

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 ACCOMPANIED THE 0156Z EVENT.

IB. NO CHANGE

II. NO CHANGE

III. NO CHANGE

IV. NO CHANGE

V. NO CHANGE

SOLTERWARN

SPAN

BT

NNNN

KBOU

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 THROUGH-
OUT 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

SOLTERWARN

SPAN

BT

NNNN

KBOU

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 BIPOLAR 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