

HFUS 1 BOU 011300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 152A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 01 JUN 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 31/1200Z TO 01/1200Z: SOLAR ACTIVITY HAS BEEN LOW. ALL FLARES OBSERVED DURING THE PAST 24 HOURS HAVE BEEN SUBFLARES PRODUCING C-CLASS XRAY EMISSION. THE MOST SIGNIFICANT EVENT WAS A C1 FLARE AT 0656Z MAXIMUM WHICH WAS FOLLOWED BY TYPE II AND TYPE IV SWEEP-FREQUENCY RADIOMETER BURSTS. MINOR DISCRETE FREQUENCY RADIO BURSTS WERE ALSO RECORDED WITH THIS EVENT. A SMALL LOOP PROMINENCE SYSTEM WAS OBSERVED AT S18W90 (LOCATION OF ROTATING REGION 3751) AT 0821Z, INDICATING THIS REGION PRODUCED THE EVENT. REGION 3759 (N09E66) WAS RESPONSIBLE FOR THE MAJORITY OF THE REMAINING C-CLASS EVENTS OBSERVED. THIS REGION HAS SHOWN SOME SLOW GROWTH. THE REMAINING DISK REGIONS ARE ALL SIMPLE AND DECAYING.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO CONTINUE AT THE PRESENT LOW LEVEL.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD REMAINED ACTIVE FOR YET ANOTHER 24 HOUR PERIOD, EXTENDING THE CORONAL HOLE RELATED DISTURBANCE FOR AN UNEXPECTED FIVE DAY PERIOD. HIGH SOLAR WIND SPEEDS (700 PLUS KM/SEC) RECORDED BY THE ISEE-3 SPACECRAFT INDICATE THIS ACTIVITY SHOULD CONTINUE FOR APPROXIMATELY ANOTHER SIX HOURS BEFORE UNSETTLED CONDITIONS BECOME THE DOMINANT LEVEL OF THE FIELD. UNSETTLED TO QUIET CONDITIONS ARE THEN EXPECTED FOR THE REMAINDER OF THE FORECAST PERIOD.

III. EVENT PROBABILITIES 02 JUN-04 JUN

CLASS M 30/20/20

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 31 MAY 133

ESTIMATED 01 JUN 130

PREDICTED 02 JUN-04 JUN 128/126/125

90 DAY MEAN 31 MAY 172

V. GEOMAGNETIC A INDICES

OBSERVED AFR 30 MAY 025 AP 31 MAY 035

ESTIMATED AFR 31 MAY 026 AFR/AP 01 JUN 222/025

PREDICTED AFR/AP 02 JUN-04 JUN 014/015-008/010-008/010

SOLTERWARN

BT

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NNNNZCVZEZGVZLVZOUU

KBOH

HFUS 3 BOU 012200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 152B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 01 JUN 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM  
0 /1200Z TO 0 /2100Z: SOLAR ACTIVITY HAS BEEN LOW FOR THIS  
PERIOD.

THE LARGEST EVENT OF THE DAY HAS BEEN C5/1N FLARE AT 1804Z FROM  
REGION 3752(S15W21). THIS IS A VERY SMALL DECAYING REGION WITH  
MINOR FILAMENTS IN ASSOCIATION. MINOR GROWTH IS OCCURRING IN  
REGION 3759(N08E59) WHICH NOW IS A SMALL CLASS D GROUP. IT IS  
THE SOUTHERN PART OF AN ACTIVITY COMPLEX WHICH NOW INCLUDES  
REGIONS 3761(N14E63) AND 3762(N19E67). ANOTHER SMALL REGION  
HAS NOW ROTATED INTO VIEW AT 809E90) REGION 3763).

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO  
REMAIN LOW BUT WITH INCREASING ACTIVITY AS THE NE COMPLEX  
DEVELOPS SLOWLY. NO MAJOR FLARES ARE EXPECTED IN THE  
FORESEEABLE FUTURE.

II. GEOPHYSICAL SUMMARY AND FORECAST: GEOMAGNETIC ACTIVITY HAS  
CONTINUED UNSETTLED TO ACTIVE AS THE SOLAR WIND VELOCITY NEAR  
EARTH CONTINUES ENHANCED. CONDITIONS ARE EXPECTED TO GRADUALLY  
BECOME LESS ACTIVE THROUGHOUT THE NEXT THREE DAYS, WITH QUIET  
CONDITIONS PREVAILING TOWARD THE END OF THE PERIOD.

III. EVENT PROBABILITIES 02 JUN-04 JUN

CLASS M 30/20/20

CLASS X 01/01/01

PROTON 01/0 /01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 01 JUN 130

PREDICTED 02 JUN-04 JUN 130/135/140

0 DAY MEAN 01 JUN 171

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 31 MAY 035/035

ESTIMATED AFR/AP 01 JUN 015/022

PREDICTED AFR/AP 02 JUN-04 JUN 014/015-008/010-008/010

SOLTERWARM

BT

NNNNZSO