

CUMULATIVE EFFECTS ANALYSIS FOR OCEAN WIND I

VIEWPOINT

Great Bay Boulevard Wildlife Management Area, Little Egg Harbor Township

VISUALIZATIONS

VISUALIZATIONS INCLUDED	
1A	Northeast view: only Ocean Wind 1
1B	Northeast view: all visible projects
1C	Northeast view: all visible projects except Ocean Wind 1
2A	Southeast view: only Ocean Wind 1
2B	Southeast view: all visible projects
2C	Southeast view: all visible projects except Ocean Wind 1

** New York Bight WEA is not visible from this viewpoint due to the land mass in the foreground.

CUMULATIVE PROJECT INFORMATION

OFFSHORE WIND PROJECT	THEORETICALLY VISIBLE FROM VIEWPOINT*	DISTANCE TO NEAREST WTG (mi)	DISTANCE TO FARTHEST WTG (mi)	NUMBER OF THEORETICALLY VISIBLE TURBINES	HORIZONTAL FIELD OF VIEW
New York Bight WEA	Yes	36.6	69.7	0**	0°
Atlantic Shores North	Yes	11.2	23.6	131	56°
Atlantic Shores South	Yes	11.9	28.0	202	43°
Ocean Wind 1	Yes	21.9	34.1	69	30°
Ocean Wind 2	Yes	26.3	41.9	24	14°
Ocean Wind X	Yes	16.4	24.0	33	26°
Garden State	No	55.8	66.1	0	0°
Skip Jack	No	64.2	71.6	0	0°
US Wind	No	76.4	89.2	0	0°

*A distance of 40-miles from each viewpoint has been used to define the limits of theoretical visibility. This 40-mile distance aligns with the visual study area used in the Ocean Wind Visual Impact Assessment. For an observation elevation of 25 feet (typical of views from the boardwalks on the coast of New Jersey), the limit of Ocean Wind turbine hub visibility would be 37.3 miles due to earth curvature. While the blade tips are located above the horizon beyond this range, they are unlikely to be detected by observers at these distances due to the limits of visual acuity.

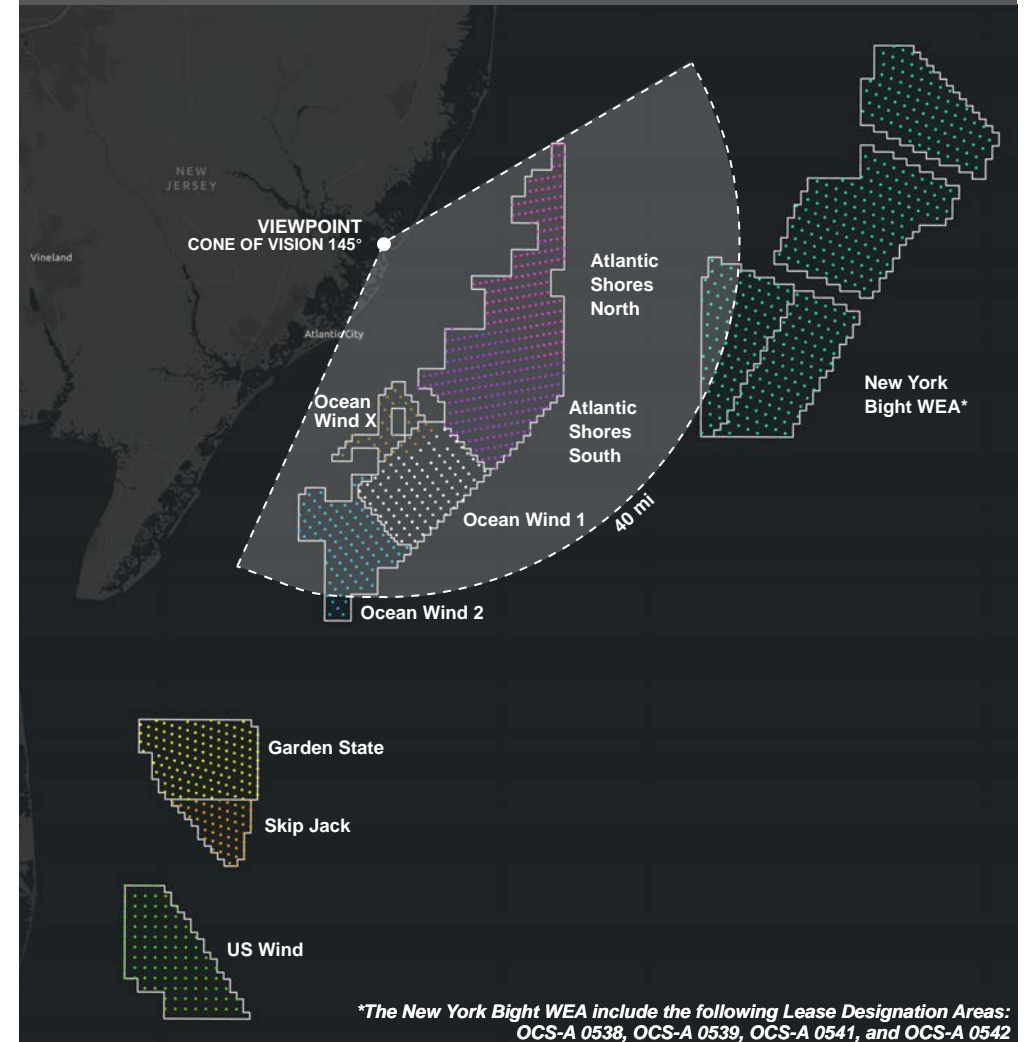
WIND DIRECTION

NORTHWEST
Turbine rotors and blades are modeled in all projects to face northwest to approximate the most visually impacting scenario.

