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DE POU 641736Z
HERE IS THE MSG FOR REFILE

FROM SPACE DISTURBANCE FORECAST CENTER FSSA BOULDER COLO
SDP NUMBER 221A ISSUED 1700Z 24 APRIL 1969

CLASS M FLARES ARE EXPECTED IN THE NEXT 12 HOURS.

A. HIGHLIGHTS FOR THE PERIOD 27 MARCH-23 APRIL 1969 CLN ACTIVITY THIS WEEK CONTINUED TO BE DOMINATED BY THE REGION AT N21. ON THE 27TH, THE REGION PRODUCED ITS FOURTH CLASS X FLARE, AS DESCRIBED IN LAST WEEK'S SUMMARY. THE FIFTH AND SIXTH CLASS X FLARES FROM THIS REGION WERE PRODUCED ON WEST LIMB AND BEHIND WEST LIMB, RESPECTIVELY AT 23/0953Z (OPTICALLY 1ND) AND 30/0248Z. THIS LAST EVENT WAS PROBABLY THE MOST ENERGETIC EVENT OBSERVED THIS CYCLE. THE RADIO FLUX WAS IN EXCESS OF 10,000 FLUX UNITS AT 10CM, AND PROTON EMISSION IS REPORTED TO HAVE BEEN OBSERVED BY PIONEER SATELLITES BEGINNING 8 MINUTES AFTER THE ONSET OF THE RADIO BURST. NEUTRON MONITOR COUNT RATES BEGAN SLOW ENHANCEMENT SEVERAL HOURS LATER, AND SOFTER PROTON FLUXES AND DETECTION OF POLAR CAP ABSORPTION FOLLOWED. THE PCA WAS A SMALL EVENT, WITH LESS THAN 2DR ABSORPTION REPORTED AS THE MAXIMUM AT THULE. RIOMETERS IN THE ALASKAN CHAIN GENERALLY REPORTED HIGHER ABSORPTIONS BEGINNING AT LOCAL SUNRISE, WITH 3.6DR THE MAXIMUM REPORTED, BUT THE PROFILE IN LATITUDE SUGGESTS CONTAMINATION BY OUTER-BELT PRECIPITATION. ABSORPTION CONTINUED FOR AT LEAST 48 HOURS. THE SUNSPOT REGION AT N12 WHICH HAS BEEN SO IMPRESSIVE IN SIZE (PERHAPS 1700 MILLIONTHS AT MAXIMUM DEVELOPMENT ON THE 31ST) AND IN MAGNETIC COMPLEXITY (WITH SEVERAL DELTA CONFIGURATIONS) HAS PRODUCED ONLY CLASS M EVENTS (SIX, NONE OF OPTICAL GREATER THAN ONE). ALL OF THESE WERE ON 29 MARCH. THE REGION IS NOW DECAYING. AN ADDITIONAL CLASS M FLARE (OPTICAL IMPORTANCE 2ND) WAS OBSERVED IN THE N25 REGION BEGINNING 32/1817Z WHICH HAS BEEN DECAYING SINCE ROTATING ONTO THE VISIBLE DISK ON 24 MARCH. VERY LITTLE RADIO OR X-PAY EMISSION WAS OBSERVED FROM THIS EVENT. TWO REGIONS HAVE ROTATED ONTO THE VISIBLE DISK IN THE LAST TWO DAYS; A NEW REGION AT N11 AND A RETURNING SPOT OF OLD ACTIVITY AT S17. THE LATTER IS THE REGION ASSOCIATED WITH THE EVENTS OF LATE OCTOBER. PIONEER 7 DATA INDICATES THAT ONE OR THE OTHER OF THESE REGIONS MAY HAVE BEEN ACTIVE ON THE LAST SEVERAL DAYS WHILE STILL BEHIND THE LIMB. THE GEOMAGNETIC FIELD HAS BEEN ONLY SLIGHTLY DISTURBED WITH NO STORM RESULTING.

B. FORECAST FOR THE WEEK 25 APRIL-11 APRIL 1969 CLN SOLAR ACTIVITY IS EXPECTED TO DECLINE. THE REGION AT N12 IS STILL IMPRESSIVE IN SIZE AND IN BRIGHNESS AT 9.1CM RADIO WAVELENGTH. THE CURRENT TREND OF THIS REGION INDICATES DIMINISHED, BUT STILL MAJOR POTENTIAL. EASTERN REGIONS APPEAR MINOR, BUT FURTHER EVALUATION IS REQUIRED.

C. 28-DAY FORECAST FOR 25 APRIL-23 MAY 1969 CLN SOLAR ACTIVITY IS EXPECTED TO BE SOMEWHAT ENHANCED DURING THE PERIOD 11 APRIL THROUGH 26 APRIL.

D. DAILY FORECASTS FOR 25-27 APRIL AND EXPECTED MEAN FORECAST FOR 08-11 APRIL 1969 CLN

DAILY PERCENT PROBABILITIES FOR FLARES AND PROTON EVENTS
CLASS M OR GREATER 72-72-72 /6%/

CLASS X 22-22-22 /1%/

PROTON EVENTS 22-22-22 /1%/

OTTAWA 10.7 CM FLUX TODAY IS 177. PREDICTED 177-160-155 /15%/.

E. N/A.

F. KP ESTIMATED FOR 1200-1500Z WAS 2. KP FORECAST FOR NEXT 24 HOURS PER KP 15.3: 2-2-2-2-2-2-2.

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THIS IS THE MESSAGE FOR REFILE

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO
SDF NUMBER 221B ISSUED 2300Z 4 APRIL 1969

CLASS M FLARES ARE EXPECTED DURING THE NEXT 18 HOURS.

A. ONLY CLASS C SUBFLARES HAVE BEEN OBSERVED DURING THE PAST 6
HOURS. MINOR SPOT GROWTH HAS OCCURRED JUST EAST OF THE SPOT GROUP
AT N11E52. ALL OTHER REGIONS ARE STABLE.

SECTIONS B C AND D REMAIN UNCHANGED FROM SDF 221A.

E. MAGNETIC A-FREDERICKSBURG FOR 3 APRIL WAS 12. FOR 4 APRIL ABOUT
10. PREDICTED AP FOR 5-7 APRIL 10/10/10.

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