Calculates the farthest on circle for a vessel. This tool could be used to get an understanding where a vessel may be located in a number of hours.  
  
A user interacts with the tool by dropping a location of the ship's current, or last known location, and puts in a speed (in kts) and range for the analysis to be conducted. The output will display the amount of time a ship will get to a certain location.   
  
The model is presented below. The farthest on circle uses a mask layer of suitable locations. In this instance, the mask layer is a raster layer of water locations at 1km resolution. This dataset was created from the [Esri's Countries Layer Package](http://www.arcgis.com/home/item.html?id=3864c63872d84aec91933618e3815dd2), where all country values (land areas) were marked as not suitable for navigation and all areas that are ocean are suitable. One could use a mask layer that is more restrictive, such as one that takes into account bathymetry, or restricted areas that ship cannot or will not pass through.

***WaterMask Dataset*:**

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***Farthest On Circle Tool:***

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