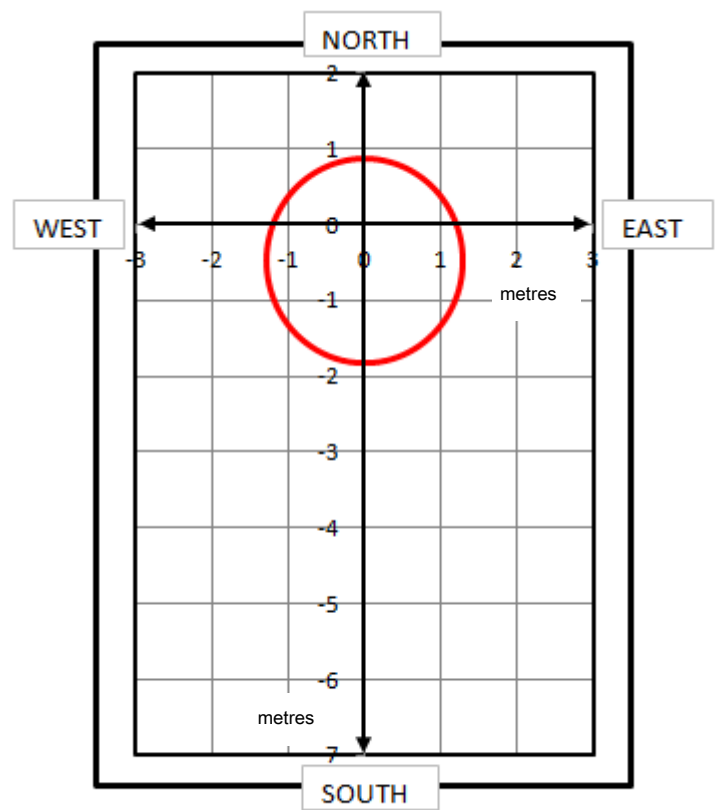
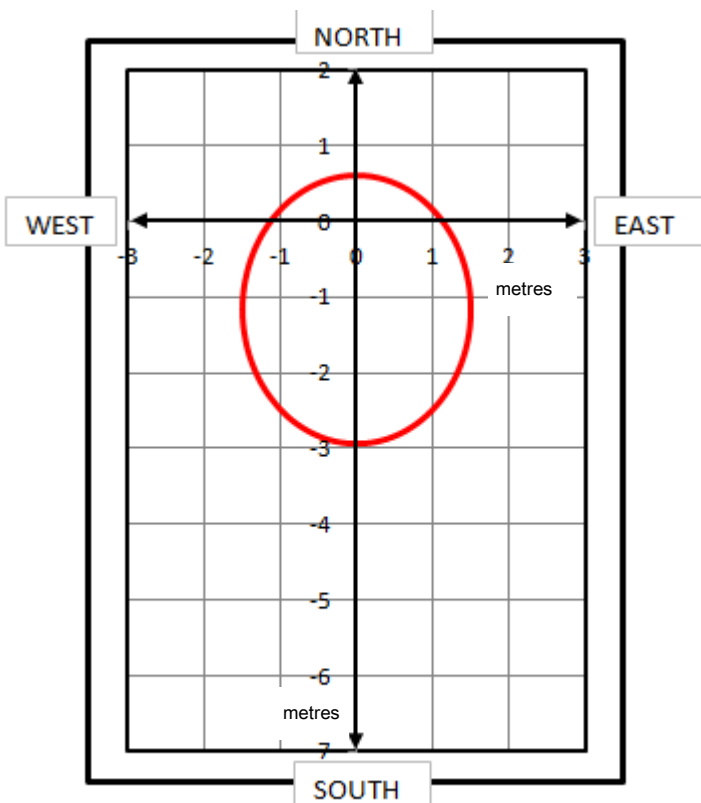


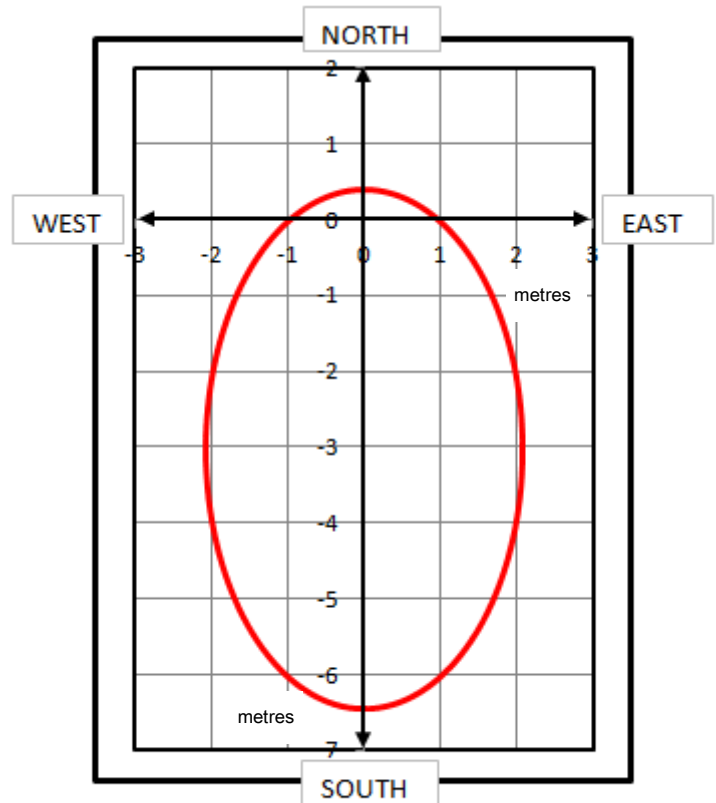
LATITUDE 90° N



LATITUDE 80° N



LATITUDE 70° N



LATITUDE 60° N

PLAN VIEW OF PATH OVER GROUND OF SHADOW OF TIP OF VERTICAL STICK
IMAGINED TO BE ILLUMINATED BY VEGA

Vertical stick is 1.0m long above ground and located at the 0,0 coordinates in the plots above