VIEWPOINT INFORMATION

LOCATION		PHOTO		ENVIRONMENTAL	
VIA KOP #	V06	Camera	NIKON D5500	Temperature	72°
Date / Time	09/20/2018 / 9:40am	Resolution	300 dpi	Humidity	73%
Latitude / Longitude	39.508809° / -74.322008°	Focal Length	50 mm	Wind Speed	10 mph
Direction of View	Northeast to Southeast	Viewer Eye Elevation	7 ft	Weather Conditions	Overcast

CUMULATIVE PROJECT MAP



COMPLETE PANORAMIC VIEW



Panoramic Field of View: 145° (based on Nikon D5500 camera lens, where a Normal Photo is 37.26°)

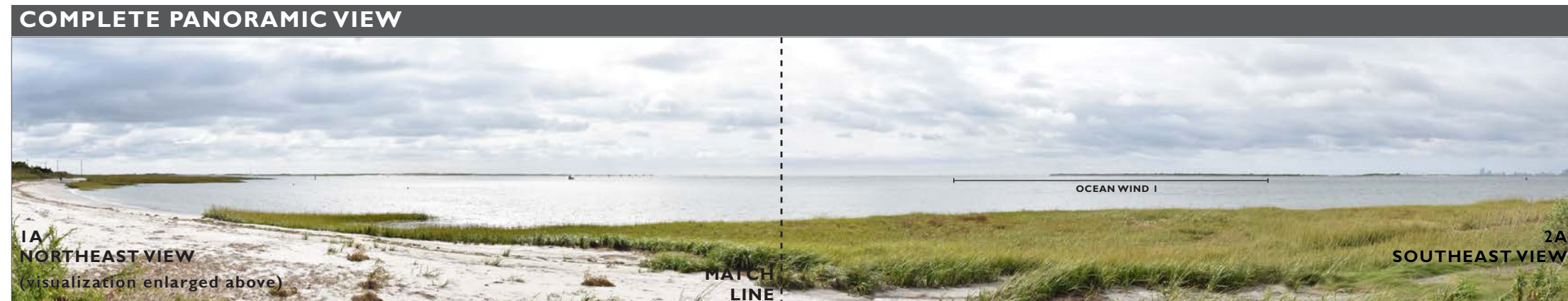
CUMULATIVE EFFECTS ANALYSIS FOR OCEAN WIND I

1A: Northeast view showing only Ocean Wind I Great Bay Boulevard Wildlife Management Area, Little Egg Harbor Township



Ocean Wind 1 not in view

Panoramic Field of View: 69°



WIND DIRECTION
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CUMULATIVE EFFECTS ANALYSIS FOR OCEAN WIND I

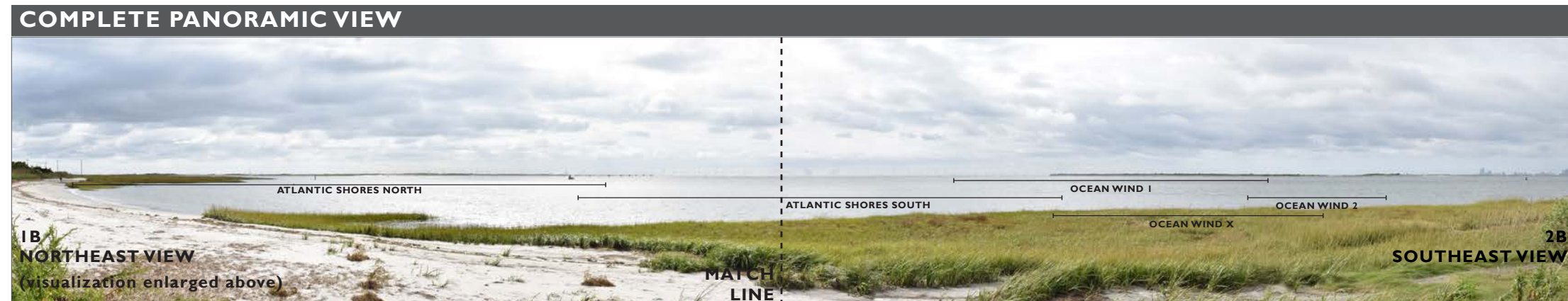
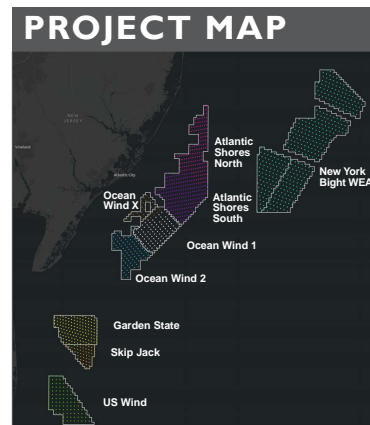
1B: Northeast view showing all visible projects

