

HFUS3 BOU 202200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 201

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 20 JUL 1985

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 19/2100 TO 20/2100Z: SOLAR ACTIVITY HAS BEEN VERY LOW FOR THE PAST 24 HOURS. REGION 4677(S14E13) HAS DECLINED IN AREA. THIS CSO TYPE SPOT GROUP HAS A BETA MAGNETIC CLASSIFICATION. NO NEW REGIONS WERE NUMBERED TODAY. A SIX DEGREE LONG FILAMENT AT S07W60 WAS SEEN TO DISAPPEAR BY 1920UT 19 JULY. SURGING WAS REPORTED AT S12E90. A LOOP SHAPED PROMINENCE WAS OBSERVED AT N38E90. WEAK TYPE II AND TYPE IV RADIO BURSTS WERE RECORDED IN THE PERIOD 2354UT 19 JULY TO 0022UT 20 JULY. NO FLARES WERE OBSERVED.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE VERY LOW FOR THE NEXT 72 HOURS. NO REGIONS ARE DUE TO RETURN.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 19/2100Z TO 20/2100Z: THE GEOMAGNETIC FIELD HAS BEEN QUIET TO UNSETTLED FOR THE PAST 24 HOURS. A BRIEF PERIOD OF MINOR STORM AT HIGH LATITUDES WAS OBSERVED 1500-2000UT 20 JULY.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE UNSETTLED TO ACTIVE FOR THE NEXT 72 HOURS. ACTIVITY IS PREDICTED TO INCREASE IN RESPONSE TO THE EFFECTS OF THE PASSAGE OF A WELL DEFINED SOLAR SECTOR BOUNDARY PAST THE CENTRAL MERIDIAN 15 JULY.

III. EVENT PROBABILITIES 21 JUL-23 JUL

CLASS M 01/01/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 20 JUL 069

PREDICTED 21 JUL-23 JUL 069/069/069

90 DAY MEAN 20 JUL 080

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 19 JUL 009/013

ESTIMATED AFR/AP 20 JUL 008/014

PREDICTED AFR/AP 21 JUL-23 JUL 010/015-012/015-012/020

SOLTERWARN

BT