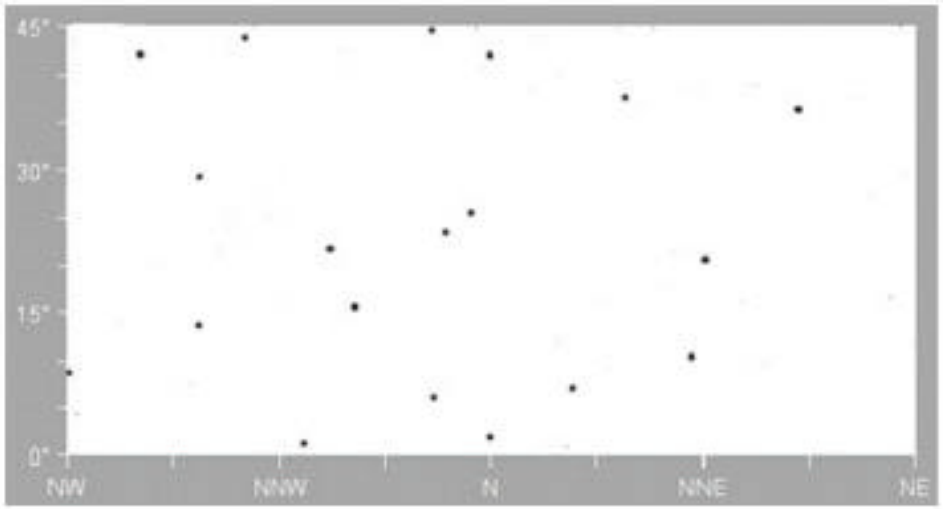
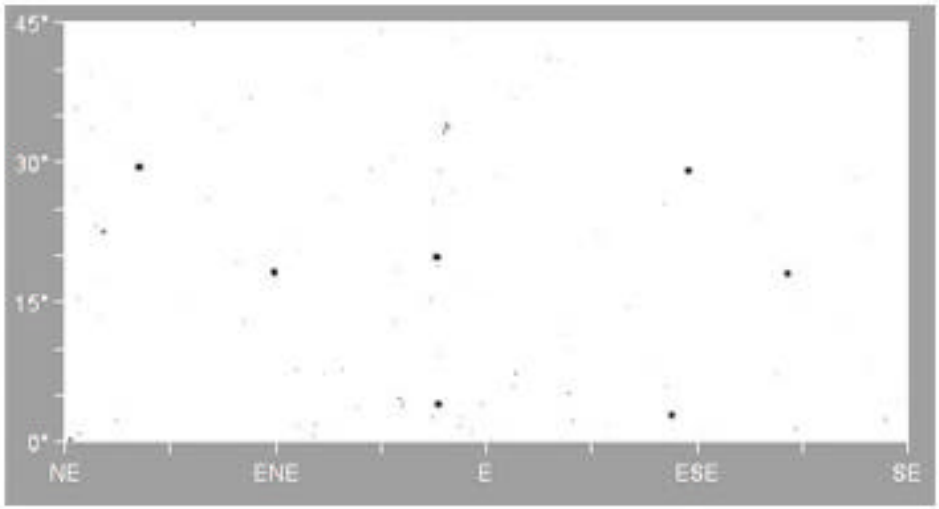
Earth Science
Star Trails Part 2