Great Bay Boulevard Wildlife Management Area, Little Egg Harbor Township



Ocean Wind 1 not in view

Panoramic Field of View: 69°



Panoramic Field of View: 145°

WIND DIRECTION
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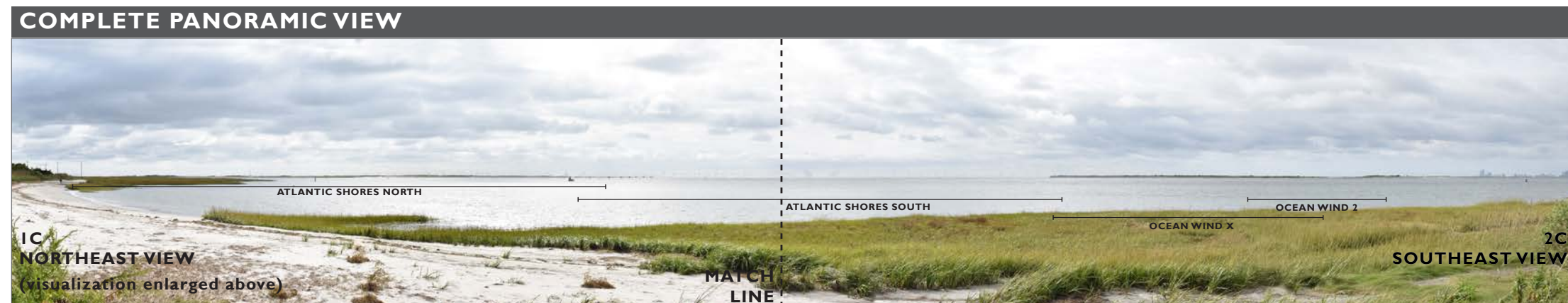
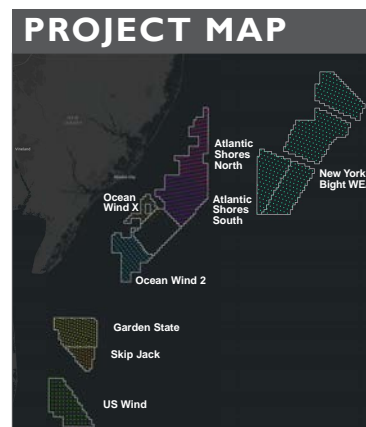
CUMULATIVE EFFECTS ANALYSIS FOR OCEAN WIND I

1C: Northeast view showing all projects except Ocean Wind I Great Bay Boulevard Wildlife Management Area, Little Egg Harbor Township



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Panoramic Field of View: 145°

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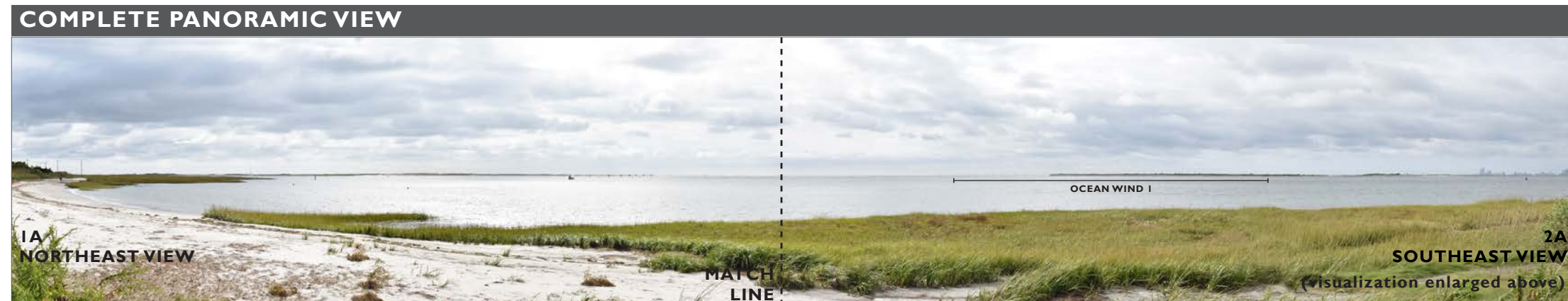


CUMULATIVE EFFECTS ANALYSIS FOR OCEAN WIND I

2A: Southeast view showing only Ocean Wind I Great Bay Boulevard Wildlife Management Area, Little Egg Harbor Township



Panoramic Field of View: 69°



Panoramic Field of View: 145°

WIND DIRECTION
NORTHWEST
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CUMULATIVE EFFECTS ANALYSIS FOR OCEAN WIND I

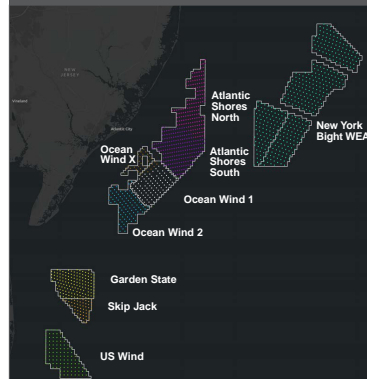
2B: Southeast view showing all visible projects

Great Bay Boulevard Wildlife Management Area, Little Egg Harbor Township



Panoramic Field of View: 69°

PROJECT MAP



COMPLETE PANORAMIC VIEW



Panoramic Field of View: 145°

WIND DIRECTION

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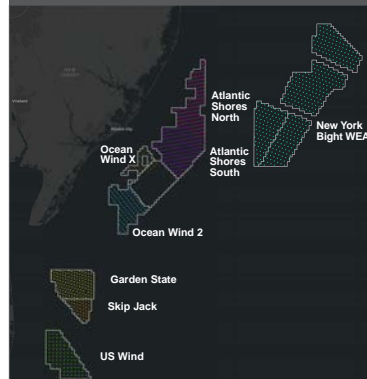
CUMULATIVE EFFECTS ANALYSIS FOR OCEAN WIND I

2C: Southeast view showing all projects except Ocean Wind I Great Bay Boulevard Wildlife Management Area, Little Egg Harbor Township



Panoramic Field of View: 69°

PROJECT MAP



COMPLETE PANORAMIC VIEW



Panoramic Field of View: 145°

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CUMULATIVE EFFECTS ANALYSIS FOR OCEAN WIND I

VIEWPOINT

Great Bay Boulevard Wildlife Management Area, Little Egg Harbor Township

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** New York Bight WEA is not visible from this viewpoint due to the land mass in the foreground.

