNE

CLASS M 15/20/30

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 30 MAY 164

ESTIMATED 31 MAY 160

PREDICTED 01-03 JUN 165/170/175

90 DAY MEAN 30 MAY 209

V. GEOMAGNETIC A INDICES

OBSERVED AFR 29 MAY 07 AP 30 MAY 09

ESTIMATED AFR 30 MAY 07 AFR/AP 31 MAY 10/10

PREDICTED AFR/AP 01-03 JUN 07/08 05/08 05/13

SOLTERWARN

BT

HEUS 3 BOU 312200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLORADO

SDF NUMBER 151B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 2200 UT 31 MAY 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 31/1200 UT TO 31/2200 UT: SOLAR ACTIVITY HAS BEEN LOW DURING THIS PERIOD. ONLY ONE SMALL C, X-RAY BURST WAS SEEN WITH NO ASSOCIATED OPTICAL REPORT.

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

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN MILDLY UNSETTLED DURING THIS PERIOD. THE FIELD IS EXPECTED TO BE MILDLY UNSETTLED TO QUIET FOR THE NEXT 24 HOURS.

III. EVENT PROBABILITIES 01 JUNE - 03 JUNE

CLASS M 15/20/30

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 31 MAY 152

PREDICTED 01-03 JUNE 154/156/158

90-DAY MEAN 31 MAY 207

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 30 MAY 10/09

ESTIMATED AFR/AP 31 MAY 10/08

PREDICTED AFR/AP 01-03 JUNE 07/08 - 05/08 - 05/13

SOLTERWARN

BT