

NNNUUV
PP KGFF
DE BOU 142350Z
HERE IS THE 0000Z MSG FOR REFILE

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO
SDF NUMBER 776A ISSUED 0000Z JANUARY 15 1968

MAJOR FLARES ARE EXPECTED DURING THE NEXT 12 HOURS.

A. AN IMPORTANCE 2B FLARE OCCURRED AT 2006Z ACCCOMPANIED BY
MAJOR IONOSPHERIC AND RADIO EFFECTS. IT WAS LOCATED AT N15W40
OVER A HIGH MAGNETIC FIELD GRADIENT AMONG STRONG SUNSPOTS
WHICH HAVE DEVELOPED RAPIDLY DURING THE PAST 4 HOURS. THE
RADIO BURSTS WERE OF TYPE 2 AND 4 IN THE DEKAMETER RANGE BUT
ONLY MODERATELY STRONG AT HIGH FREQUENCIES.

B. EXCEPT FOR THE LACK OF STRONG CENTIMETER RADIO EMISSION
THE 2B FLARE MEETS CRITERIA FOR PROTON EMISSION. IF THE
ASSOCIATED SUNSPOTS CONTINUE TO DEVELOP PROTON FLARES MAY
OCUR DURING THE NEXT 4 DAYS.

FORECASTS FOR JANUARY 16-18

C. THE DAILY PERCENT PROBABILITIES FOR FLARES AND PROTON EVENTS
IMPORTANCE TWO OR GREATER 50/50/50
IMPORTANCE THREE OR GREATER 20/20/20

PROTON EVENTS 50/50/50

D. OTTAWA 10.7 CM FLUX TODAY 191. PREDICTED 185/180/170.

E. FREDERICKSBURG A INDEX FOR JAN 13 IS .07. FOR JAN 14 ABOUT 10.
PREDICTED 10-20/20-40/20-60.

BT

NNN M MUUV
PP KGFF
DE BOU 150600Z
HERE IS THE MSG FOR REFILE
FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLORADO
SDF NUMBER 776B ISSUED 0600Z JAN 15 1968
MAJOR FLARES ARE EXPECTED IN THE NEXT 12 HOURS
BT

MNNNGMVXVMVAMVUU

PP KGFF

DE BOU 151200Z

THIS IS THE MESSAGE FOR REFILE

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLORADO

SDF NUMBER 776C ISSUED 1200Z JAN 15 1968

MAJOR FLARES ARE EXPECTED DURING THE NEXT 12 HOURS.

BT

NNNNUV
PP KGFF
DE BOU 151910Z
HERE IS THE MSG FOR REFILE.

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO.
SDF NUMBER 777A ISSUED 1800Z JANUARY 15 1968.

MAJOR FLARES ARE EXPECTED DURING THE NEXT 12 HOURS.

A. BRIGHT IMPORTANCE TWO FLARES WERE REPORTED TODAY BEGINNING AT 0000Z 1130Z AND 1223Z. ALL WERE ASSOCIATED WITH THE LARGE REGION CENTERED NEAR N12W62. THE 1130Z AND 1223Z FLARES OCCURRED IN THE LEADING AND FOLLOWING PORTIONS OF THE REGION RESPECTIVELY. THE 1130Z FLARE HAD THREE MAXIMA CLN AS IMP 1B AT 1231Z AND IMP 2B AT 1249Z AND AGAIN AT 1255Z. EACH OF THESE FLARES PRODUCED MODERATELY INTENSE RADIO NOISE OUTBURSTS PRIMARILY IN THE CENTIMETER WAVELENGTHS. THE SPOT GROUPS CENTERED NEAR N12W62 CONTINUE TO DECLINE IN AREA BUT THE MAGNETIC DELTA CONFIGURATIONS REPORTED THERE YESTERDAY APPARENTLY STILL EXIST. NUMEROUS IMP ONE AND LESSER FLARES HAVE OCCURRED TODAY PRIMARILY IN THE NORTHWEST QUADRANT REGIONS PLUS A FEW IN THE REGION NOW TRaversing WEST LIMB AT S25.

B. CONTINUED MAJOR FLARE ACTIVITY IS EXPECTED FROM THE N12W62 REGION UNTIL IT COMPLETES WEST LIMB PASSAGE LATE JAN. 18. OCCASIONAL MAJOR FLARES ARE ALSO POSSIBLE FROM THE REGION NOW NEAR N20W29 WHERE THE SPOT GROUP IS EVOLVING SLOWLY. PROTONS ARE NOT EXPECTED WITH THE MAJOR FLARES REPORTED SO FAR TODAY HOWEVER ADDITIONAL MAJOR FLARES IN THE N12W62 REGION MAY PRODUCE PROTONS.

FORECASTS FOR JAN

RY 16-18

C. DAILY PERCENT PROBABILITIES FOR FLARES AND PROTON EVENTS

IMPORTANCE TWO OR GREATER 65/60/50

IMPORTANCE THREE OR GREATER 20/10/8

PROTON EVENTS 20/20/15

16 17 18

D. OTTAWA 10.7 CM FLUX TODAY IS 183. PREDICTED 175/170/160.

NOTE: BUDGETARY AND PERSONNEL REDUCTIONS HAVE NECESSITATED THAT TELETYPE OPERATIONS IN THE SDFC BE REDUCED. CONSEQUENTLY THE SDF MESSAGES REGULARLY ISSUED AT 0600Z AND 1200Z ARE BEING DISCONTINUED. THE MESSAGES AT 0800Z AND 2400Z DAILY WILL BE A AND B RESPECTIVELY. PROFESSIONAL FORECASTERS ARE CONTINUOUSLY ON DUTY IN THE SDFC AND FORECAST UPDATES CMMA ETC CMMA ARE AVAILABLE BY TELEPHONE. THE SDFC TELEPHONE NUMBER IS /AREA CODE 303/ 447-1000 EXTENSION 3171.

BT