CUMULATIVE PROJECT INFORMATION

OFFSHORE WIND PROJECT	THEORETICALLY VISIBLE FROM VIEWPOINT*	DISTANCE TO NEAREST WTG (mi)	DISTANCE TO FARTHEST WTG (mi)	NUMBER OF THEORETICALLY VISIBLE TURBINES	HORIZONTAL FIELD OF VIEW
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Garden State	No	55.8	66.1	0	0°
Skip Jack	No	64.2	71.6	0	0°
US Wind	No	76.4	89.2	0	0°

*A distance of 40-miles from each viewpoint has been used to define the limits of theoretical visibility. This 40-mile distance aligns with the visual study area used in the Ocean Wind Visual Impact Assessment. For an observation elevation of 25 feet (typical of views from the boardwalks on the coast of New Jersey), the limit of Ocean Wind turbine hub visibility would be 37.3 miles due to earth curvature. While the blade tips are located above the horizon beyond this range, they are unlikely to be detected by observers at these distances due to the limits of visual acuity.

WIND DIRECTION

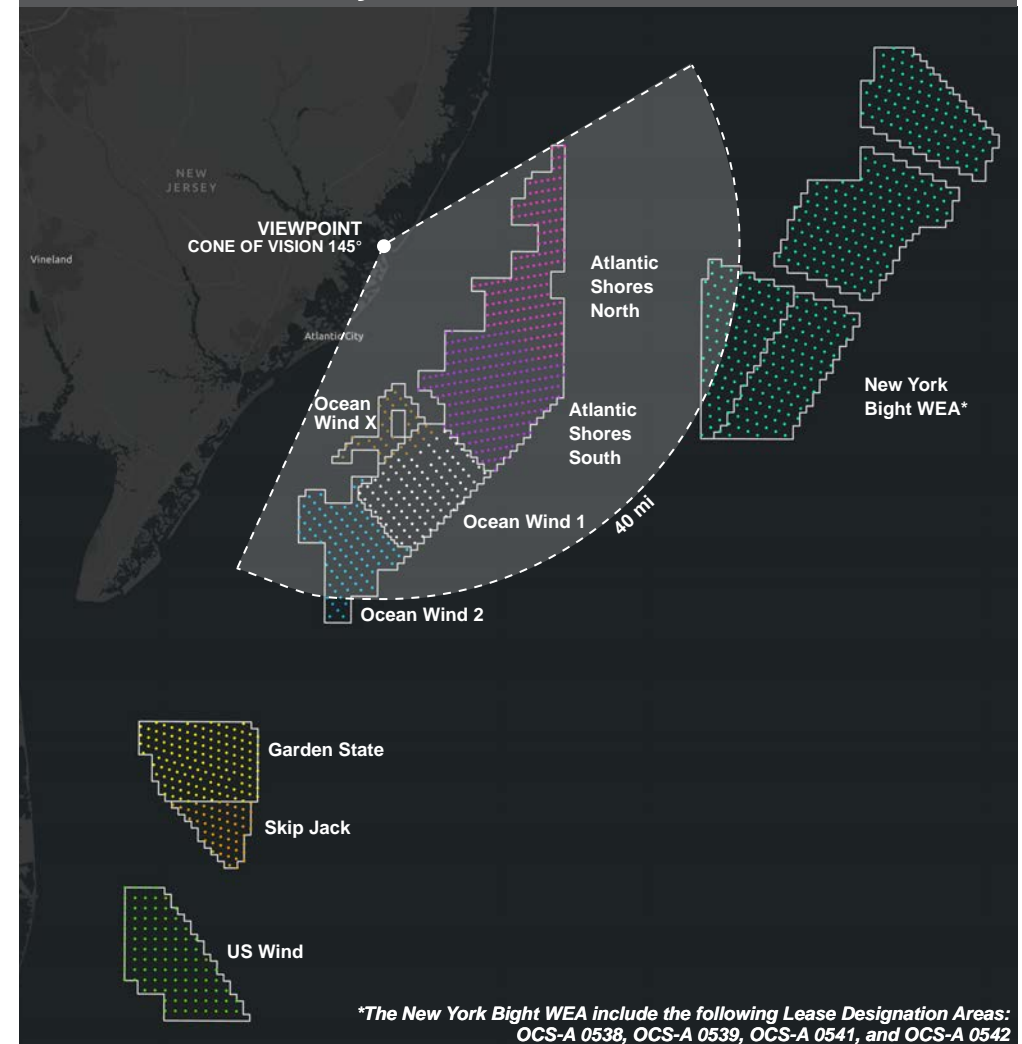
SOUTHWEST

Turbine rotors and blades are modeled in all projects to face southwest in accordance with prevailing winds.

VIEWPOINT INFORMATION

LOCATION		PHOTO		ENVIRONMENTAL	
VIA KOP #	V06	Camera	NIKON D5500	Temperature	72°
Date / Time	09/20/2018 / 9:40am	Resolution	300 dpi	Humidity	73%
Latitude / Longitude	39.508809° / -74.322008°	Focal Length	50 mm	Wind Speed	10 mph
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CUMULATIVE PROJECT MAP



COMPLETE PANORAMIC VIEW



Panoramic Field of View: 145° (based on Nikon D5500 camera lens, where a Normal Photo is 37.26°)

CUMULATIVE EFFECTS ANALYSIS FOR OCEAN WIND I

1A: Northeast view showing only Ocean Wind I Great Bay Boulevard Wildlife Management Area, Little Egg Harbor Township



Ocean Wind 1 not in view

Panoramic Field of View: 69°



COMPLETE PANORAMIC VIEW



Panoramic Field of View: 145°

WIND DIRECTION

SOUTHWEST

Turbine rotors and blades are modeled in all projects to face southwest in accordance with prevailing winds.



