

HFUS 1 BOU 290600  
FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO  
SDF NUMBER 180A  
JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 0600Z 29 JUNE 1973.

IA. SOLAR ACTIVITY HAS BEEN MODERATE THUS FAR TODAY, WITH AN  
X-RAY CLASS C8 SUBNORMAL FLARE IN RGN 150(S13W50) AT 0156Z  
AND ANOTHER C8 SUBNORMAL IN NEW RGN 158(N10E90) AT 0334Z. TYPE  
III DEKAMETRIC BURSTS, A MINOR SWF, AND VERY SMALL CENTEMETRIC  
BURSTS ACCCOMPANIED THE 0156Z EVENT.

- IB. NO CHANGE
- II. NO CHANGE
- III. NO CHANGE
- IV. NO CHANGE
- V. NO CHANGE

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HFUS 1 BOU 291300

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 180B

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 1300Z 29 JUNE 1973.

IA. SOLAR ACTIVITY HAS BEEN MODERATE, WITH THE EAST LIMB THE AREA OF GREATEST INTEREST. ERUPTIVE PROMINENCES HAVE BEEN REPORTED AT N10, S10, S15, AND S22; A SPRAY WAS OBSERVED AT S06, AND NUMEROUS SURGES HAVE OCCURRED IN THESE AREAS. THE MAJORITY OF THIS ACTIVITY CAN BE ATTRIBUTED TO REGIONS 157(S06E71) AND 158(N10E87). C CLASS SUBFLARES HAVE ORIGINATED IN THESE AREAS ( MAX AT 0555Z AND 0334Z RESPECTIVELY), THAT ALSO HAD MINOR IONOSPHERIC EFFECTS ACCOMPANY THEM. SEVERAL OTHER SUBFLARES HAVE BEEN REPORTED, WITH A C-8 AT 0210Z FROM REGION 150(S12W51) BEING THE MOST NOTEWORTHY. THIS FLARE GENERATED RADIO AND IONOSPHERIC EFFECTS ALSO. THE REMAINDER OF THE DISK AND THE WEST LIMB HAVE BEEN QUIET.

IB. SOLAR ACTIVITY WILL BE MODERATE AS REGIONS 157 AND 158 ROTATE TOWARD THE CENTER OF THE DISK. THERE IS AN INCREASING CHANCE OF ENERGETIC ACTIVITY AS THESE REGIONS CONTINUE TO EVOLVE.

II. THE GEOMAGNETIC FIELD HAS EXHIBITED STORM CHARACTERISTICS, AS THE RECURRENT DISTURBANCE MAKES ITS PRESENCE FELT. K-INDICES OF SIX AND FIVE WERE OBSERVED DURING LOCAL NIGHTTIME, AS THIS SHOULD CONTINUE TO THE PERIOD OF THE GREATEST DISTURBANCES. THE FIELD SHOULD REMAIN ACTIVE TO MINOR STORM LEVEL THROUGHOUT THE FORECAST PERIOD.

III. EVENT PROBABILITIES 29 JUN - 01 JUL

CLASS M 40/45/50

CLASS X 01/05/05

PROTON 01/02/02

PCAF GREEN

IV. OTTAWA 10.7CM FLUX

OBSERVED 28 JUN 92

PREDICTED 29 JUN - 01 JUL 91/90/91

90-DAY MEAN 28 JUN 98

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 27 JUN 04

ESTIMATED 28 JUN 16

PREDICTED 29 JUN-01 JUL 23/24/25

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HFUS BOU 292200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 180

JOINT AFGWC/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 2200Z 29 JUNE 1973.

IA. SOLAR ACTIVITY IS MODERATE BASED ON FREQUENCY OF FLARES  
AND SURGES/EJECTA FROM REGION 157 (S06E67) AND 158 (N13E74).  
REGION 157 HAS A BIPOLE SUNSPOT STRUCTURE. FLARES IN THIS  
REGION HAVE BEEN ON THE EAST SIDE OF THE NEUTRAL LINE AND HAVE  
BEEN ASSOCIATED WITH HIGH SPEED EJECTA. ASSOCIATED RADIO  
BURSTS HAVE BEEN MODERATE IN THE METRIC/DEKAMETRIC RANGE AND  
WEAK CENTIMETRIC. THE STRONGEST RESPONSE FROM THIS REGION WAS  
WITH A SB/M1 AT 1515Z. THE STRONGEST EVENT FROM REGION 158 WAS  
A SN/M5 AT 1950Z WITH 2700 MHZ BURST OF 80F.U. NO DEKAMETRIC  
EMISSION OCCURRED WITH THIS FLARE. BOTH THESE REGIONS ARE  
TOO CLOSE TO THE LIMB FOR ACCURATE ANALYSIS, BUT CURRENT  
ACTIVITY WOULD SUGGEST BOTH ARE MAGNETICALLY COMPLEX.

IB. CLASS M ACTIVITY IS EXPECTED TO CONTINUE FROM REGIONS  
157 & 158. REGION 150 (S12W59) COULD PRODUCE A CLASS M EVENT  
IF THE ASSOCIATED FILAMENT ACTIVATES A FLARE RESPONSE.

II. THE GEOMAGNETIC FIELD HAS BEEN ACTIVE AND IS EXPECTED  
TO CONTINUE ACTIVE THROUGH 01 JULY.

III. EVENT PROBABILITIES 30 JUN - 02 JUL.

CLASS M 75/75/75

CLASS X 05/05/07

PROTON 05/05/05

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX.

OBSERVED 29 JUN 92

PREDICTED 30 JUN - 02 JUL 93/94/94

90-DAY MEAN 29 JUN 98

V. GEOMAGNETIC A INDICES.

OBSERVED FREDERICKSBURG 28 JUN 17

ESTIMATED 29 JUN 23

PREDICTED 30 JUN - 02 JUL 27/19/08

SOLTERWARN

SPAN

BT