

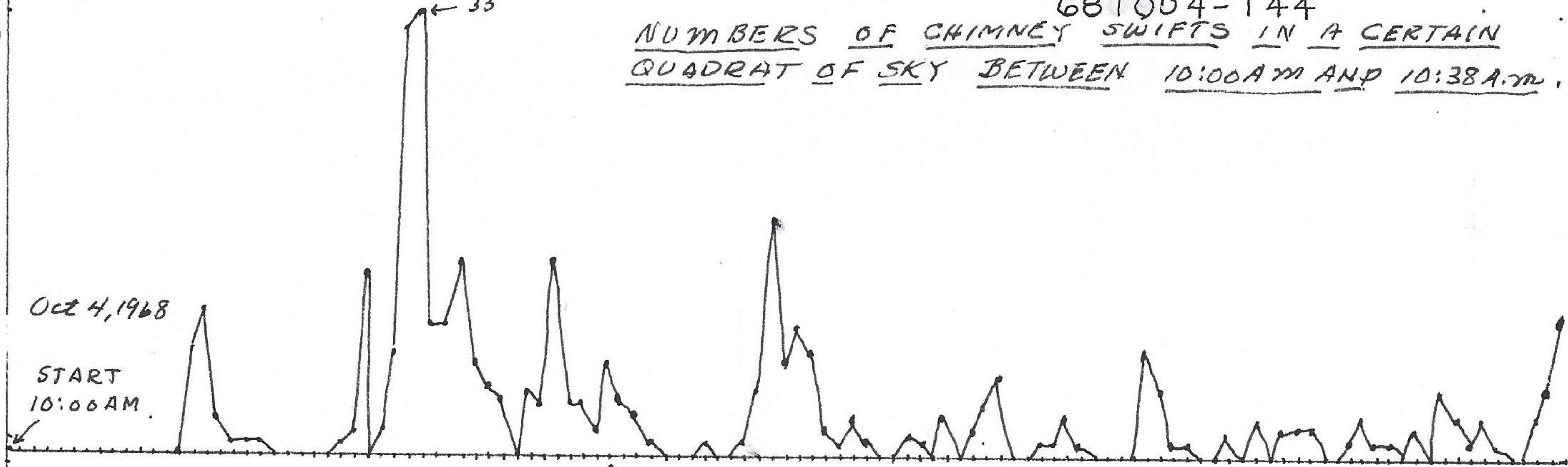
681004-144  
NUMBERS OF CHIMNEY SWIFTS IN A CERTAIN  
QUADRAT OF SKY BETWEEN 10:00AM AND 10:38AM.

