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KBOU

HOURS 2 BOU 220200

JOINT AFGWC/SESC SOLAR REGION AND ACTIVITY SUMMARY ISSUED AT
220200 DEC 1973.

I. REGIONS WITH SUNSPOTS. SUNSPOT DATA FROM BOULDER TAKEN AT
211210. LOCATIONS VALID AT 22 DEC 0000Z.

NMBR LOCATION LO AREA Z LL NN MAG TYPE

0299 N09W06 201 0020 N 01 01 ALPHA

0300 S16E03 192 0540 E 11 44 BETA GAMMA DELTA

0303 S13W22 217 0005 A 00 01 ALPHA

IA. H-ALPHA PLAGES WITHOUT SPOTS. LOCATIONS VALID AT 22 DEC 0000Z.

NMBR LOCATION LO

0297 S15W51 246

0301 S10E04 191

0302 S13E39 156

0304 S16W18 212

II. IMPORTANCE ONE OR GREATER FLARES AND ENERGETIC EVENTS-

RGN IMP BEGIN MAX END CLASS

300 IN 21/0416Z 0423Z 0448Z -

III. AREAS OF SPECIAL INTEREST-

REGION 300 HAS BEEN DECAYING VERY RAPIDLY LAST FEW HOURS.

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HFUS 1 BOU 220600

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 356A

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 0600Z 22 DECEMBER 1973

IA. SOLAR ACTIVITY HAS BEEN LOW DURING THE PAST 8 HOURS. REGION 300
(S18E01) HAS SIMPLIFIED IN STRUCTURE AND HAS DECLINED IN SIZE.
SEVERAL NON-ENERGETIC SUBFLARES HAVE BEEN OBSERVED. THE REST OF THE
DISK AND THE LIMBS ARE STABLE.

IB. NO MAJOR ACTIVITY IS EXPECTED. A FEW NON-ENERGETIC SUBFLARES
FROM REGION 300 IS ABOUT ALL THAT IS EXPECTED.

II. THE MINOR GEOMAGNETIC STORM CONTINUES BUT WILL REMAIN AT MINOR
LEVEL.

III. NO CHANGE.

IV. NO CHANGE.

V. NO CHANGE.

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HFUS 1 BOU 221300

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 356B

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 1300Z 22 DECEMBER 1973

IA. SOLAR ACTIVITY HAS BEEN LOW DURING THE PAST 24 HOURS WITH EIGHT C-CLASS SUBFLARES REPORTED, ALL FROM REGION 300 (S16W04). THIS REGION APPEARS TO HAVE STABILIZED FOR THE MOMENT. THERE ARE SOME SIGNS OF SIMPLIFICATION IN THE REGION BUT IT STILL APPEARS CAPABLE OF PRODUCING A MODERATELY ENERGETIC FLARE OR TWO. THE REGION DOES NOT CURRENTLY APPEAR CAPABLE OF PRODUCING A MAJOR FLARE. OTHER REGIONS ARE UNIMPRESSIVE.

IB. REGION 300 CAN BE EXPECTED TO PRODUCE OCCASIONAL SUBFLARES AND PERHAPS ONE OR TWO SMALL M-CLASS FLARES DURING THE FORECAST PERIOD.

II. THE GEOMAGNETIC FIELD IS STILL ACTIVE AND TRENDING TOWARD LESS ACTIVE STATUS.

III. EVENT PROBABILITIES 22 DEC - 24 DEC

CLASS M 50/50/50

CLASS X 10/10/10

PROTON 03/04/05

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 21 DEC 101

PREDICTED 22 DEC - 24 DEC 101/99/97

90-DAY MEAN 21 DEC 86

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 20 DEC 20

ESTIMATED AFR/AP 21 DEC 25/33

PREDICTED AFR/AP 22 DEC - 24 DEC 20/24 - 11/12 - 05/06

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HFUS BOU 222200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 356

JOINT AFGWC/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 22 DEC 1973

IA. SOLAR ACTIVITY HAS BEEN VERY LOW. REGION 300 (S18W10) NO
LONGER CONTAINS A DELTA MAGNETIC CONFIRUGATION, AND MAGNETOGRAMS
SHOW CONSIDERABLE SIMPLIFICATION HERE FROM 1500 TO 1900Z. SMALL
NEW BIPOLAR SPOTS (RGN 305) HAVE APPEARED AT S15W27 IN THE
COMPLEX INCLUDING REGIONS 303 AND 304.

IB. SOLAR ACTIVITY IS EXPECTED TO REMAIN VERY LOW, WITH A POSSIBLE
OCCASIONAL LOW CLASS C X-RAY FLARE DURING THE DECLINE OF REGION
300.

II. THE GEOMAGNETIC FIELD HAS BEEN ACTIVE. UNSETTLED CONDITIONS
ARE EXPECTED FOR THE NEXT 24 HOURS, FOLLOWED BY A QUIET FIELD FOR
THE REST OF THE FORECAST PERIOD.

III. EVENT PROBABILITIES 23 DEC - 25 DEC

CLASS M 45/35/25

CLASS X 05/03/02

PROTON 02/02/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 22 DEC 102

PREDICTED 23 DEC-25 DEC 98/96/94

90-DAY MEAN 22 DEC 86

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 21 DEC 25

ESTIMATED AFR/AP 22 DEC 14/16

PREDICTED AFR/AP 23 DEC-25 DEC 10/11 - 05/06 - 05/06

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