

HFUS 1 BOU 181300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 169A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 1200UT 18 JUNE 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM

17/1200UT TO 18/1200UT:

SOLAR ACTIVITY HAS BEEN LOW TO MODERATE. THE ONLY SIGNIFICANT EVENT WAS SLOW RISE/DECAY M1 X-RAY EVENT BEGINNING AT 0905Z. MAXIMUM WAS REACHED AT 0959Z WITH OPTICAL FLARE CORRELATION OCCURRING IN REGION 3158 (S23W38). DESPITE ITS NONDESCRIPT, SIMPLE SPOT STRUCTURE, REGION 3158 CONTINUES TO BE A FLARE PRODUCER. REGION 3159 (S26W19) HAS BEEN REPORTED TO HAVE HAD A SLIGHT GROWTH. IT SHARES A COMMON NEUTRAL LINE WITH REGION 3158 AND MAY BE THE TRIGGERING MECHANISM FOR THE FLARE ACTIVITY IN REGION 3158. REGION 3161 (S21W03) CONTINUES TO GROW BUT ITS FLARE OUTPUT HAS BEEN MINIMAL.

IB. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY IS EXPECTED TO BE LOW TO MODERATE.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED. THE FIELD IS EXPECTED TO BE GENERALLY UNSETTLED WITH SHORT PERIODS AT ACTIVE LEVEL ON 21 JUNE.

III. EVENT PROBABILITIES: 19-21 JUN

CLASS M 40/40/40

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 17 JUN 166

ESTIMATED 18 JUN 165

PREDICTED 19-21 JUN 163/160/156

90 DAY MEAN 17 JUN 196

V. GEOMAGNETIC A INDICES

OBSERVED AFR 16 JUN 19 AP 17 JUN 14

ESTIMATED AFR 17 JUN 15 AFR/AP 18 JUN 10/15

PREDICTED AFR/AP 19-21 JUN 10/10 08/08 12/15

SOLTERWARN

BT

HFUS 3 BOU 182200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLORADO

SDF NUMBER 169B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 2200UT 18 JUNE 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 18/1200UT TO 18/2200UT: SOLAR ACTIVITY REMAINS LOW. REGIONS 3161 (S20W10) AND 3165 (N16W77) ARE PRODUCING OCCASIONAL SUBFLARES. REGION 3161 IS INCREASING IN SPOT NUMBER BUT SIMPLIFYING MAGNETICALLY WHILE 3165 IS GROWING IN SPOT AREA BUT DECREASING IN SPOT NUMBER. BOTH REGIONS ARE BETA TYPES MAGNETICALLY.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN GENERALLY LOW WITH AN ISOLATED M-EVENT POSSIBLE.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD IS UNSETTLED. QUIET TO UNSETTLED CONDITIONS SHOULD PERSIST FOR THE NEXT 24 HOURS.

III. EVENT PROBABILITIES 19 JUNE - 21 JUNE

CLASS M 40/40/40

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 18 JUNE 165

PREDICTED 19-21 JUNE 163/160/156

90-DAY MEAN 18 JUNE 196

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 17 JUNE 13/14

ESTIMATED AFR/AP 18 JUNE 09/12

PREDICTED AFR/AP 19-21 JUNE 10/10 - 08/08 - 12/15

SOLTERWARN

BT