CUMULATIVE EFFECTS ANALYSIS FOR OCEAN WIND I

1B: Northeast view showing all visible projects

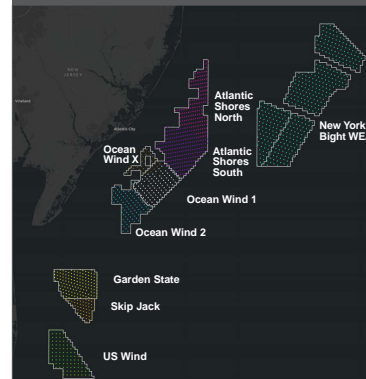
Great Bay Boulevard Wildlife Management Area, Little Egg Harbor Township



Ocean Wind 1 not in view

Panoramic Field of View: 69°

PROJECT MAP



COMPLETE PANORAMIC VIEW



Panoramic Field of View: 145°

WIND DIRECTION

SOUTHWEST

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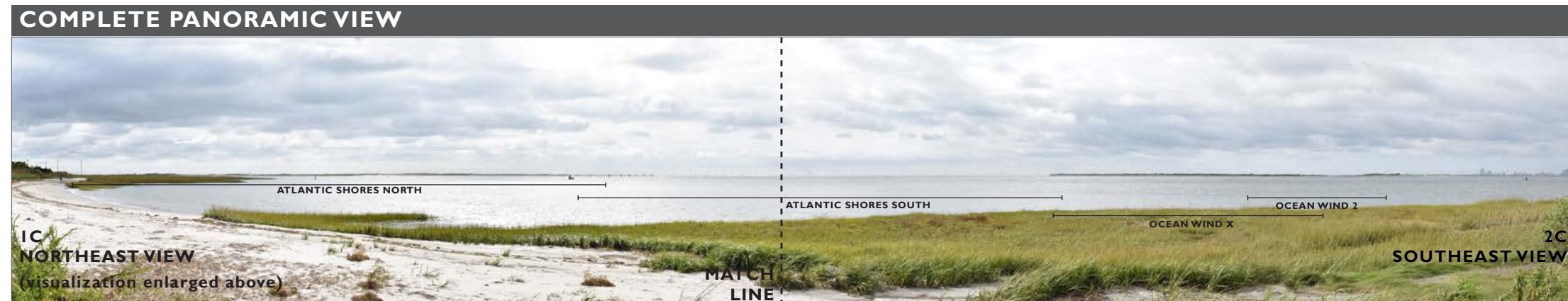
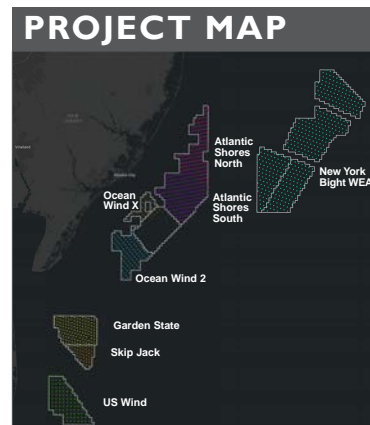
CUMULATIVE EFFECTS ANALYSIS FOR OCEAN WIND I

1C: Northeast view showing all projects except Ocean Wind I Great Bay Boulevard Wildlife Management Area, Little Egg Harbor Township



Ocean Wind 1 not in view

Panoramic Field of View: 69°



Panoramic Field of View: 145°

WIND DIRECTION

SOUTHWEST

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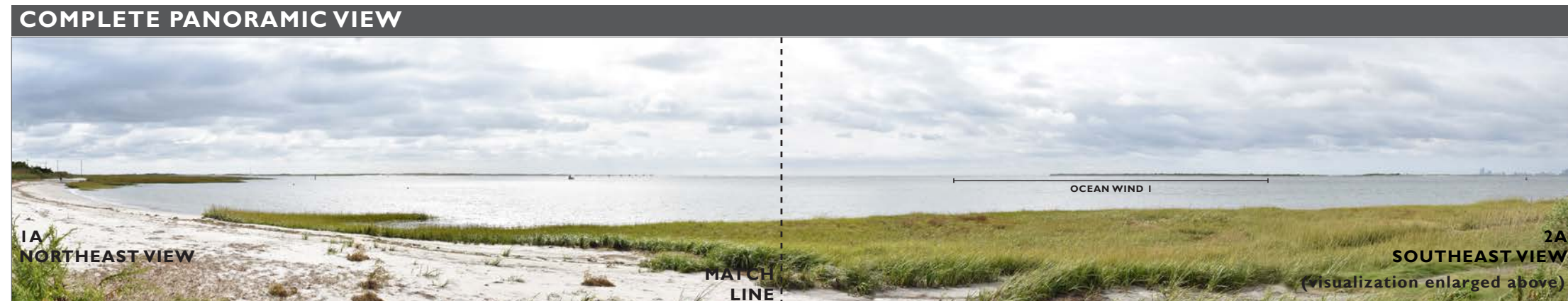


CUMULATIVE EFFECTS ANALYSIS FOR OCEAN WIND I

2A: Southeast view showing only Ocean Wind I Great Bay Boulevard Wildlife Management Area, Little Egg Harbor Township



Panoramic Field of View: 69°



Panoramic Field of View: 145°

WIND DIRECTION

SOUTHWEST

Turbine rotors and blades are modeled in all projects to face southwest in accordance with prevailing winds.