Scale:  
 $1/16'' = \text{one in number}$

Oct 4, 1968

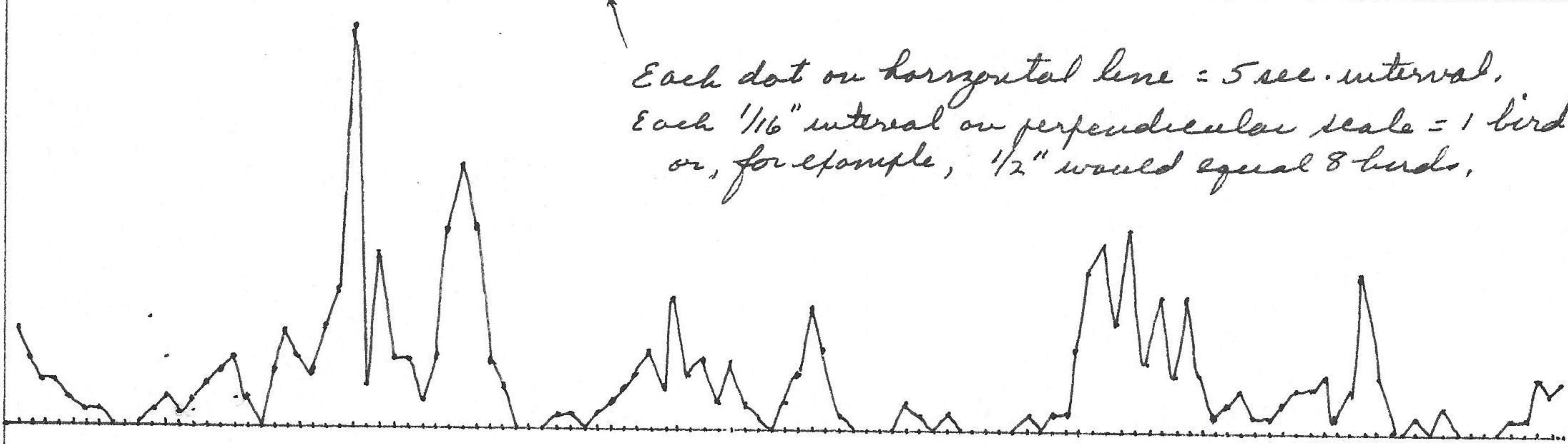
START  
 10:00AM

33

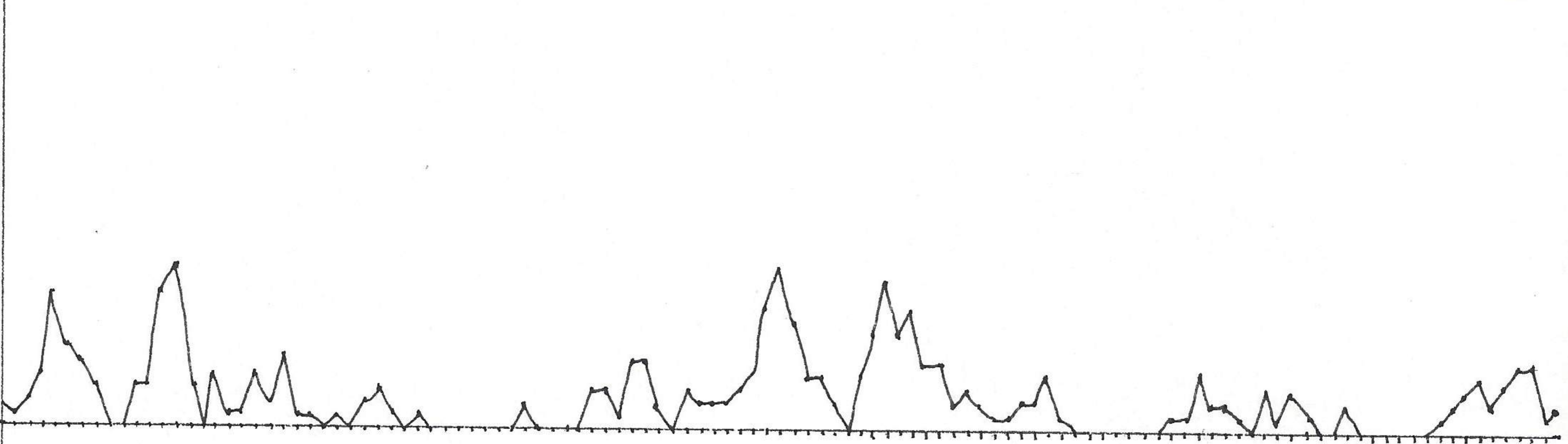


Each dot on horizontal line = 5 sec. interval.  
 Each  $1/16''$  interval on perpendicular scale = 1 bird  
 or, for example,  $1/2''$  would equal 8 birds.

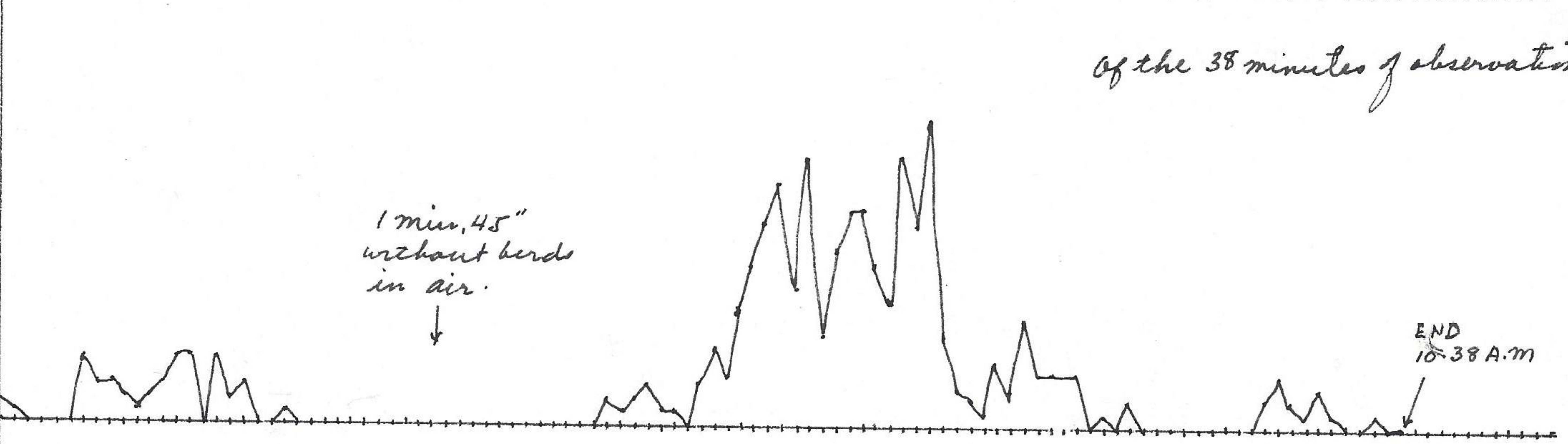
$1/16'' = 1$



$1/16'' = 1$



$1/16'' = 1$



1 min. 45"  
 without birds  
 in air.

of the 38 minutes of observation

END  
 10:38 A.M.

The above graph is numbers of Chimney swifts counted as they flew across a quadrat (2' x 3' window panel) at 4 foot <sup>distant</sup> interval. Day cloudy and raining with faint clouds (distinguishable) moving north. Rain proved to continue all day. Birds appeared to be moving in all directions but mainly N+S with neither direction dominant. The larger groups preceded the cloud formations. A large flock in area of approx. 200' x 200' was approx. 1500 birds. The count above did not represent entire

flocks but only parts of the flock as they passed (in part) the quadrat. Flight pattern general linear but the bigger the flock the more circular the flight