

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO

VIA AGIWARN

SPACE DISTURBANCE FORECAST NUMBER 447A ISSUED AT 1700Z

FEBRUARY 21 1967

A. SOLAR ACTIVITY IS INCREASING WITH THE APPEARANCE OF A NEW SPOT GROUP AT NORTHEAST LIMB. EARLY MEASUREMENTS OF THE SPOT GROUP INDICATE IT IS CLASS J WITH AREA ABOUT 160 MILLIONTHS. IT IS ASSOCIATED WITH A PLAGE REGION WHICH IS A PROBABLE RETURN. IMPORTANCE ONE FLARES OCCURRED IN THIS REGION AT ABOUT 0301Z AND 0630Z TODAY. A REPORT OF AN IMPORTANCE THREE FLARE FROM THE REGION AT 1520Z IS CONSIDERED TO BE VERY QUESTIONABLE HOWEVER IT IS PARTIALLY SUPPORTED BY OBSERVATION BY ANOTHER OBSERVATORY OF A POSSIBLE IMPORTANCE ONE OR TWO IN PROGRESS AT 1605Z. THIS MAY HAVE BEEN THE DECLINING PHASE OF THE 1520Z FLARE. A NEW SMALL SPOT GROUP WAS BORN ON THE DISK TODAY AT S28 E24. ALL REMAINING REGIONS APPEAR STABLE OR DECLINING.

B. THE PROBABILITIES FOR FLARES AND PROTON EVENTS FOR THE THREE DAY PERIOD FEBRUARY 22-24 ARE AS FOLLOWS /FIGURES ARE PERCENTAGES FOR EACH OF THE THREE DAYS/
IMPORTANCE ONE OR GREATER 100/100/100
IMPORTANCE TWO OR GREATER 20/20/20
IMPORTANCE THREE OR GREATER 3/3/3
PROTON EVENTS 1/1/1

C. THE OTTAWA 10.7 CM FLUX TODAY IS ESTIMATED TO BE 124.

THE PREDICTED VALUES FOR FEBRUARY 22-24 ARE 127/130/132

D. THE FREDERICKSBURG MAGNETIC A INDEX INFORMATION WILL BE INCLUDED ON THE 2300Z FORECAST.

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FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO

VIA AGIWARN

SPACE DISTURBANCE FORECAST NUMBER 447B ISSUED AT 2300Z

FEBRUARY 21 1967.

A. SOLAR ACTIVITY CONTINUES TO INCREASE AS THE ACTIVE REGION NEAR THE NORTHEAST LIMB ROTATES FURTHER ONTO THE DISK. THE SPOT GROUP IS NOW TENTATIVELY CALLED CLASS E WITH AREA 200-300 MILLIONTHS. ANOTHER SPOT GROUP APPEARED IN RECENT HOURS IMMEDIATELY SOUTH OF AND EAST OF THE TYPE E GROUP. SEVERAL FLARES HAVE BEEN OBSERVED NEAR THE TYPE E GROUP TODAY RANGING FROM SUBFLARES TO THE POSSIBLE IMPORTANCE THREE NORMAL AT 1520Z. SMALL LOOP-TYPE PROMINENCES WERE REPORTED BY BOTH LOCKHEED AND SACRAMENTO PEAK OBSERVATORIES AT N20 E LIMB. THERE IS EVIDENCE OF A PARTICLE EVENT TODAY CMMA HOWEVER DATA IS CONFUSING AND THE EVENT IS POORLY UNDERSTOOD. IT MAY BE DUE TO THE NORTHEAST LIMB REGION. NEUTRON MONITORS FIRST SHOWED EVIDENCE OF THE EVENT AT 1100Z. A SCATTERING OF OBSERVATIONS SINCE THEN BY SPACE VEHICLES AND HIGH LATITUDE PROTON MONITORING STATIONS SUPPORT THIS CMMA HOWEVER TIME CORRELATION IS NOT GOOD AND THE EVENT APPEARS TO BE VERY WEAK. A SMALL SPOT GROUP AT N15 W50 IS GROWING AND IS ACCCOMPANIED BY A BRIGHT PLAGE. AN IMPORTANCE ONE BRIGHT FLARE WAS REPORTED HERE AT 1730Z.

B. THE PROBABILITIES FOR FLARES AND PROTON EVENTS FOR THE THREE DAY PERIOD FEBRUARY 22-24 ARE AS FOLLOWS /FIGURES ARE PERCENTAGES FOR EACH OF THE THREE DAYS/

IMPORTANCE ONE OR GREATER 100/100/100

IMPORTANCE TWO OR GREATER 40/45/50

IMPORTANCE THREE OR GREATER 7/7/7

PROTON EVENTS 10/10/10

C. THE OTTAWA 10.7 CM FLUX TODAY IS 128. THE PREDICTED VALUES FOR FEBRUARY 22-24 ARE 136/140/144

D. THE FREDERICKSBURG MAGNETIC A INDEX FOR YESTERDAY WAS 3. TODAY IT WILL BE ABOUT 4. THE PREDICTED VALUES FOR FEBRUARY 22-24 ARE 5/7/10

ADVISORY MESSAGE COSMIC EVENT PERIOD 2130Z-2130Z DECEMBER
NEUTRON MONITOR 4 PERCENT INCREASE