CUMULATIVE EFFECTS ANALYSIS FOR OCEAN WIND I

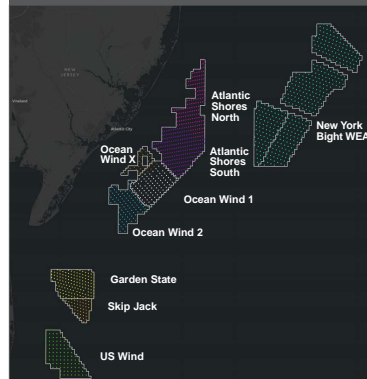
2B: Southeast view showing all visible projects

Great Bay Boulevard Wildlife Management Area, Little Egg Harbor Township



Panoramic Field of View: 69°

PROJECT MAP



COMPLETE PANORAMIC VIEW



Panoramic Field of View: 145°

WIND DIRECTION

SOUTHWEST
Turbine rotors and blades are modeled in all projects to face southwest in accordance with prevailing winds.

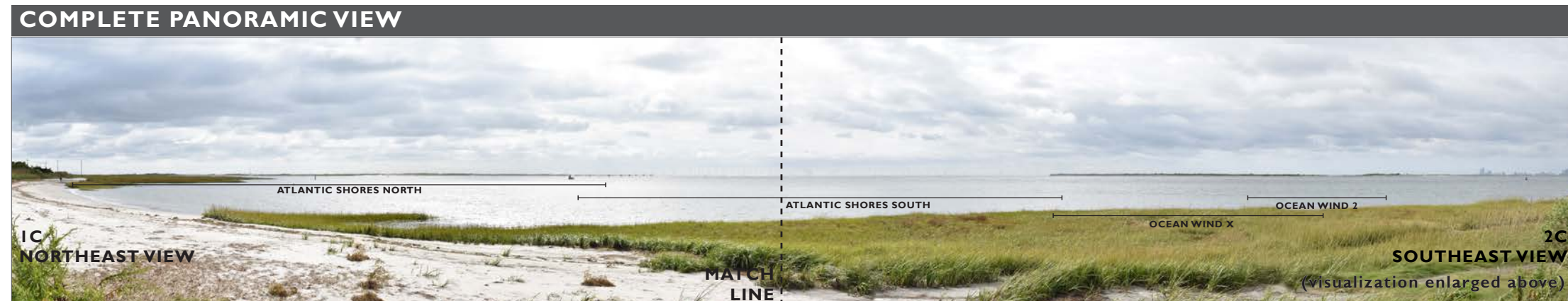


CUMULATIVE EFFECTS ANALYSIS FOR OCEAN WIND I

2C: Southeast view showing all projects except Ocean Wind I Great Bay Boulevard Wildlife Management Area, Little Egg Harbor Township



Panoramic Field of View: 69°



Panoramic Field of View: 145°

WIND DIRECTION
SOUTHWEST
Turbine rotors and blades are modeled in all projects to face southwest in accordance with prevailing winds.



CUMULATIVE EFFECTS ANALYSIS FOR OCEAN WIND I

VIEWPOINT Playground Pier, Atlantic City

VISUALIZATIONS

VISUALIZATIONS INCLUDED	
3A	Northeast view: only Ocean Wind 1
3B	Northeast view: all visible projects
3C	Northeast view: all visible projects except Ocean Wind 1
4A	Southeast view: only Ocean Wind 1
4B	Southeast view: all visible projects
4C	Southeast view: all visible projects except Ocean Wind 1

CUMULATIVE PROJECT INFORMATION

OFFSHORE WIND PROJECT	THEORETICALLY VISIBLE FROM VIEWPOINT*	DISTANCE TO NEAREST WTG (mi)	DISTANCE TO FARTHEST WTG (mi)	NUMBER OF THEORETICALLY VISIBLE TURBINES	HORIZONTAL FIELD OF VIEW
New York Bight WEA	No	42.3	78.0	0	0°
Atlantic Shores North	Yes	17.4	34.5	82	25°
Atlantic Shores South	Yes	11.2	26.6	202	43°
Ocean Wind 1	Yes	15.2	24.7	99	41°
Ocean Wind 2	Yes	15.8	30.7	88	30.6°
Ocean Wind X	Yes	9.0	15.2	33	46.8°
Garden State	No	43.8	53.9	0	0°
Skip Jack	No	52.4	59.8	0	0°
US Wind	No	64.2	77.2	0	0°

*A distance of 40-miles from each viewpoint has been used to define the limits of theoretical visibility. This 40-mile distance aligns with the visual study area used in the Ocean Wind Visual Impact Assessment. For an observation elevation of 25 feet (typical of views from the boardwalks on the coast of New Jersey), the limit of Ocean Wind turbine hub visibility would be 37.3 miles due to earth curvature. While the blade tips are located above the horizon beyond this range, they are unlikely to be detected by observers at these distances due to the limits of visual acuity.

