

Sun Azimuth & Elevation Intersections for Kitty Hawk, NC					(36.06° N, 75.71° W)		Dates & Times—twice a year for each occurrence:		Standard Time = UTC – 0500				Daylight Time = UTC – 0400						
AXIMUTH	65°		90°		115°		135°		160°		225°		245°		270°		295°		DT = Second Sun in March – First Sun in November
ALTITUDE																			
75°									25-May 13:00	17-Jul 13:09									75°
60°					19-May 11:04	24-Jul 11:14	24-Apr 11:36	18-Aug 11:41	04-Apr 13:05	06-Sep 13:01	24-Apr 14:26	18-Aug 14:32	19-May 14:55	24-Jul 15:05					60°
45°					15-Apr 10:20	27-Aug 10:22	22-Mar 11:10	21-Sep 10:56	25-Feb 12:16	16-Oct 12:48	21-Mar 15:10	20-Sep 14:56	15-Apr 15:45	26-Aug 15:47					45°
30°			08-May 08:39	04-Aug 08:49	20-Mar 09:43	23-Sep 09:28	18-Feb 09:42	23-Oct 10:12			18-Feb 14:52	23-Oct 15:22	19-Mar 16:37	22-Sep 16:22	07-May 17:19	04-Aug 17:29			30°
15°			12-Apr 07:52	30-Aug 07:52	22-Feb 08:05	19-Oct 08:36							21-Feb 16:28	19-Oct 16:59	11-Apr 18:15	30-Aug 18:15			15°
10°			04-Apr 07:38	07-Sep 07:33	13-Feb 07:51	29-Oct 08:20							12-Feb 16:44	29-Oct 17:13	04-Apr 18:34	07-Sep 18:29			10°
5°			27-Mar 07:24	15-Sep 07:13	02-Feb 07:34	09-Nov 07:04							01-Feb 16:59	08-Nov 16:29	27-Mar 18:52	15-Sep 18:42			5°
0°	18-May 05:56	25-Jul 06:06	19-Mar 07:09	23-Sep 06:53	19-Jan 07:13	23-Nov 06:48							19-Jan 17:14	22-Nov 16:49	19-Mar 19:12	23-Sep 18:57	18-May 20:03	24-Jul 20:13	0°

For: The Small Island, USA Map

Gray rectangles indicate the intersections where the sun can never be, at the given location.

Note: Some say that "Small Island USA" is off the coast of Texas, since Texas license plates are spawned at this location. However the description in the map preview selector specifically says the map depicts an island off the East Coast of the United States. That being said, I have arbitrarily chosen Kitty Hawk off the North Carolina Coast. If you prefer to assume it's off the coast of Texas, then use the 'Indus Site, Derby' tab.

The above table is for when you know the azimuth and altitude you have in mind, and want to yield the dates and times. However, if you wish to do the opposite-- that is... you have a specific date and time in mind, and want to know what the correct azimuth and altitude is for a given location (via latitude and longitude)-- then click on the link below to use the calculator in this website:

<https://www.esrl.noaa.gov/gmd/grad/solcalc/azel.html>