



SOUTHEASTERN
WIND COALITION

WILMINGTON EAST WIND ENERGY AREA

VISUALIZATIONS AND REPORT

Viewing Instructions

If viewed on a computer monitor, use the highest screen resolution.

The simulated image is at the proper perspective when viewed at 23.5" from the eye, or at a distance of approximately twice the image height.

For further details on the Wilmington East wind energy area, and key specifications and assumptions, see the [formal report by UNASYS.](#)

Wilmington East Wind Energy Area Specifications

The Wilmington East Wind Energy Area, as defined by the US Department of Interior's Bureau of Ocean Energy Management (BOEM) as of January 2022, begins about 17 nautical miles from Bald Head Island at its closest point and extends approximately 18 nautical miles in the southeast direction to its furthest point from land. It will contain approximately 25 Outer Continental shelf blocks and covers 133,590 acres.

Turbines simulated: GE Haliade -X 13MW 4

Height of turbine at nacelle centre:

524 feet (150 metres) 4Number of wind turbines – 122

Height at highest point (highest blade tip):

853 feet (260 metres)

Rotor diameter: 722 feet (220 metres)

Above-water support structure: Single pole that is 20 feet (6 metres) at the waterline, or as specified for turbine model

Color of wind turbines: Off-white (5% grey)

VP1, Image 1: Bald Head Island

Conditions: UV Haze

Date: April 14, 2012

Time of Day: 3 p.m.

Viewpoint Elevation: 16 feet

Camera Height: 5 feet 6 inches

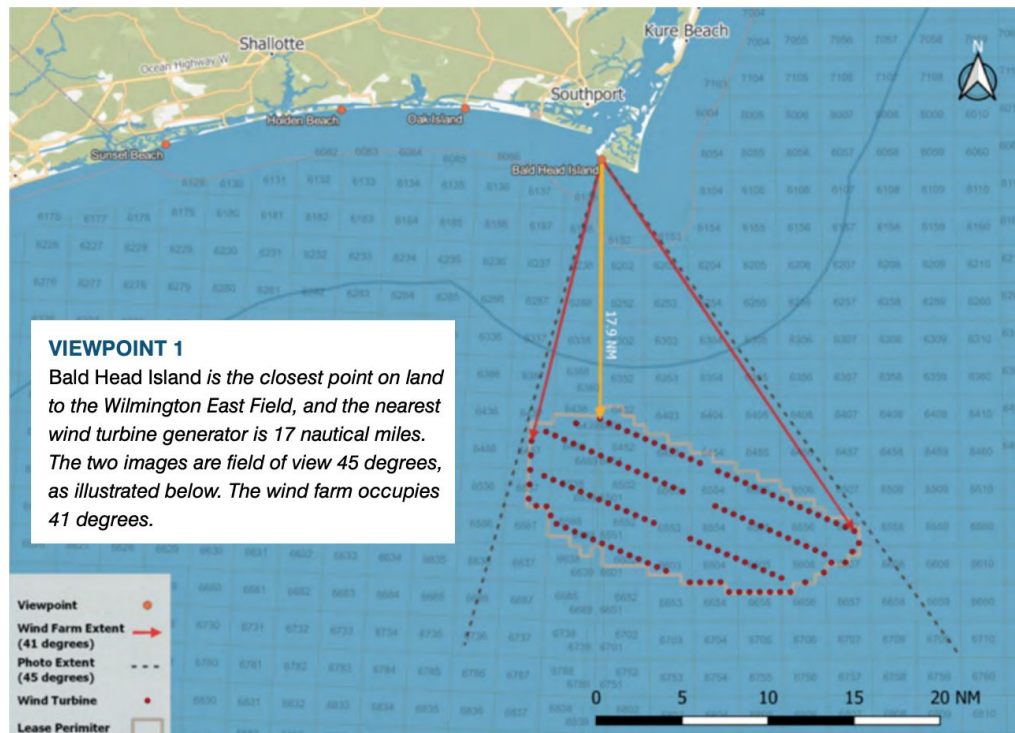
Sun Angle/Azimuth: 247.9 degrees

Lighting Angle: Front lit

Sun Elevation: 44.7 degrees

Observed Weather: Partly cloudy

Lat/long: (33.8579 -78.0026)





VP1, Image 2: Bald Head Island

Conditions: Sunny, clear day

Date: April 14, 2012

Time of Day: 3 p.m.

