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HFUS 1 BOU 181300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 230A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 18 AUG 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 17/1200Z TO 18/1200Z: SOLAR ACTIVITY INCREASED BRIEFLY TO THE MODERATE LEVEL WITH THE OCCURRENCE OF AN M1/1B FLARE FROM REGION 3867 (S13E68) AT 17/1521Z MAXIMUM. MINOR DISCRETE FREQUENCY RADIO BURSTS AND SHORT WAVE FADES TO 12MHZ WERE OBSERVED WITH THIS EVENT. THIS REGION ALSO PRODUCED A C7/1N AT 18/0755Z MAXIMUM BUT WITH NO RADIO RESPONSE. ANALYSIS OF THIS SPOT GROUP HAS BEEN LIMITED DUE TO LIMB PROXIMITY, BUT INDICATIONS ARE THAT IT IS A SMALL E-TYPE GROUP WITH A SIMPLE NORTH-SOUTH NEUTRAL LINE. REGION 3856 (S11W39) REMAINS THE MOST COMPLEX SPOT GROUP ON THE DISK, BUT HAS ONLY MANAGED A C5/SB FLARE AT 18/0107Z MAXIMUM. SLOW GROWTH HAS BEEN NOTED HERE IN RECENT HOURS. REGIONS 3862 (N26E33) AND 3864 (N14W53) CONTINUE TO PRODUCE INFREQUENT SUBFLARES AS THEIR MODERATE GROWTH PERSISTS. A NEW REGION HAS EMERGED AT N20W34 (NUMBERED 3868) EXHIBITING ARCH FILAMENTS AND A B-TYPE SPOT GROUP. A SMALL C2/SN FLARE WAS OBSERVED HERE AT 18/0349Z MAXIMUM.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE GENERALLY LOW, HOWEVER, ISOLATED M-CLASS FLARES ARE A POSSIBILITY FROM THE 3856 COMPLEX AND THE 3867 SPOT GROUP.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD VARIED FROM ACTIVE CONDITIONS EARLY IN THE PERIOD TO NEAR QUIET LEVELS DURING RECENT HOURS. UNSETTLED CONDITIONS ARE FORECAST THROUGH THE NEXT 24 HOURS FOLLOWED BY ACTIVE LEVELS FOR THE REMAINDER OF THE FORECAST PERIOD IN RESPONSE TO A CORONAL HOLE NOW MOVING INTO A FAVORABLE SUN-EARTH CONNECTION LONGITUDE.

III. EVENT PROBABILITIES 19 AUG-21 AUG

CLASS M 25/25/25

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 17 AUG 161

ESTIMATED 18 AUG 161

PREDICTED 19 AUG-21 AUG 160/155/148

90 DAY MEAN 17 AUG 163

V. GEOMAGNETIC A INDICES

OBSERVED AFR 16 AUG 006 AP 17 AUG 017

ESTIMATED AFR 17 AUG 013 AFR/AP 18 AUG 013/015

PREDICTED AFR/AP 19 AUG-21 AUG 015/015-020/020-020/015

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HFUS 3 BOU 182200  
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 230B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.  
ISSUED 2200Z 18 AUG 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM  
18/1200Z TO 18/2100Z: SOLAR ACTIVITY WAS LOW DURING THIS PERIOD.  
AT 1458Z A C5/1B FLARE OCCURRED IN REGION 3867 (S12E66). A C8  
XRAY EVENT OCCURRED AT 1911Z AND SEVERAL OTHER C CLASS EVENTS  
OCCURRED DURING THE PERIOD. REGIONS 3856 (S11W46) AND 3862  
(N25E26) HAD ARCH FILAMENT SYSTEMS AND GREW SIGNIFICANTLY IN  
WHITE LIGHT AREA. MAGNETICALLY 3856 DEVELOPED INTO A BETA  
GAMMA DELTA, BUT THE MAGNETIC GRADIENT DECREASED. REGIONS 3864  
(N15W60) AND 3867 (S12E66) ALSO SHOWED GROWTH IN WHITE LIGHT  
AREA.

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

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD WAS  
ACTIVE TODAY. IT IS EXPECTED TO REMAIN ACTIVE THROUGHOUT THE  
PERIOD.

III. EVENT PROBABILITIES 19 AUG-21 AUG

CLASS M	25/25/25
CLASS X	01/01/01
PROTON	01/01/01
PCAF	GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED	18 AUG	164
PREDICTED	19 AUG-21 AUG	165/160/155
90 DAY MEAN	18 AUG	168

V. GEOMAGNETIC A INDICES

OBSERVED	AFR/AP 17 AUG	016/017
ESTIMATED	AFR/AP 18 AUG	016/020
PREDICTED	AFR/AP 19 AUG-21 AUG	015/015-020/020-020/015

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