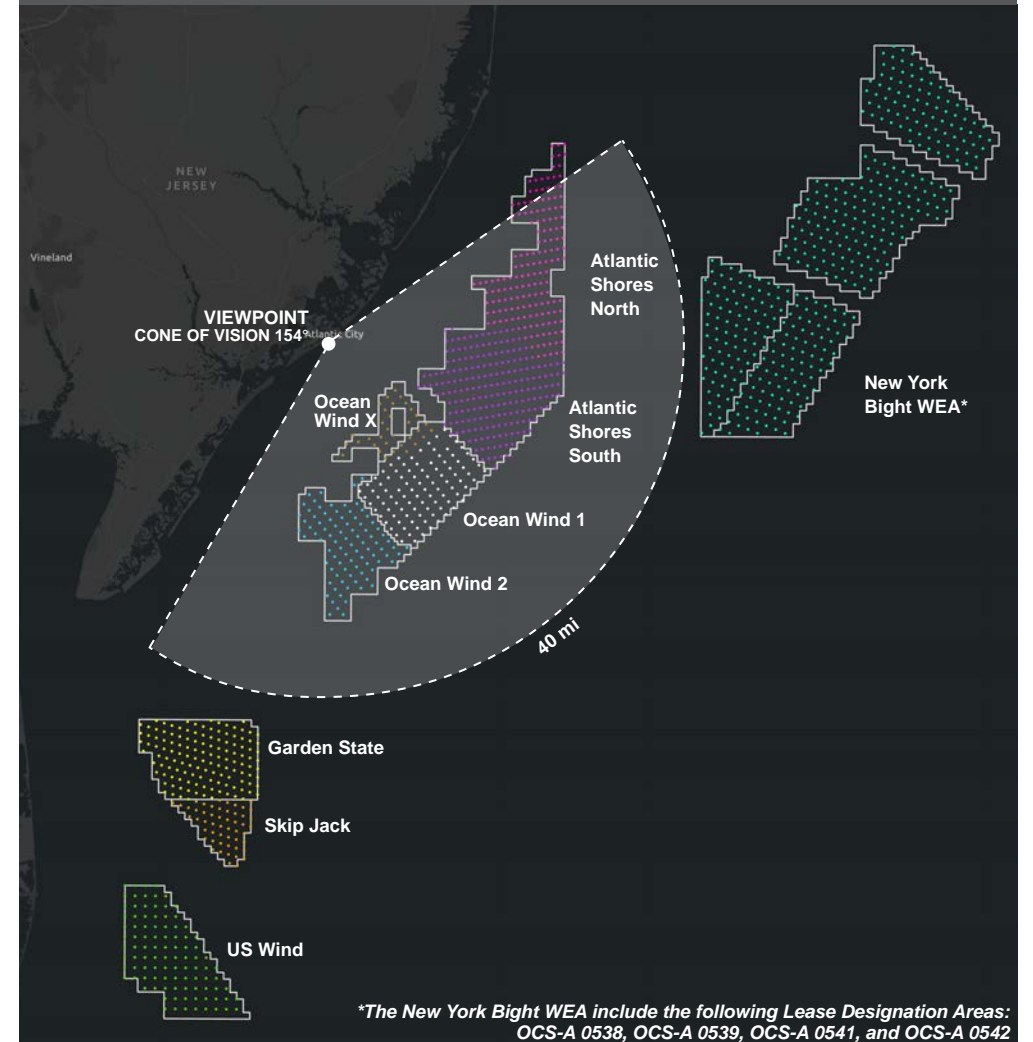
WIND DIRECTION

NORTHWEST
Turbine rotors and blades are modeled in all projects to face northwest to approximate the most visually impacting scenario.

VIEWPOINT INFORMATION

LOCATION		PHOTO		ENVIRONMENTAL	
VIA KOP #	V14	Camera	NIKON D750	Temperature	79°
Date / Time	09/19/2018 / 12:28pm	Resolution	300 dpi	Humidity	77%
Latitude / Longitude	39.35259 / -74.43357	Focal Length	50 mm	Wind Speed	7 mph
Direction of View	Northeast to Southeast	Viewer Eye Elevation	24.33 ft	Weather Conditions	Broken Clouds

CUMULATIVE PROJECT MAP



COMPLETE PANORAMIC VIEW



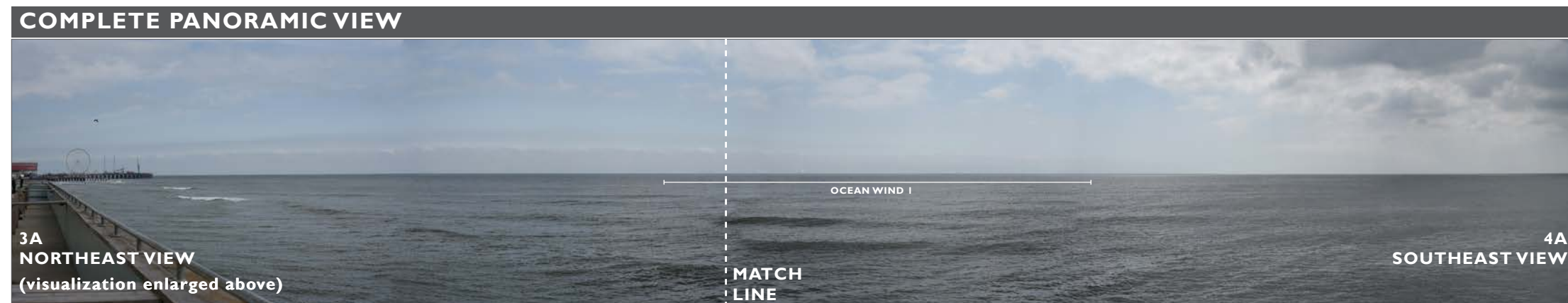
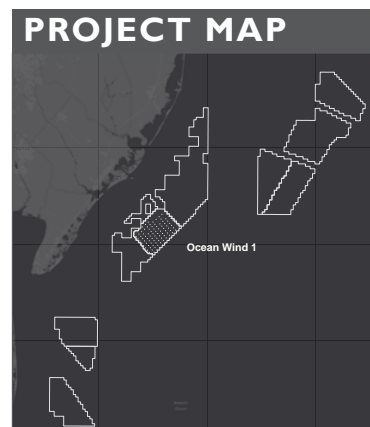
Panoramic Field of View: 154° (based on Nikon D750 camera lens, where a Normal Photo is 39.6°)

CUMULATIVE EFFECTS ANALYSIS FOR OCEAN WIND I

3A: Northeast view showing only Ocean Wind I Playground Pier, Atlantic City



Panoramic Field of View: 76°



Panoramic Field of View: 154°

WIND DIRECTION
NORTHWEST
Turbine rotors and blades are modeled in all projects to face northwest to approximate the most visually impacting scenario.