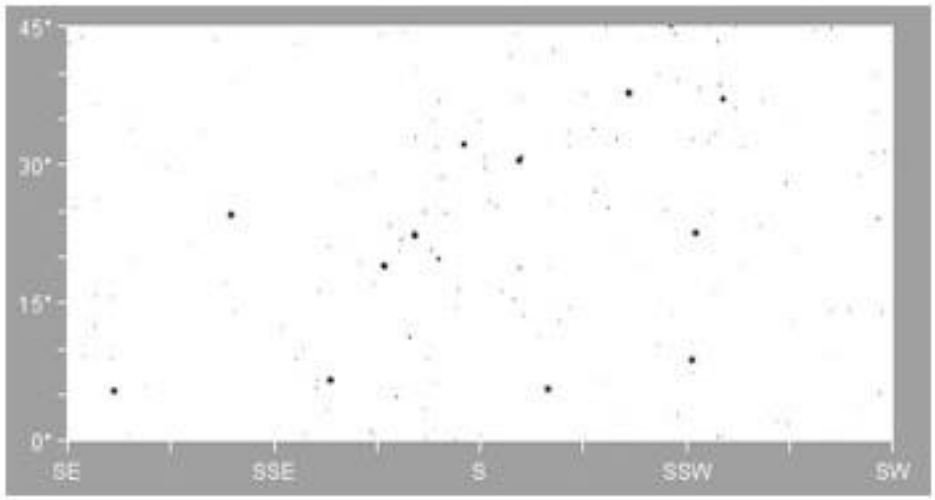
Name _____

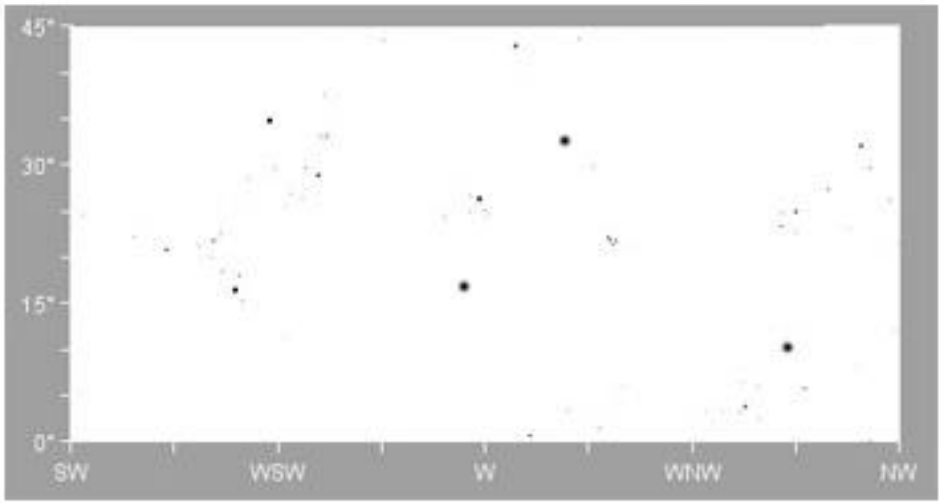
Period _____

On the diagrams below, ***predict*** and draw the paths of stars at the horizon of each of the 4 cardinal compass points (N, E, S, and W) WHEN VIEWED FROM 1º NORTH OF THE EQUATOR. Label Polaris where appropriate.







