DEMONSTRATION OF NEW PCDS CAPABILITIES

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The new, more flexible and more friendly graphics capabilities to be available in later releases of the PCDS were demonstrated. The LIMS-LAMAT data set was chosen to illustrate these new capabilities. Pseudocolor and animation were used to represent the third and fourth dimensions, expanding the analytical capabilities available through the traditional two-dimensional x-y plot. In the new version, variables for the axes are chosen by scrolling through viable selections. This scrolling feature is a function of the new user interface customization.

The new graphics are extremely user friendly and should "free the scientist to look at data and converse with it," without doing any programming. The system is designed to rapidly plot any variable versus any other variable and animate by any variable. Any one plot in itself is not extraordinary; however, the fact that a user can generate the plots instead of a programmer distinguishes the graphics capabilities of the PCDS from other software packages. In addition, with the new CDF design, the system will become more generic, and the new graphics will become much more rigorous in the area of correlative studies.
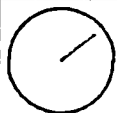
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DEMONSTRATION

OF NEW PCDS

CAPABILITIES

Michael Gough
SAR

PCDS VERSION 4 GRAPHICS

0 "Customized" User Interface

0 Minimal User Interaction

0 Highly Flexible for Correlative
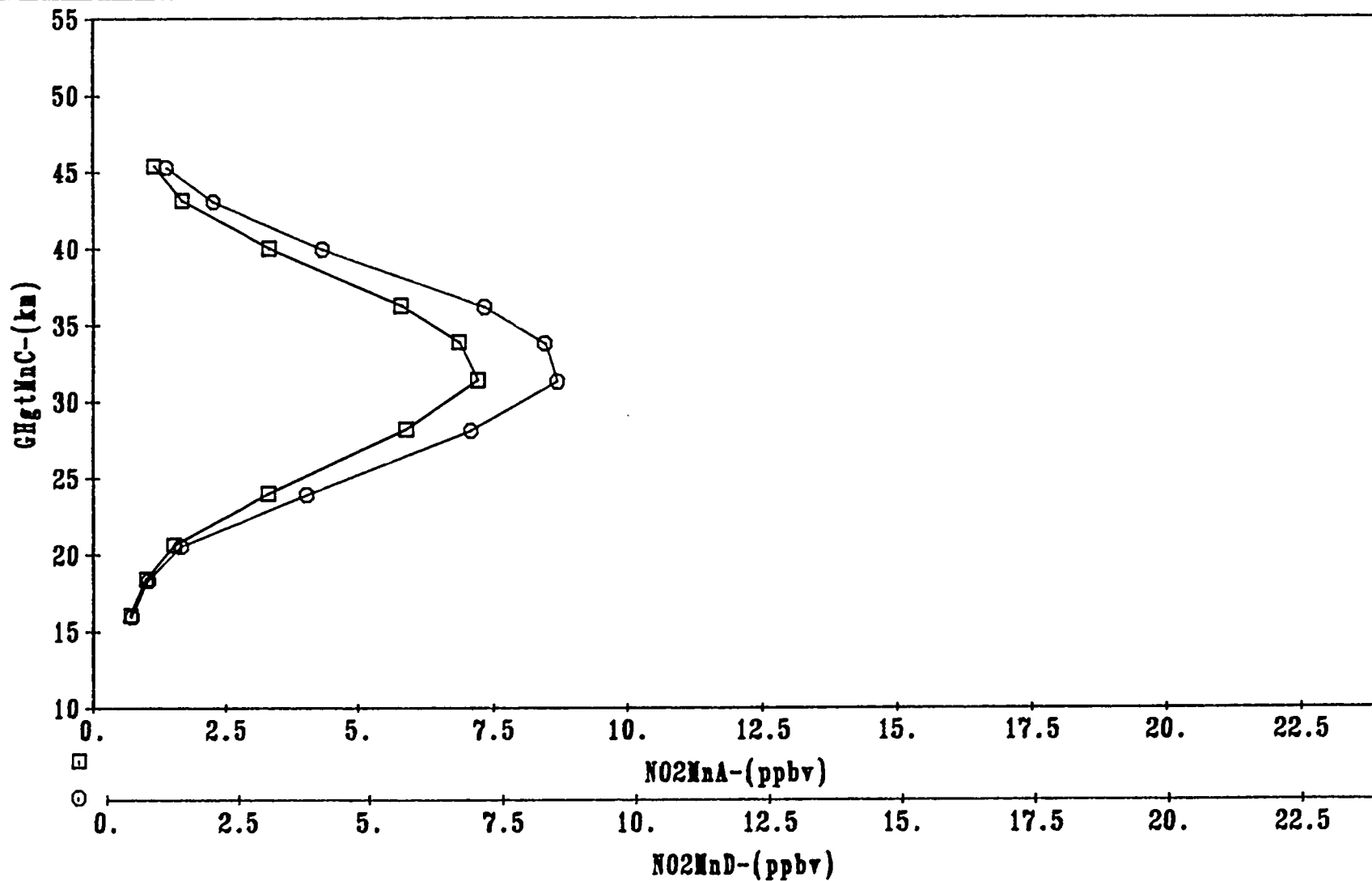   Studies

0 Enhancements: Pseudocolor &
   Animation

Animated NO2 Day/Night Comparison

LatBand-(deg) -64.

FILTERS: 3.00 < IMONTH-(msec) < 3.00; 1.00 < IDAY-(msec) < 1.00

3-63

Animated NO2 Day/Night Comparison

LatBand-(deg) -60.

3-64

NO2MnA-(ppbv)

NO2MnD-(ppbv)
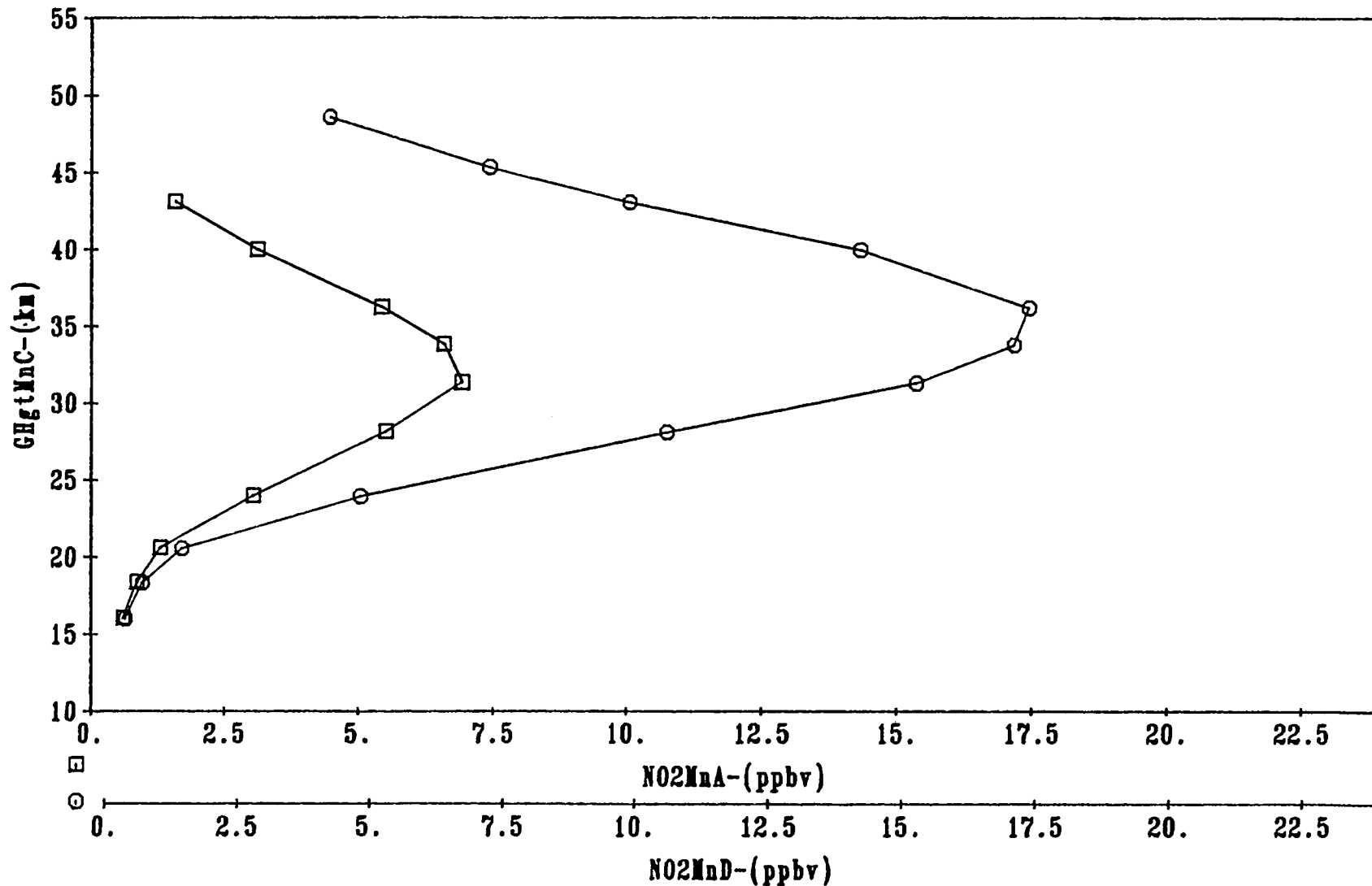
FILTERS: 3.00 < IMONTH-(msec) < 3.00; 1.00 < IDAY-(msec) < 1.00

