

NNNN

KBOU X

HOUS 2 BOU 230200

JOINT AFGWC/SESC SOLAR REGION AND ACTIVITY SUMMARY

ISSUED AT 23/0200Z NOV 1973

I. REGIONS WITH SUNSPOTS. SONSPOT DATA FROM CANARY ISLANDS TAKEN AT 22/0815Z
LOCATIONS VALID AT 23 NOV 0000Z.

NMBR LOCATION LO AREA Z LL NN MAG TYPE

0287 S09E64 154 0140 D 10 12 BETA

0288 S10W17 235 0020 B 03 04 BETA

0285 N13W45 263 0010 B 02 02 BETA

IA. H-ALPHA PLAGES WITHOUT SPOTS. LOCATIONS VALID AT 23 NOV 0000Z.

NMBR LOCATION LO

0286 N15E61 157

0284 S13E15 203

0280 N15W52 270

II. NONE

III. AREAS OF SPECIAL INTEREST-

POSSIBLE NEW ACTIVE CENTER BEHIND LIMB NEAR S13E90

SOLTERWARN

SPAN

BT

HFUS 1 BOU 230600

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 327A

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 0600Z 23 NOVEMBER 1973

IA. SOLAR ACTIVITY HAS REMAINED VERY LOW DURING THE PAST EIGHT
HOURS. REGION 287(S09E61) IS THE MOST IMPRESSIVE DISK FEATURE.
THIS REGION PRODUCED A SUBNORMAL FLARE AT 22/2315Z, EXHIBITED AN
ACTIVE FILAMENT DURING THE INTERVAL 22/2303-23/0111Z, AND PRODUCED A
DARK SURGE AT 23/0302Z. REGION 287 PRESENTLY CONTAINS BRIGHT
PLAGE IN THE TRAILER SECTION. ARCH FILAMENTS ARE NO LONGER VISIBLE
IN REGION 288(S10W20). PLAGE AT N17W25 HAS BRIGHTENED, AND A SMALL
NEW PLAGE REGION HAS APPEARED AT S13E90.

IB. SOLAR ACTIVITY IS EXPECTED TO REMAIN GENERALLY LOW. REGION 287
PROBABLY WILL PRODUCE OCCASIONAL SUBFLARES, BUT ENERGETIC ACTIVITY
IS UNLIKELY UNLESS INCREASED DEVELOPMENT OCCURS.

II. THE GEOMAGNETIC FIELD HAS REMAINED VERY QUIET DURING THE PAST
EIGHT HOURS. A RECURRENT MAGNETIC DISTURBANCE IS EXPECTED TO BEGIN
DURING THE THREE-DAY FORECAST PERIOD, PROBABLY BY 24 NOVEMBER.
IT SHOULD BE NOTED, HOWEVER, THAT RECURRENT PATTERNS OF MAGNETIC
ACTIVITY HAVE BECOME UNCLEAR DURING THE PAST THREE WEEKS. POSITIONS
OF SECTOR BOUNDARIES IN THE INTERPLANETARY MEDIUM MAY BE CHANGING,
MAKING IT DIFFICULT TO PREDICT RECURRENT GEOMAGNETIC ACTIVITY.

III. EVENT PROBABILITIES 23 NOV - 25 NOV

CLASS M 08/08/08

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 22 NOV 87

PREDICTED 23-25 NOV 91/97/100

90-DAY MEAN 22 NOV 92

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 21 NOV 14

ESTIMATED AFR/AP 22 NOV 06/07

PREDICTED AFR/AP 23 - 25 NOV 12/13 - 24/31 - 30/42

SOLTERWARN

SPAN

BT

NNNN

KBOU

HFUS 1 BOU 230600

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 327A

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 0600Z 23 NOVEMBER 1973

IA. SOLAR ACTIVITY HAS REMAINED VERY LOW DURING THE PAST EIGHT HOURS. REGION 287(S09E61) IS THE MOST IMPRESSIVE DISK FEATURE. THIS REGION PRODUCED A SUBNORMAL FLARE AT 22/2315Z, EXHIBITED AN ACTIVE FILAMENT DURING THE INTERVAL 22/2303-23/0111Z, AND PRODUCED A DARK SURGE AT 23/0302Z. REGION 287 PRESENTLY CONTAINS BRIGHT PLAGE IN THE TRAILER SECTION. ARCH FILAMENTS ARE NO LONGER VISIBLE IN REGION 288(S10W20). PLAGE AT N17W25 HAS BRIGHTENED, AND A SMALL NEW PLAGE REGION HAS APPEARED AT S13E90.

IB. SOLAR ACTIVITY IS EXPECTED TO REMAIN GENERALLY LOW. REGION 287 PROBABLY WILL PRODUCE OCCASIONAL SUBFLARES, BUT ENERGETIC ACTIVITY IS UNLIKELY UNLESS INCREASED DEVELOPMENT OCCURS.