Viewpoint Elevation: 16 feet

Camera Height: 5 feet 6 inches

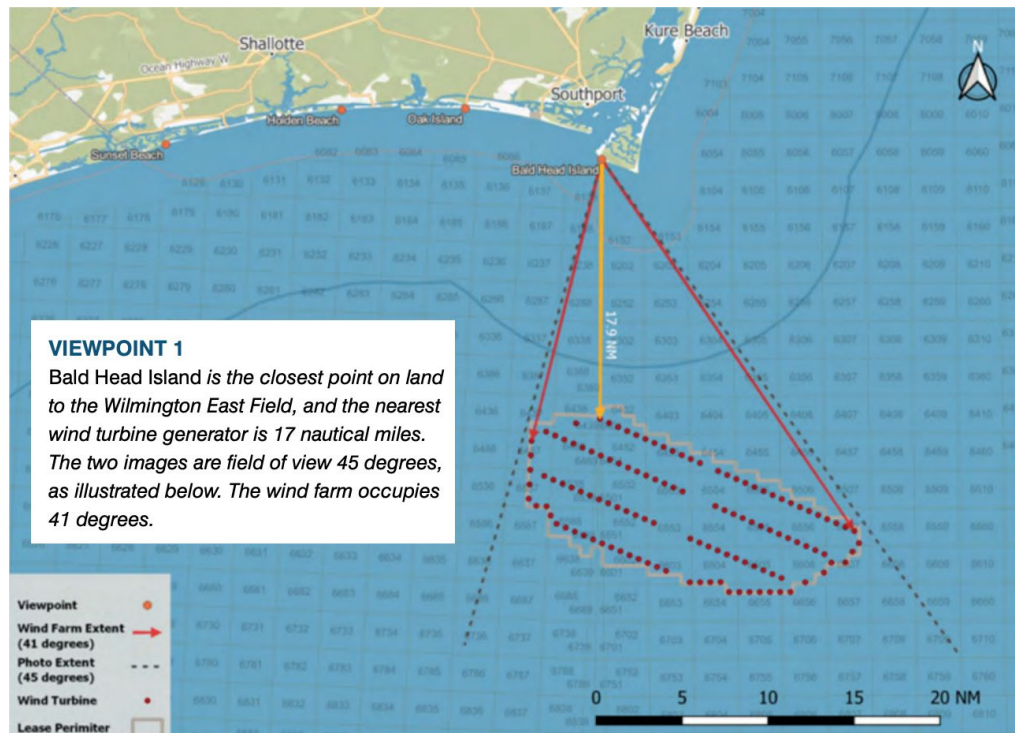
Sun Angle/Azimuth: 247.9 degrees

Lighting Angle: Front lit

Sun Elevation: 44.7 degrees

Observed Weather: Partly cloudy

Lat/long: (33.8579 -78.0026)





VP2, Image 1: Oak Island

Conditions: UV Haze

Date: April 14, 2012

Time of Day: 6 p.m.

Viewpoint Elevation: 9 feet

Camera Height: 5 feet 6 inches

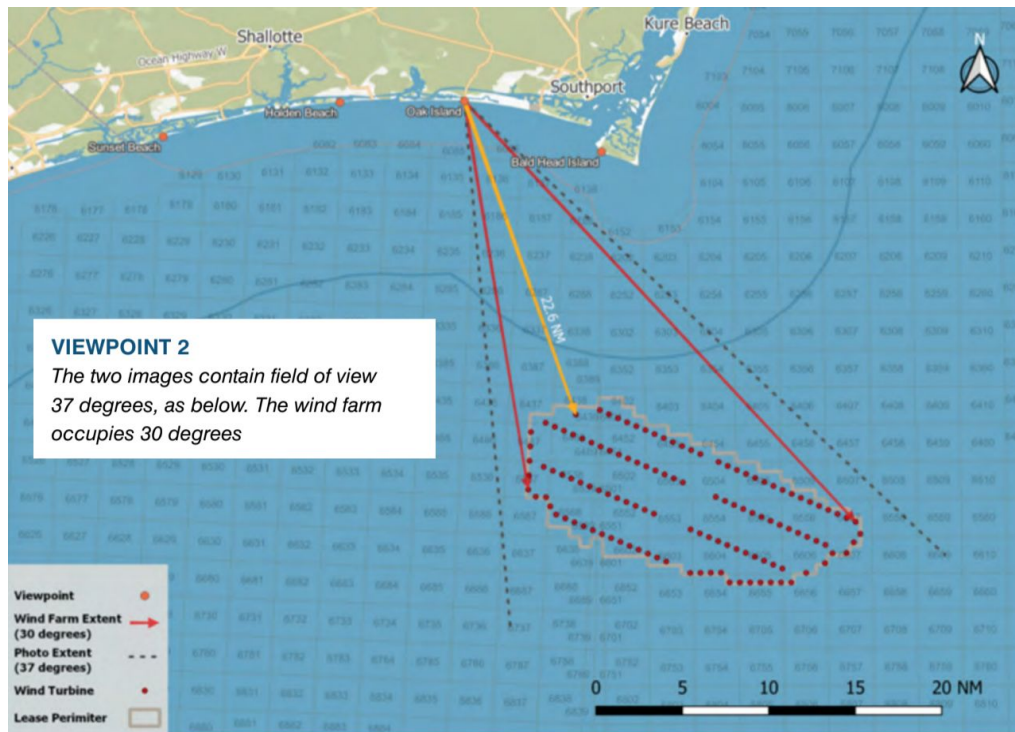
Sun Angle/Azimuth: 276.5 degrees

Lighting Angle: side lit

Sun Elevation: 8.1 degrees

Observed Weather: Partly cloudy

Lat/long: (33.91384 -78.1612)





VP2, Image 2: Oak Island

Conditions: Clear, sunny day

Date: April 14, 2012

Time of Day: 6 p.m.

