

NNNN

KBOU

HOUS 2 BOU 170200

JOINT AFGWC/SESC SOLAR REGION AND ACTIVITY SUMMARY ISSUED AT
17/0200Z SEPT 1973.

I. REGIONS WITH SUNSPOTS. SUNSPOT DATA FROM RAMEY TAKEN AT
16/1115Z. LOCATIONS VALID AT 17 SEPT 0000Z.

NMBR LOCATION LO AREA Z LL NN MAG TYPE

0227 N16E55 326 0050 C 06 02 BETA

0229 N13W32 053 0000 A 00 01 ALPHA

0230 S04E05 016 0000 A 00 01 ALPHA

MAGNETIC CLASSIFICATION FROM RAMEY

IA. H-ALPHA PLAGES WITHOUT SPOTS. LOCATIONS VALID AT 17 SEPT 0000Z

NMBR LOCATION LO

0226 S11E40 341

0228 S12E60 322

II. NONE.

III. NONE.

SOLTERWARN

SPAN

BT

HFUS 1 BOU 170600

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 260A

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 0600Z 17 SEPTEMBER 1973

IA. SOLAR ACTIVITY REMAINS AT A VERY LOW LEVEL. ONE NON-ENERGETIC
SUBFLARE HAS BEEN OBSERVED DURING THE PAST 8 HOURS. REGION 227 (N14E59)
HAS SHOWN SLIGHT GROWTH. OTHER REGIONS ARE STABLE.

IB. NO MAJOR SOLAR ACTIVITY IS EXPECTED.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET BUT IS EXPECTED TO BECOME
UNSETTLED DURING THIS ZULU DAY.

III. NO CHANGE

IV. NO CHANGE

V. NO CHANGE

SOLTERWARN

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SPACE DISTURBANCE

SEP 17 1973

FORECAST CENTER

NNNN

KBOU

HFUS 1 BOU 171300

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 260B

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 1300Z 17 SEPTEMBER 1973

IA. SOLAR ACTIVITY REMAINS AT A VERY LOW LEVEL WITH NO FLARES OBSERVED
DURING THE LAST 8 HOURS. ALL REGIONS ARE STABLE.

IB. NO MAJOR SOLAR ACTIVITY IS EXPECTED.

II. THE GEOMAGNETIC FIELD HAS FLUCTUATED BETWEEN QUIET AND ACTIVE
DURING THE PAST 24 HOURS AND IS EXPECTED TO BE UNSETTLED DURING THE
NEXT 24 HOURS.

III. EVENT PROBABILITIES 17 SEP - 19 SEP

CLASS M 10/10/10

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 16 SEP 83

PREDICTED 17 SEP - 19 SEP 84/86/89

90-DAY MEAN 16 SEP 90

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 15 SEP 09

ESTIMATED 16 SEP 10

PREDICTED 17 SEP - 19 SEP 12/14/20

SOLTERWARN

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HFUS BOU 172200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 260

JOINT AFGWC/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 17 SEPT 1973

IA. OPTICAL ACTIVITY ON THE SUN HAS REMAINED VERY LOW, WITH ONLY INFREQUENT SUBFLARE ACTIVITY. HOWEVER, A TYPE II/IV RADIO EVENT AT 17/1510Z INDICATED SOME ENERGETIC ACTIVITY WAS OCCURRING ON THE INVISIBLE DISK. CONCURRENT ACTIVITY IN FAINT PROMINENCES ON THE EAST LIMB AT S24-S30 WAS ALSO REPORTED. THOUGH THE PROMINENCES DO NOT LIE NEAR ANY PREVIOUSLY KNOWN ACTIVE REGIONS, IN ALL PROBABILITY, THEY SHOULD HAVE DIRECT MAGNETIC CONNECTION TO THE OLD ACTIVE REGION 213 THAT WAS THE PROBABLE SOURCE OF A CLASS XI EVENT ON 6 SEPTEMBER, AFTER IT HAS CROSSED WEST LIMB. ACTIVE REGION 213 IS NOT DUE TO RETURN UNTIL 19 SEPT. THE EXTRAPOLATED VELOCITY OF THE TYPE II SOURCE WAS ABOUT 900 KM/SEC - HIGHER THAN THE USUAL VELOCITY OF ERUPTIVE PROMINENCES. OF THE PRESENT DISK REGIONS, SLOW GROWTH CONTINUES ONLY IN REGION 227 (N15E43), WHICH REMAINS SIMPLY STRUCTURED THOUGH ITS LONG NORTH-SOUTH EXTENT MAKES IT VULNERABLE TO THE EFFECTS OF DIFFERENTIAL ROTATION.

IB. CONTINUED LOW ACTIVITY LEVELS ARE EXPECTED, WITH SMALL FLARES MOST PROBABLE FROM REGION 227, UNTIL 19 SEPT, WHEN REGION 213 OR SOME NEW ACTIVE CENTER MAY ROTATE INTO VIEW.

II. THE GEOMAGNETIC FIELD HAS BEEN UNSETLED. INCREASING LEVELS OF DISTURBANCE ARE EXPECTED THROUGH 20 SEPT, WHEN MID-LATITUDE A VALUES ARE EXPECTED TO EXCEED 20. IF THE 17/1510Z EVENT WAS NEAR THE SOLAR LIMB, A NOMINAL TRANSIT TIME TO EARTH WOULD BE 65-70 HOURS. AT THAT TIME, A SMALL SUDDEN COMMENCEMENT FOLLOWED BY A NEGIGIBLE DISTURBANCE COULD BE EXPECTED. SUCH DISTURBANCE SHOULD BE MASKED BY THE EXPECTED RECURRENT EVENT.

III. EVENT PROBABILITIES 18 SEPT - 20 SEPT

CLASS M 10/15/25

CLASS X 01/02/05

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 17 SEPT 81

PREDICTED 18-20 SEPT 83/85/88

90-DAY MEAN 17 SEPT 90

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 16 SEPT 12

ESTIMATED 17 SEPT 08

PREDICTED 18-20 SEPT 10/18/20

SOLTERWARN

SPAN

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HOUS 2 BOU 180200

JOINT AFGWC/SESC SOLAR REGION AND ACTIVITY SUMMARY ISSUED AT
17/0200 SEPT 1973.

I. REGIONS WITH SUNSPOTS. SUNSPOT DATA FROM CANARY IS. TAKEN AT
17/1015. LOCATIONS VALID AT 18 SEPT 0000Z.

NMBR LOCATION LO AREA Z LL NN MAG TYPE

0227 N15E42 326 0060 C 06 05 BETA

0230 S04W08 016 0000 A 00 01 BETA

IA. NONE.

II. NONE.

III. NONE.

SOLTERWARN

SPAN

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