II. THE GEOMAGNETIC FIELD HAS REMAINED VERY QUIET DURING THE PAST EIGHT HOURS. A RECURRENT MAGNETIC DISTURBANCE IS EXPECTED TO BEGIN DURING THE THREE-DAY FORECAST PERIOD, PROBABLY BY 24 NOVEMBER. IT SHOULD BE NOTED, HOWEVER, THAT RECURRENT PATTERNS OF MAGNETIC ACTIVITY HAVE BECOME UNCLEAR DURING THE PAST THREE WEEKS. POSITIONS OF SECTOR BOUNDARIES IN THE INTERPLANETARY MEDIUM MAY BE CHANGING, MAKING IT DIFFICULT TO PREDICT RECURRENT GEOMAGNETIC ACTIVITY.

III. EVENT PROBABILITIES 23 NOV - 25 NOV

CLASS M 08/08/08

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 22 NOV 87

PREDICTED 23-25 NOV 91/97/100

90-DAY MEAN 22 NOV 92

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 21 NOV 14

ESTIMATED AFR/AP 22 NOV 06/07

PREDICTED AFR/AP 23 - 25 NOV 12/13 - 24/31 - 30/42

SOLTERWARN

SPAN

BT

NNNN

KBOU OZZNNNN

KBOU

HFUS BOU 231300

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 327B

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 1300Z 23 NOV 1973

IA. SUBFLARE ACTIVITY FROM REGION 287 (S09E58) IS INCREASING
IN FREQUENCY BUT CONTINUES TO BE NON ENERGETIC. RESTRUCTURING
AND SLOW GROW ARE OCCURRING IN THIS REGION AS FILAMENT AND SURGE
ACTIVITY HAS BEEN ALMOST CONSTANT. LITTLE OR NO CHANGE HAS BEEN
REPORTED IN OTHER DISK FEATURES.

IB. CONTINUED DEVELOPMENT IN REGION 287 IS EXPECTED TO YIELD
ADDITIONAL SUBFLARE ACTIVITY WITH CLASS C1 FLARES BECOMING MORE
LIKELY.

II. THE GEOMAGNETIC FIELD IS QUIET. A RECURRENT DISTURBANCE
IS ANTICIPATED BY 24 NOVEMBER WITH A DURATION OF 2 TO 3 DAYS.
(SEE PART V)

III. NO CHANGE

IV. NO CHANGE

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 21 NOV 14

ESTIMATED AFR/AP 22 NOV 06/07

PREDICTED AFR/AP 23 - 25 NOV 05/06 - 14/16 - 17/20

SOLTERWARN

SPAN

BT

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 327

JOINT AFGWC/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 23 NOVEMBER 1973.

IA. SOLAR ACTIVITY HAS BEEN LOW WITH ONLY A FEW MINOR SUBFLARES
REPORTED IN REGION 287 (S11E49) TODAY. THIS REGION HAS DEVELOPED
INTO A "D", BETA GROUP. REGION 288 (S10W28) IS ALSO "D" BETA,
BUT HAS BEEN INACTIVE. NEW SMALL, INACTIVE REGION AT S12E73 IS
NUMBER 289. ALL OTHER REGIONS ARE QUIET.

IB. SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW THE NEXT 72 HOURS.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET, BUT IS EXPECTED TO BE-
COME UNSETTLED TO ACTIVE WITHIN 24 HOURS AND REMAIN SO FOR
24-48 HOURS.

III. EVENT PROBABILITIES 24 NOV - 26 NOV.

CLASS M 10/10/10

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX.

OBSERVED 23 NOV 89

PREDICTED 24 NOV - 26 NOV 90/91/89

90-DAY MEAN 23 NOV 92

V. GEOMAGNETIC A INDICES.

OBSERVED FREDERICKSBURG 22 NOV 06

ESTIMATED AFR/AP 23 NOV 04/05

PREDICTED AFR/AP 24 NOV - 26 NOV 15/17 - 30/42 - 20/24

SOLTERWARN

SPAN

BT

NNNN

KBOU

HFUS BOU 232200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 327

JOINT AFGWC/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 23 NOVEMBER 1973.

IA. SOLAR ACTIVITY HAS BEEN LOW WITH ONLY A FEW MINOR SUBFLARES
REPORTED IN REGION 287 (S11E49) TODAY. THIS REGION HAS DEVELOPED
INTO A "D", BETA GROUP. REGION 288 (S10W28) IS ALSO "D" BETA,
BUT HAS BEEN INACTIVE. NEW SMALL, INACTIVE REGION AT S12E73 IS
NUMBER 289. ALL OTHER REGIONS ARE QUIET.

IB. SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW THE NEXT 72 HOURS.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET, BUT IS EXPECTED TO BE-
COME UNSETTLED TO ACTIVE WITHIN 24 HOURS AND REMAIN SO FOR
24-48 HOURS.

III. EVENT PROBABILITIES 24 NOV - 26 NOV.

CLASS M 10/10/10

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX.

OBSERVED 23 NOV 89

PREDICTED 24 NOV - 26 NOV 90/91/89

90-DAY MEAN 23 NOV 92

V. GEOMAGNETIC A INDICES.

OBSERVED FREDERICKSBURG 22 NOV 06

ESTIMATED AFR/AP 23 NOV 04/05

PREDICTED AFR/AP 24 NOV - 26 NOV 15/17 - 30/42 - 20/24

SOLTERWARN

SPAN

BT