

HFUS 1 BOU 252200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 268

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 25 SEPTEMBER 1978

IA. SOLAR ACTIVITY HAS BEEN LOW THIS ZULU DAY. OPTICAL OBS HAVE
BEEN HINDERED DUE TO WEATHER. THERE ARE 14 SPOT GROUPS CURRENTLY
ON THE SOLAR DISK, ALL ARE SIMPLE MAGNETICALLY. REGION 1294
(N35W03) STILL RETAINS SOME POTENTIAL FOR AN ENERGETIC FLARE,
BUT IT HAS BEEN QUIET SINCE ITS PROTON FLARE OF 23 SEPTEMBER.

IB. SOLAR ACTIVITY IS EXPECTED TO BE LOW TO MODERATE. REGION
1272 (S33 L-190), WHICH WAS FLARE RICH LAST ROTATION, IS DUE
BACK 26 SEPTEMBER.

II. THE PROTON EVENT FOLLOWING THE X-1 FLARE OF 23/0941Z
CONTINUES IN A DECAYING PHASE. SATELLITE FLUX AT 25/2030Z FOR
GREATER THAN 10 MEV WAS 220 P/CM2/SEC/STER. A SUDDEN COMMENCE-
MENT OCCURRED AT 25/0718Z WITH STORM CONDITIONS FOLLOWING.
THE FIELD IS EXPECTED TO BE ACTIVE, WITH PERIODS AT STORM
LEVEL, AS THE EARTH TRANSITS FROM THE CURRENT FLARE RESPONSE
TO RECURRENT STRUCTURE RESPONSE.

III. EVENT PROBABILITIES 26 SEPTEMBER - 28 SEPTEMBER

CLASS M 50/30/30

CLASS X 10/05/05

PROTON 10/05/05

PCA IN PROGRESS

IV. OTTAWA 10.7 CM FLUX

OBSERVED 25 SEPTEMBER 157

PREDICTED 26-28 SEPTEMBER 154/151/149

90-DAY MEAN 25 SEPTEMBER 135

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 24 SEPTEMBER

ESTIMATED AFR/AP 25 SEPTEMBER 24/35

PREDICTED AFR/AP 26-28 SEPTEMBER 32/40 - 25/30 - 28/60

SOLTERWARN

BT

HFUS 1 BOU 252200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 268

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 25 SEPTEMBER 1979

IA. SOLAR ACTIVITY HAS BEEN MODERATE DURING THE PAST 24 HOURS.
SEVERAL X-RAY FLARES HAVE BEEN REPORTED; THE LARGEST BEING AN
M2/1B WITH MINOR RADIO BURSTS, FROM REGION 2017 (N16E49) AT
1110 UT. REGION 2012 (N22W45) PRODUCED A C5/SB FLARE AT 0828 UT.
A C8/1B OCCURRED FROM REGION 1994 (N06W45) AT 2043 UT. REGION
1994 IS SHOWING SIGNS OF RESTRUCTURING IN THE LARGE LEADER SPOT.
THE DELTA CONFIGURATION CONTINUES AND APPEARS TO HAVE GROWN IN
STRENGTH DURING THE PAST 24 HOURS. NEW REGION 2021 (N22E23) IS A
SIMPLE C-TYPE BETA.

IB. SOLAR ACTIVITY IS EXPECTED TO BE MODERATE TO HIGH. REGION
1994 APPEARS TO HAVE THE POTENTIAL FOR MAJOR ACTIVITY. REGION
2017 IS A BETA-GAMMA AND SHOULD CONTINUE TO BE A PRODUCER OF
M-CLASS X-RAY FLARES.

II. THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED DURING THE PAST 24
HOURS. THE FIELD IS EXPECTED TO BE ACTIVE THE NEXT 36 HOURS,
THEN UNSETTLED THE REST OF THE FORECAST PERIOD.

III. EVENT PROBABILITIES 26 SEPTEMBER - 28 SEPTEMBER

CLASS M 70/70/60

CLASS X 30/30/25

PROTON 40/35/30

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 25 SEPTEMBER 234

PREDICTED 26-28 SEPTEMBER 232/229/226

90-DAY MEAN 25 SEPTEMBER 178

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 24 SEPTEMBER 11

ESTIMATED AFR/AP 25 SEPTEMBER 13/21

PREDICTED AFR/AP 26-28 SEPTEMBER 25/40 - 18/25 - 10/10

SOLTERWARN

BT