

#NNNN

HHVJJ

KBOU

HOUS 2 BOU 200200

JOINT AESU/SESC SOLAR REGION AND ACTIVITY SUMMARY ISSUED AT
20/0200Z FEBRUARY 1973

I. SUNSPOT DATA FROM BOULDER AT 19/2105Z

NMBR LOCATION LO AREA Z LL NN MAG-TYPE

034 S17W40 307 0220 D 08 09 BETA

041 S15E04 263 0000 A 02 04 ALPHA

II. IMPORTANCE ONE OR GREATER FLARES AND ENERGETIC EVENTS-

RGN IMP BEGIN MAX END CLASS

037 1B 19/0609 0625Z 0739Z

III. AREAS OF SPECIAL INTEREST-

NONE.

SOLTERWARN

SPAN

BT

NNNN

KBOU

HOUS 1 BOU 200600

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 0510

JOINT AESU/SESQ PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 0600Z 20 FEBRUARY 1973

IA. NO CHANGE

IB. NO CHANGE

II. NO CHANGE

III. NO CHANGE

IV. NO CHANGE

V. NO CHANGE

SOLTERWARN

SPANBT

KBOU

HFUS 1 BOU 201300

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 051B

JOINT AESU/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 1300Z 20 FEBRUARY 1973

IA. SOLAR ACTIVITY HAS BEEN LOW. THE EXISTING DISK REGIONS APPEAR STABLE WITH THE EXCEPTION OF A SMALL ARCH FILAMENT SYSTEM IN 041 (S15W10). A SMALL NEW REGION IS EMERGING AT N10W71. NEITHER OF THESE REGIONS IS FAVORABLY SITUATED FOR DEVELOPMENT INTO MAJOR ACTIVE CENTERS.

IB. A CONTINUED LOW ACTIVITY LEVEL IS EXPECTED.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET. SUBSTORM ACTIVITY THE PAST 13 HOURS HAS BEEN WEAK OR NONEXISTENT. THE VERY QUIET NATURE OF THE GEOMAGNETIC FIELD IS ONE STATISTICALLY ASSOCIATED WITH A DEPRESSION OF ACTIVITY JUST PRIOR TO PASSAGE OF A SECTOR BOUNDARY. HELIOCENTRIC SATELLITE DATA CONFIRMS THE EXISTENCE OF AN ENHANCED SOLAR WIND STREAM DUE TO PASS THE EARTH LATER TODAY OR TOMORROW. HENCE AN UNSETTLED-TO-ACTIVE PERIOD IS EXPECTED FOR THE NEXT THREE DAYS.

III. EVENT PROBABILITIES 20 FEB - 22 FEB

CLASS M 10/10/10

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 19 FEB 091

PREDICTED 20-22 FEB 090/089/089

90-DAY MEAN 19 FEB 102

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 18 FEB 07

ESTIMATED 19 FEB 08

PREDICTED 20-22 FEB 05/12/10

SOLTERWARN

SPAN

BT

NNNN

KBOU

HFUS BOU 202200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 051

JOINT AESU/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 20 FEBRUARY 1973.

IA. SOLAR ACTIVITY CONTINUES VERY LOW WITH SEVEN SMALL, NON-
ENERGETIC SUBFLARES REPORTED FROM SEVERAL SMALL REGIONS. REGION
041 (S18W11) HAS SHOWN CONSIDERABLE SPOT GROWTH DURING THE LAST
24 HOURS AND PRODUCED TWO SUBFLARES. A STRONG ARCH FILAMENT
SYSTEM IS EMBEDDED IN THIS REGION. HOWEVER, THE REGION REMAINS
MAGNETICALLY SIMPLE WITH A BETA CLASSIFICATION. REGION 042
(N08W81) DEVELOPED OVERNIGHT AND PRODUCED 2 SUBFLARES DURING THE
LAST 12 HOURS, BUT ITS PROXIMITY TO THE LIMB PREVENTS DETAILED
ANALYSIS.

IB. SOLAR ACTIVITY IS EXPECTED TO REMAIN VERY LOW DURING THE
FORECAST PERIOD, ALTHOUGH SOME SUBFLARE ACTIVITY IS LIKELY FROM
REGION 041.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET DURING THE LAST 24 HOURS.
AN EXPECTED SECTOR BOUNDARY PASSAGE EARLY IN THE FORECAST PERIOD
SHOULD PRODUCE UNSETTLED CONDITIONS.

III. EVENT PROBABILITIES 21 FEB - 23 FEB.

CLASS M 10/10/10

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX.

OBSERVED 20 FEB 091

PREDICTED 21 FEB - 23 FEB 091/091/091

90-DAY MEAN 20 FEB 103

V. GEOMAGNETIC A INDICES.

OBSERVED FREDERICKSBURG 19 FEB 08

ESTIMATED 20 FEB 05

PREDICTED 21 FEB - 23 FEB 12/10/10

SOLTERWARN

SPAN

BT

NNNN