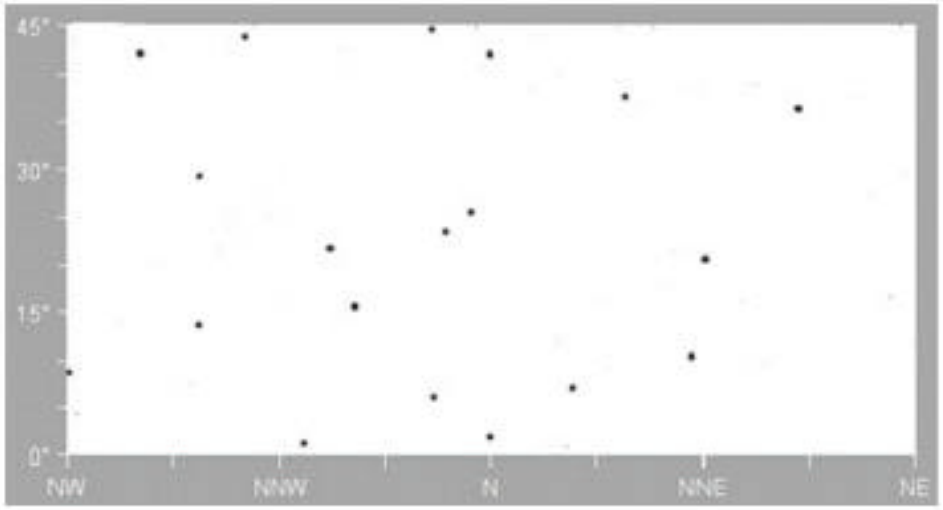


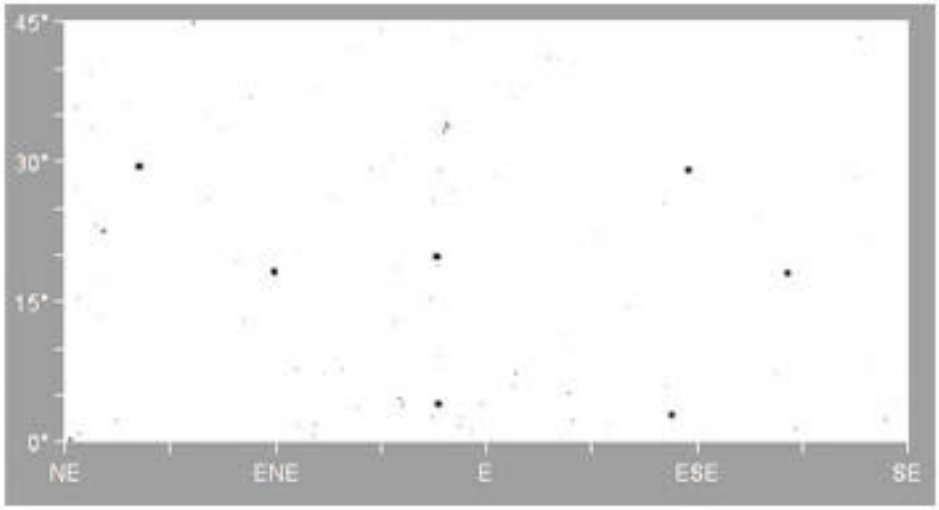
Now set up Skyview Café (www.skyviewcafe.com) to the same specifications that you used in the Star Trails Lab you recently completed.

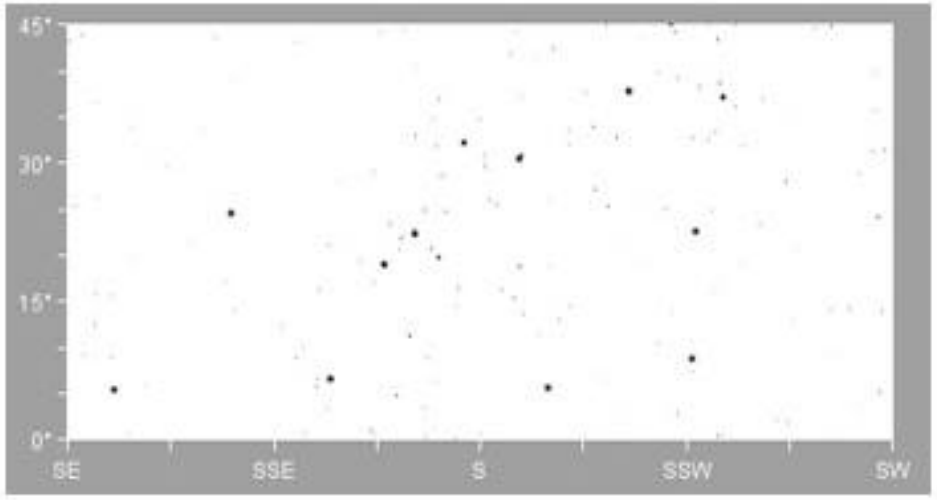
1. Set the Latitude to 01’00” N., keeping all the other settings the same.

