

HFUS 1 BOU 282200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER CO

SDF NUMBER 332

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 28 NOVEMBER 1978

IA. SOLAR ACTIVITY HAS BEEN MODERATE DURING THE PAST 24 HOURS.
REGION 1417 (N15E39) HAD A M1 X-RAY FLARE WITH MAX AT 0532Z.
REGION 1407 (N13W54) HAS PRODUCED MANY CLASS C X-RAY EVENTS,
THE LARGEST A C7 MAXING AT 0813Z AND A C5/SB MAXING AT 0257Z.
REGIONS 1429 (S18E68), 1418 (S14W05) AND 1416 (N09E12) HAVE
ALSO PRODUCED SUBLFLARES. NEW REGION 1430 (S30W43) AND 1431
(S12E67) ARE SIMPLE A TYPE GROUPS.

IB. SOLAR ACTIVITY WILL CONTINUE AT MODERATE LEVEL WITH REGIONS
1407 AND 1417 CAPABLE OF PRODUCING A SIGNIFICANT ENERGETIC EVENT.
REGIONS 1418 AND 1429 ARE GROWING AND ALSO CAPABLE OF EVENTS.
OLD REGION 1385 WHICH WAS ACTIVE LAST ROTATION IS EXPECTED TO
RETURN ON 30 NOVEMBER.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET DURING THE LAST 24 HOURS.
UNSETTLED CONDITIONS ARE EXPECTED BY 30 NOVEMBER AND CONTINUE
THROUGH THE REMAINDER OF THE FORECAST PERIOD.

III. EVENT PROBABILITIES 29 NOVEMBER - 1 DECEMBER

CLASS M 30/40/50

CLASS X 05/10/10

PROTON 05/10/10

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 28 NOVEMBER 167

PREDICTED 29 NOV - 1 DEC 173/179/185

90-DAY MEAN 28 NOVEMBER 157

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 27 NOVEMBER 15

ESTIMATED AFR/AP 28 NOVEMBER 06/08

PREDICTED AFR/AP 29 NOV - 01 DEC 05/10 - 07/08 - 09/10

SOLTERWARN

HFUS 1 BOU 282200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, COLO

SDF NUMBER 332

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 2200Z 28 NOVEMBER 1979

IA. SOLAR ACTIVITY HAS CONTINUED AT A LOW LEVEL THROUGH THE PAST 24 HOURS WITH ONLY A SINGLE FLARE OBSERVED DURING THIS ZULU DAY, A SUBFAINT IN REGION 2138 (S26W71) WITH MAXIMUM AT 0041Z. A SLOW X-RAY RISE TO C1 WAS RECORDED AT 1747Z MAXIMUM BUT COULD NOT BE CORRELATED TO A DISK EVENT. REGION 2137 (S16W53) HAS BEEN THE BRIGHTEST REGION ON THE DISK WITH EVIDENCE OF SOME RESTRUCTURING OCCURRING. REGION 2153 (S21E65), AS IT BECOMES MORE VISIBLE ON THE DISK, HAS DISPLAYED INCREASED COMPLEXITY WITH A DELTA MAGNETIC CONFIGURATION OBSERVED IN THE INTERMEDIATE SPOTS. NO ACTIVITY HAS BEEN OBSERVED FROM THIS REGION HOWEVER. NEW REGION 2154 (N25E61) HAS EMERGED AS A SIMPLE A TYPE GROUP.

IB. SOLAR ACTIVITY SHOULD REMAIN LOW. THE EXPECTED RETURN OF OLD REGION 2106 (S15 CAR 253) ON THE THIRD DAY COULD INCREASE FLARE PRODUCTION AT THAT TIME.

II. THE GEOMAGNETIC FIELD WAS QUIET THROUGH THE PERIOD. QUIET CONDITIONS WILL GRADUALLY CHANGE TO UNSETTLED LEVELS THROUGH THE NEXT ZULU DAY FOLLOWED BY NEAR ACTIVE CONDITIONS ON THE 30TH OF NOVEMBER RESULTING FROM THE EFFECTS OF A DISAPPEARING FILAMENT.

III. EVENT PROBABILITIES 29 NOV - 01 DECEMBER

CLASS M 15/15/20

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 28 NOV 154

PREDICTED 29 NOV-01 DEC 152/154/158

90-DAY MEAN 28 NOV 218

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 27 NOV 04

ESTIMATED AFR/AP 28 NOV 05/05

PREDICTED AFR/AP 29 NOV-01 DEC 08/10 14/14 08/10

SOLIERWARN

BT