

HFUS 1 BOU 292200
FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, CO
SDF NUMBER 272
JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 29 SEPTEMBER 1978.
IA. SOLAR ACTIVITY HAS BEEN LOW TO MODERATE. THE LARGEST EVENT
WAS A B/M1 AT 1049Z IN A SPOTLESS PLAGE AT S32E50. THE OTHER
SIGNIFICANT EVENT WAS A SB/C6 FROM REGION 1304 (N30W49). OF THE
14 REGIONS CONTAINING SUNSPOT GROUPS, ONLY REGION 1315 (N38E25)
HAS MAGNETIC COMPLEXITY AS A BETA GAMMA.
IB. SOLAR ACTIVITY IS EXPECTED TO BE GENERALLY LOW WITH CLASS C
X-RAY ACTIVITY; 1 OR 2 CLASS M EVENTS ARE POSSIBLE.
II. A MAJOR MAG STORM FOLLOWED A SSC AT 29/0300Z. THE FIELD IS
EXPECTED TO BE ACTIVE, WITH PERIODS AT STORM LEVEL, FOR THE
NEXT 24-36 HOURS. THE FIELD WILL THEN TRANSITION INTO UNSETTLED
CONDITIONS.
III. EVENT PROBABILITIES 30 SEP - 02 OCT
CLASS M 40/40/40
CLASS X 01/01/01
PROTON 01/01/01
PCAF GREEN
IV. OTTAWA 10.7 CM FLUX
OBSERVED 29 SEP 147
PREDICTED 30 SEP - 02 OCT 147/148/146
90-DAY MEAN 29 SEP 135
V. GEOMAGNETIC A INDICES
OBSERVED FREDERICKSBURG 28 SEP 31
ESTIMATED AFR/AP 29 SEP 65/123
PREDICTED AFR/AP 30 SEP - 02 OCT 32/48 - 20/29 - 12/17
SOLTERWARN
RT

SDF NUMBER 272

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 29 SEPTEMBER 1979

IA. SOLAR ACTIVITY WAS AGAIN LOW DURING THE PAST 24 HOURS. ONLY ISOLATED C-CLASS SUBFLARES WERE OBSERVED, WITH MOST OF THEM ATTRIBUTED TO REGION 2006 (N18W35). THE 2006/2021 COMPLEX HAS CONTINUED ITS VERY RAPID GROWTH AND NOW HAS A SPOT AREA OF OVER 900 MILLIONTHS OF THE DISK. THESE TWO REGIONS HAVE GROWN CLOSER TOGETHER, BUT THEY STILL POSSESS ONLY BETA-TYPE MAGNETIC CONFIGURATIONS. THE TRAILER PORTION OF REGION 2017 (N17W07) HAS DECAYED, AND ALL OTHER REGIONS EXPERIENCED LITTLE OR NO CHANGE. THE ONLY NEW REGION IS 2025 (N11E74), AN HSX-TYPE.

IB. SOLAR ACTIVITY IS EXPECTED TO INCREASE TO MODERATE LEVELS DUE TO THE RAPID DEVELOPMENT DURING THE PAST 48 HOURS IN REGION 2006/2021. THE LACK OF SIGNIFIGANT ACTIVITY FROM THIS COMPLEX UP TO NOW MAY INDICATE A BUILD UP OF ENERGY, LEADING TO A MAJOR X-RAY EVENT.

II. THE GEOMAGNETIC FIELD WAS GENERALLY UNSETTLED WITH OCCASIONAL ACTIVE PERIODS DURING THE PAST 24 HOURS. THIS PATTERN IS EXPECTED TO CONTINUE FOR THE NEXT 72 HOURS.

III. EVENT PROBABILITIES 30 SEPT - 2 OCT

CLASS M 30/40/50

CLASS X 05/10/10

PROTON 05/10/10

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 29 SEPT 224 02.017

PREDICTED ~~20547~~ 219/215/211

90-DAY MEAN 29 SEPT 180

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 28 SEPT 14

ESTIMATED AFR/AP 29 SEPT 11/15

PREDICTED AFR/AP 30 SEPT - 02 OCT 10/11 10/13 12/19

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