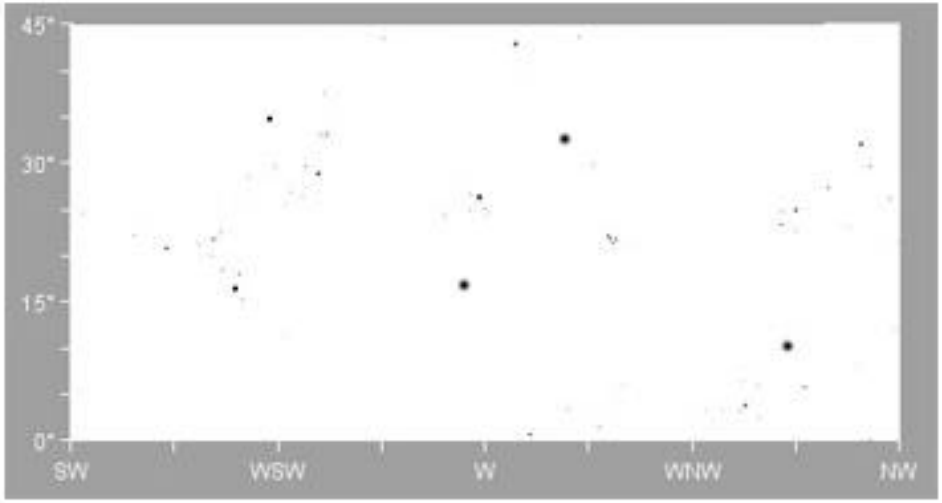
Draw the star trails observed in each direction from a position 1º N of the Equator on the following diagrams (Label Polaris where appropriate):

