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HOUS 2 BOU 170200

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

I. REGIONS WITH SUNSPOTS. SUNSPOT DATA FROM CANARY ISLAND TAKEN
AT 16/1040Z. LOCATIONS VALID AT 17 DEC 0000Z.

NMBR LOCATION LO AREA Z LL NN MAG TYPE

0296 N01W44 305 0020 A 02 01 ALPHA

0299 N09E64 197 0050 H 05 01 ALPHA

0300 S17E75 186 0100 D 10 02 BETA

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

NMBR LOCATION LO

0297 S14E12 250

0298 S11W87 349

II. IMPORTANCE ONE OR GREATER FLARES AND ENERGETIC EVENTS-

RGN	IMP	BEGIN	MAX	END	CLASS
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300	1N	16/0736Z	0752Z	0858Z	M-1S
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300	1N	16/0938Z	0948Z	1006Z	-
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300	1F	16/0546Z	-	0617Z	-
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300	SB	16/1110Z	1117Z	1133Z	M-3
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III. AREAS OF SPECIAL INTEREST-

REGION 300 IS RELATIVELY DYNAMIC AND MAY CONTAIN AN EAST-WEST
NEUTRAL LINE.

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HFUS 1 BOU 170600
FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO
SDF NUMBER 351A
JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 0600Z 17 DECEMBER 1973
IA. SOLAR ACTIVITY HAS BEEN LOW DURING THE PAST 8 HOURS. ONLY A FEW
NON-ENERGETIC SUBFLARES HAVE BEEN OBSERVED. THE LIMBS HAVE BEEN
QUIET.
IB. NO MAJOR ACTIVITY IS EXPECTED DURING THE NEXT 7 HOURS. A FEW
SMALL CLASS M FLARES CAN BE EXPECTED FROM REGION 300 (S17E72). THE
REST OF THE DISK IS QUIET AND STABLE.
II. THE GEOMAGNETIC FIELD HAS BEEN QUIET DURING THE PAST 8 HOURS.
THE FIELD IS EXPECTED TO REMAIN QUIET DURING THE NEXT 24 HOURS.
III. NO CHANGE.
IV. NO CHANGE.
V. NO CHANGE.
SOLTERWARN
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HFUS 1 BOU 171300

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO.

SDF NUMBER 351B

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

IA. SOLAR ACTIVITY HAS REMAINED LOW DURING THE PAST SEVEN HOURS, AND ONLY MINOR SUBFLARES AND SURGES HAVE BEEN OBSERVED IN REGION 300 (S17E69). THE MOST ENERGETIC X-RAY BURST REPORTED WAS A CLASS C-4 EVENT PRODUCED BY A SUBFAINT FLARE IN REGION 300 AT 17/0742Z. REGION 300 CONTAINS AN ARCH-FILAMENT SYSTEM NORTH OF THE TRAILER SPOTS, INDICATING THAT GROWTH IS OCCURRING. THE NEUTRAL LINE RUNS EAST-WEST IN THE WESTERN PART OF THE REGION, SUGGESTING AN UNSTABLE CONFIGURATION OF CHROMOSPHERIC MAGNETIC FIELDS. OTHER REGIONS ARE UNIMPRESSIVE.

IB. SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW TO MODERATE. REGION 300 PROBABLY WILL PRODUCE OCCASIONAL SUBFLARES, SOME OF THEM APPROACHING CLASS M INTENSITY.

II. THE GEOMAGNETIC FIELD HAS REMAINED QUIET DURING THE PAST SEVEN HOURS, AND QUIET CONDITIONS ARE EXPECTED TO CONTINUE THROUGH THE FORECAST PERIOD.

III. EVENT PROBABILITIES 17 DEC - 19 DEC

CLASS M 60/60/70

CLASS X 05/05/07

PROTON 01/01/02

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 16 DEC 82

PREDICTED 17 DEC - 19 DEC 88/91/93

90-DAY MEAN 16 DEC 86

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 15 DEC 05

ESTIMATED AFR/AP 16 DEC 02/03

PREDICTED AFR/AP 17 DEC - 19 DEC 05/06 - 07/08 - 05/06

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HFUS BOU 172200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 351

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

IA. SOLAR ACTIVITY HAS BEEN MODERATE WITH 14 SUBFLARES OBSERVED DURING THE PAST 25 HOURS. REGION 300 (S19E63), THE SOURCE OF THIS ACTIVITY, HAS SHOWN SLOW SPOT AND PLAGE GROWTH AND AN INCREASE IN MAGNETIC COMPLEXITY. ITS MORE SIGNIFICANT ACTIVITY CONSISTED OF X-RAY CLASS M-1 EVENTS AT 16/2146Z AND 17/0045Z AND A C-7 EVENT AT 17/1448Z. ALL OF THIS ACTIVITY, HOWEVER, HAS BEEN OPTICALLY CLASSED SUBFAINT OR SUBNORMAL. REGIONS 296 (N01W56), 299 (N08E51) AND 301 (S09E60) CONTAIN SPOTS BUT HAVE BEEN QUIET AND STABLE. THERE HAS BEEN MINOR SURGING ON THE EAST LIMB AT S4-8 AND PROMINENCE ACTIVITY ON THE WEST LIMB AT A VERY LARGE QUIET PROMINENCE IS PRESENT ON THE EAST LIMB AT N10-45, BUT INDICATIONS ARE THAT IT MAY BECOME ACTIVE.

IB. SOLAR ACTIVITY IS EXPECTED TO CONTINUE LOW TO MODERATE. REGION 300 SHOULD BE OBSERVED WITH CAUTION: RAPID DEVELOPMENT COULD RESULT IN ENERGETIC ACTIVITY. OLD REGIONS 287 AND 292 ARE DUE TO RETURN AT SE11-15 DURING THE NEXT 48 HOURS. THERE IS HOWEVER NO PRESENT INDICATION THAT THEY WILL BE ACTIVE.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET AND IS EXPECTED TO BE QUIET TO UNSETLED DURING THE NEXT 72 HOURS.

III. EVENT PROBABILITIES 18 DEC - 20 DEC

CLASS M 60/70/60

CLASS X 05/07/05

PROTON 01/02/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 17 DEC 84

PREDICTED 18 DEC - 20 DEC 87/89/92

90-DAY MEAN 17 DEC 87

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 16 DEC 02

ESTIMATED AFR/AP 17 DEC 05/06

PREDICTED AFR/AP 18 DEC - 20 DEC 07/08 - 05/06 - 05/06

SOLTERWARN

SPAN

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