Viewpoint Elevation: 9 feet

Camera Height: 5 feet 6 inches

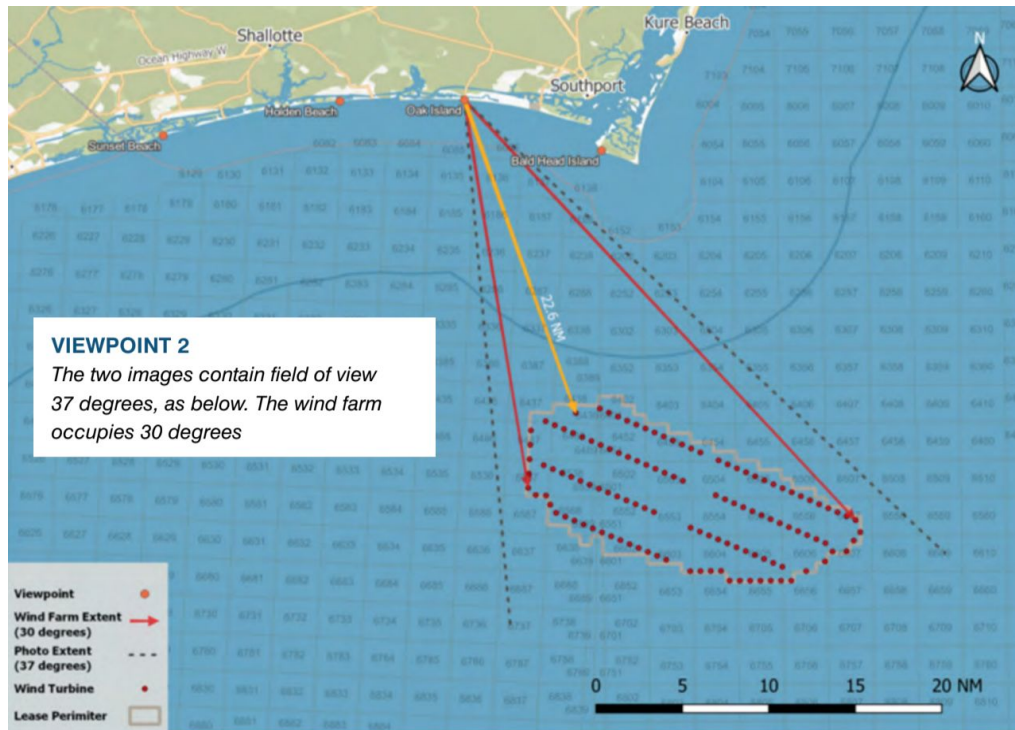
Sun Angle/Azimuth: 276.5 degrees

Lighting Angle: side lit

Sun Elevation: 8.1 degrees

Observed Weather: Partly cloudy

Lat/long: (33.91384 -78.1612)





VP3, Image 1: Holden Beach

Conditions: UV Haze

Date: April 13, 2012

Time of Day: 6 p.m.