From 1º N

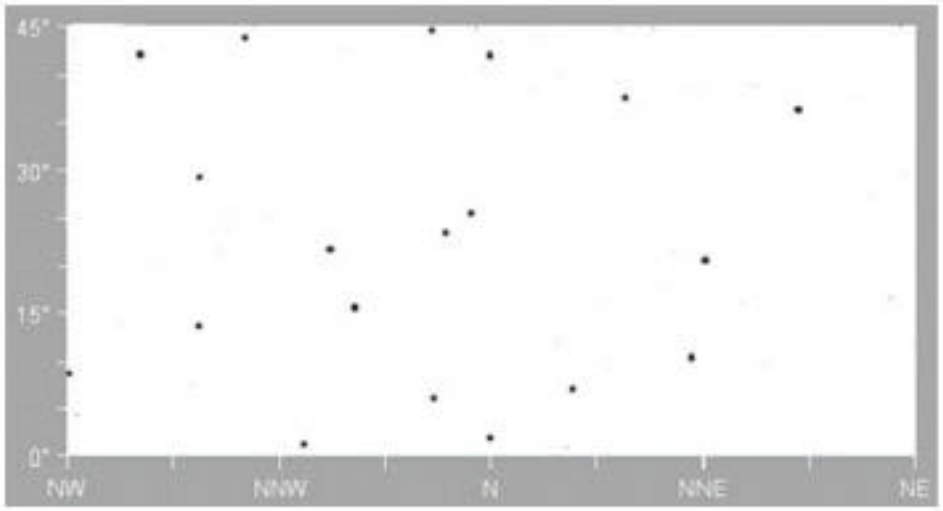


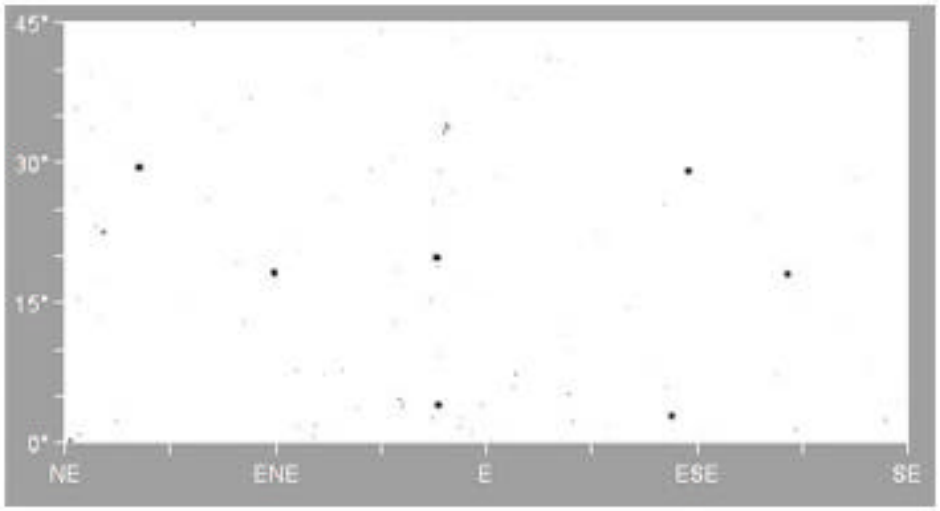


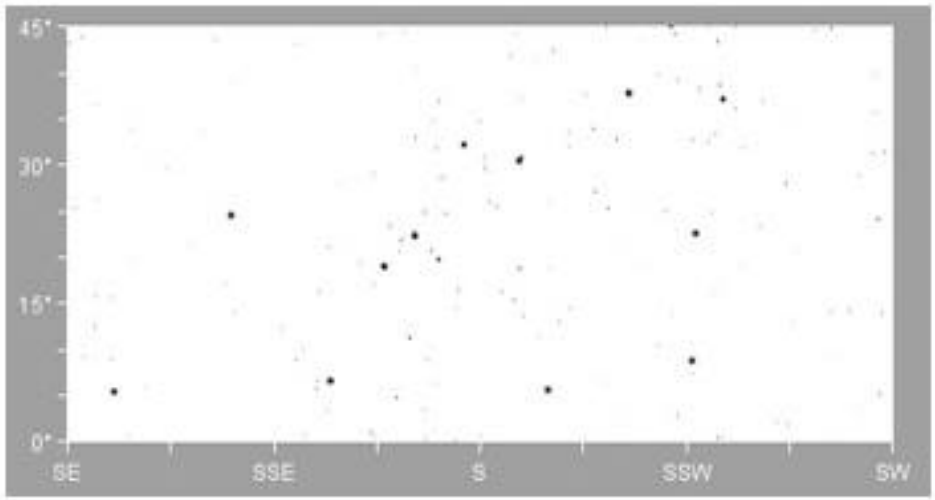


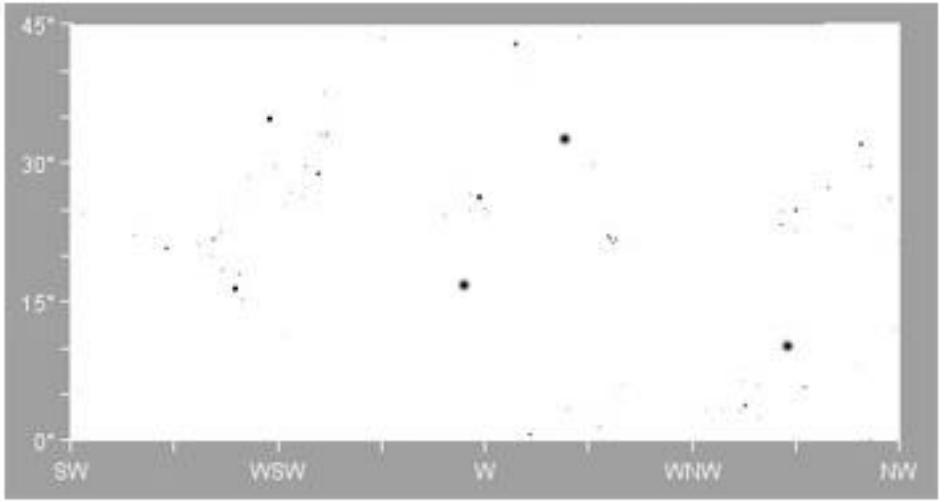


2. On the diagrams below, ***predict*** and draw the paths of stars at the horizon of each of the 4 cardinal compass points (N, E, S, and W) WHEN VIEWED FROM THE NORTH POLE. NOTE: There's a trick here. Think about standing at the north pole and looking in any direction toward the horizon. What direction are you looking? You need only draw your prediction for the direction you are looking.









Set the Skyview Café Latitude to 90’00” N., keeping all the other settings the same.

Draw the star trails observed in each direction from the North Pole on the following diagrams:

From the North Pole. What ‘mistake’ exists in Skyview’s software when we view the sky from the north pole?