Animated NO2 Day/Night Comparison

LatBand-(deg) -56.   3of 38 Frames

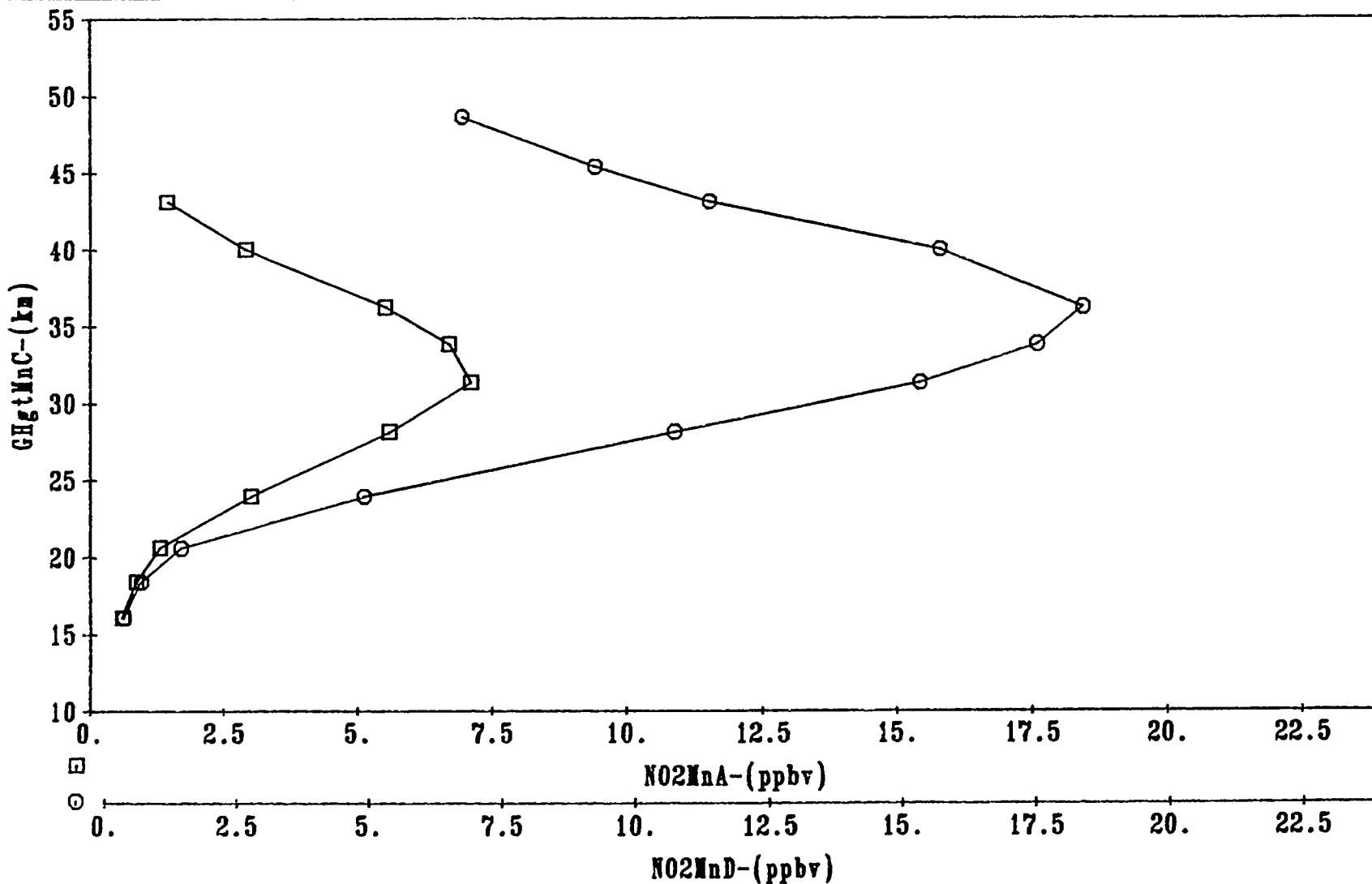FILTERS: 3.00 < IMONTH-(msec) < 3.00; 1.00 < IDAY-(msec) < 1.00
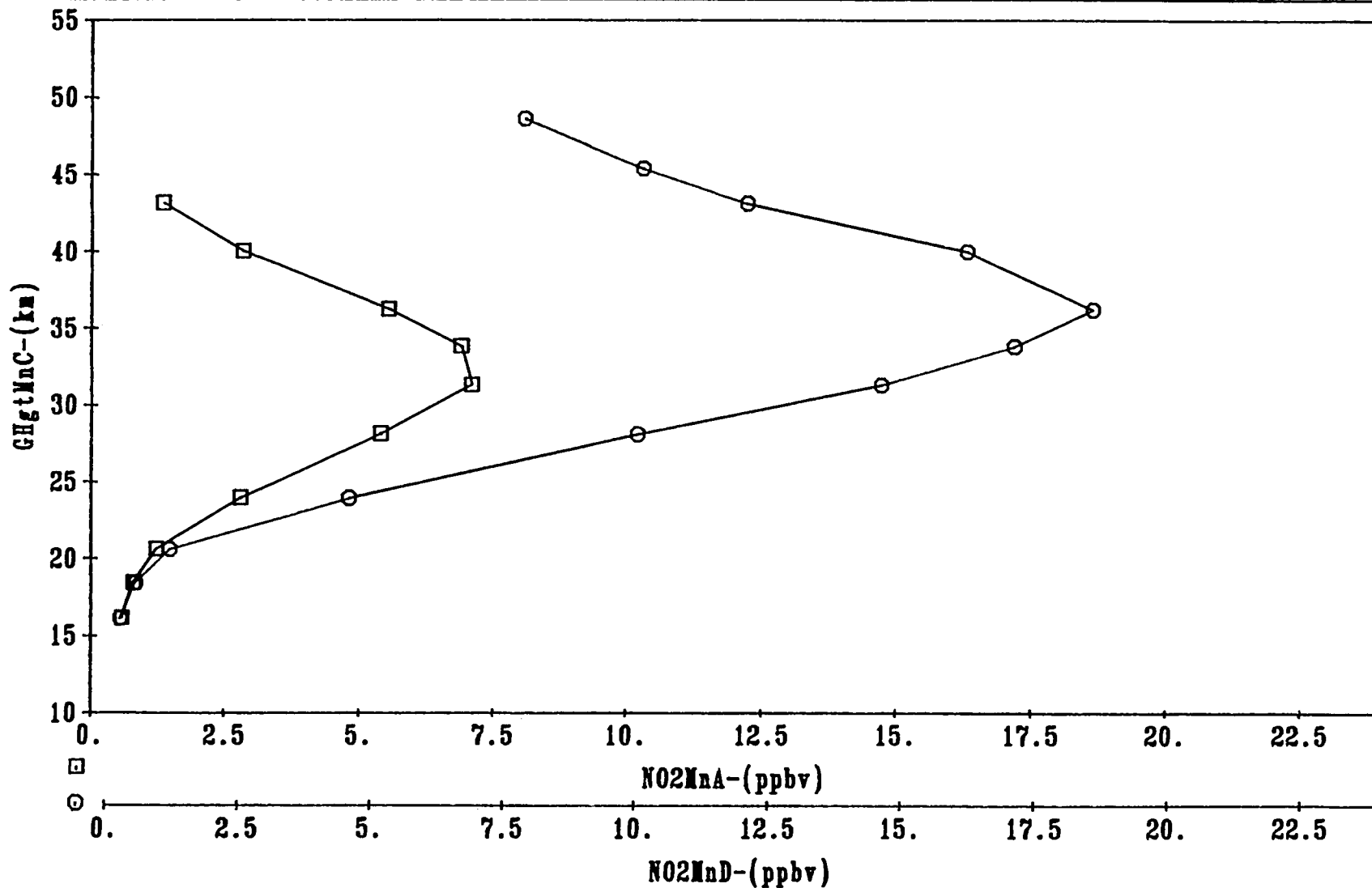
3-65

Animated NO2 Day/Night Comparison
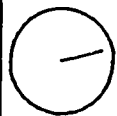
LatBand-(deg) -52.   4of 38 Frames

FILTERS: 3.00 < IMONTH-(msec) < 3.00; 1.00 < IDAY-(msec) < 1.00