Viewpoint Elevation: 6 feet

Camera Height: 5 feet 6 inches

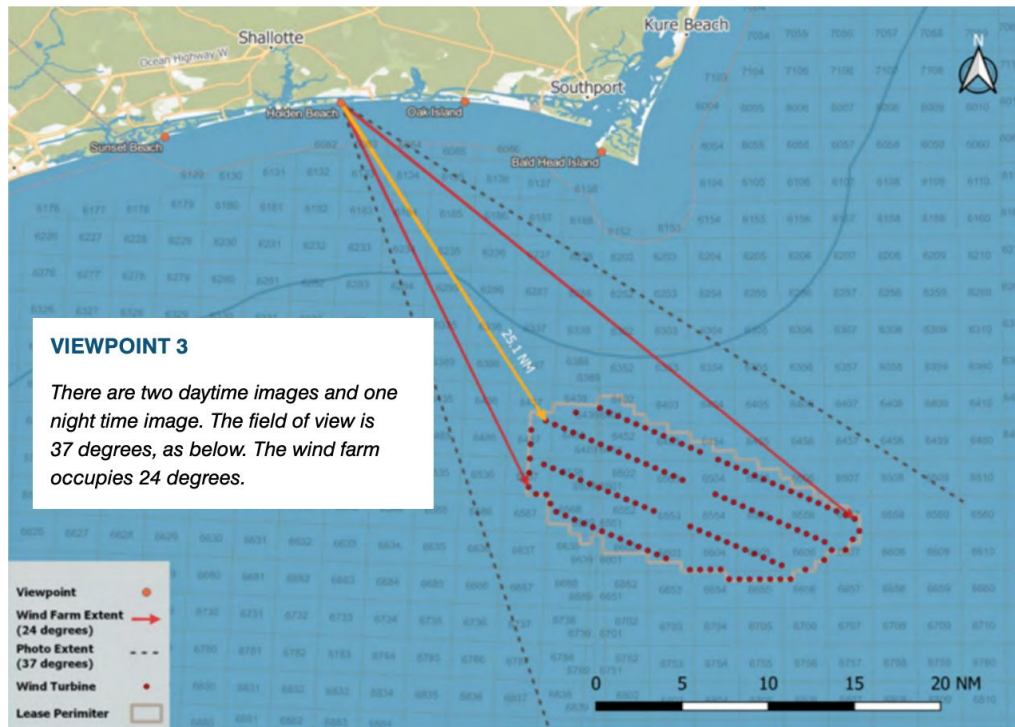
Sun Angle/Azimuth: 276 degrees

Lighting Angle: side lit

Sun Elevation: 8.1 degrees

Observed Weather: Partly cloudy

Lat/long: (33.9100 -78.3042)





VP3, Image 2: Holden Beach

Conditions: Clear, sunny day

Date: April 13, 2012

Time of Day: 6 p.m.

Viewpoint Elevation: 6 feet

Camera Height: 5 feet 6 inches

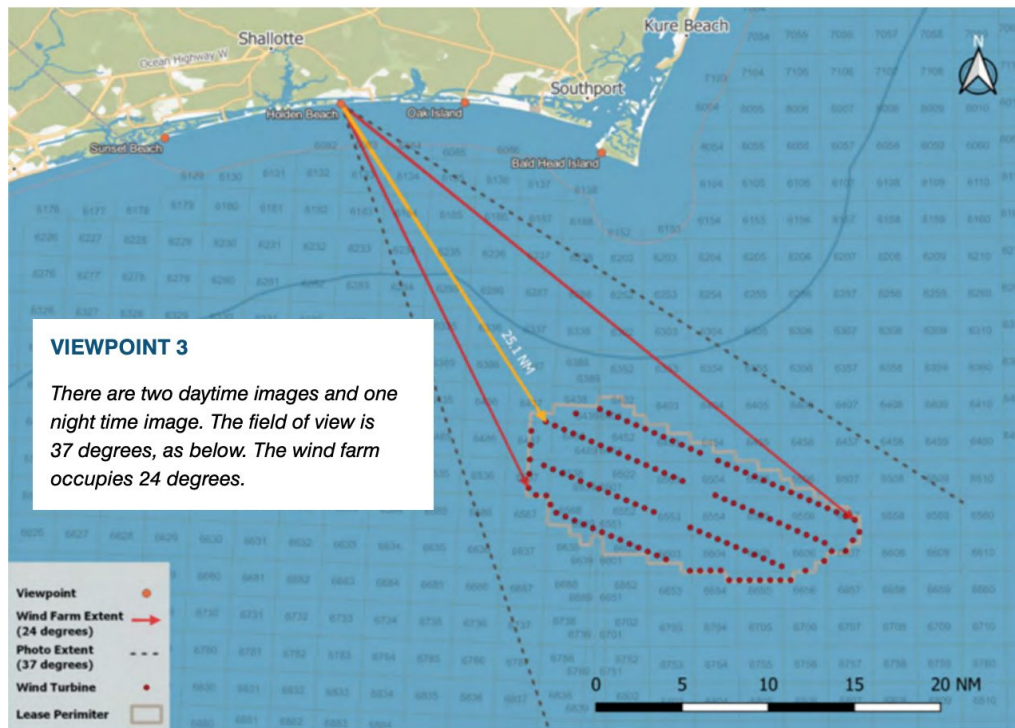
Sun Angle/Azimuth: 276 degrees

Lighting Angle: side lit

Sun Elevation: 8.1 degrees

Observed Weather: Partly cloudy

Lat/long: (33.9100 -78.3042)





VP3, Image 3: Holden Beach

Conditions: Starlit night, UV Haze

Date: April 14, 2012

Viewpoint Elevation: 9 feet

Camera Height: 5 feet 6 inches

Sun Angle/Azimuth: 276.5 degrees

Lighting Angle: side lit

Sun Elevation: 8.1 degrees

Observed Weather: Partly cloudy

Lat/long: (33.91384 -78.1612)