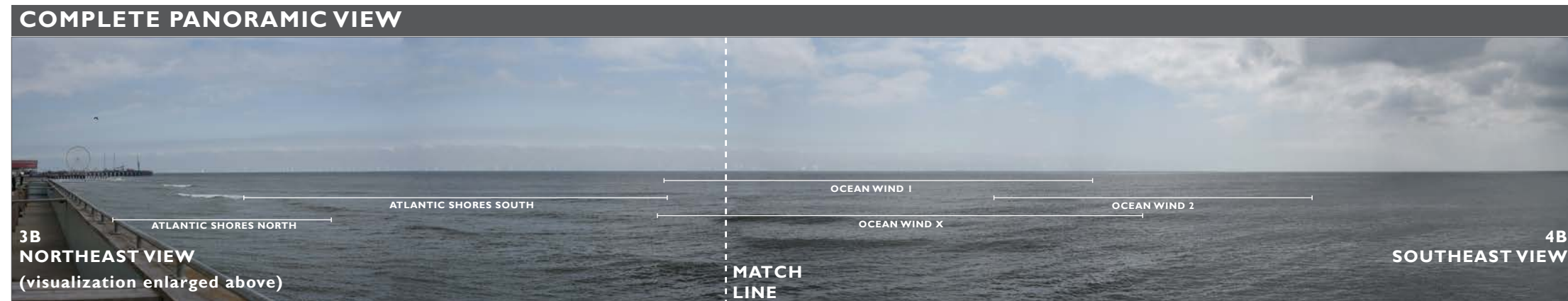
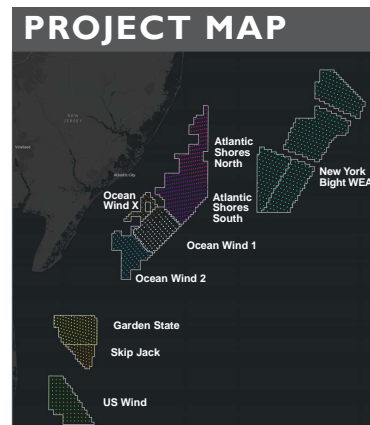


CUMULATIVE EFFECTS ANALYSIS FOR OCEAN WIND I

3B: Northeast view showing all visible projects Playground Pier, Atlantic City



Panoramic Field of View: 76°



Panoramic Field of View: 154°

WIND DIRECTION
NORTHWEST
Turbine rotors and blades are modeled in all projects to face northwest to approximate the most visually impacting scenario.

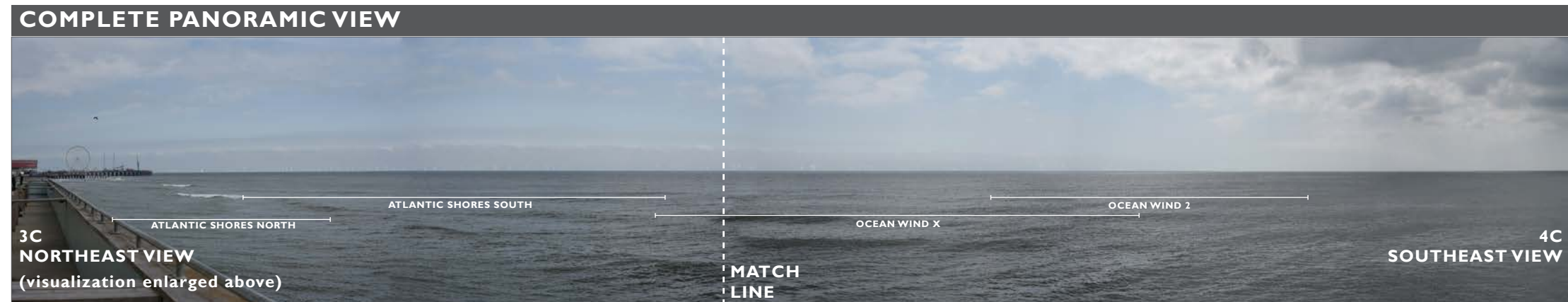
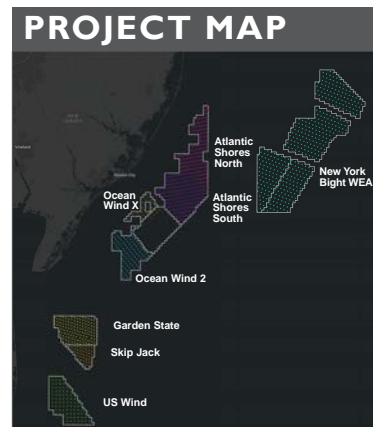


CUMULATIVE EFFECTS ANALYSIS FOR OCEAN WIND I

3C: Northeast view showing all projects except Ocean Wind I Playground Pier, Atlantic City



Panoramic Field of View: 76°



Panoramic Field of View: 154°

WIND DIRECTION
NORTHWEST
Turbine rotors and blades are modeled in all projects to face northwest to approximate the most visually impacting scenario.

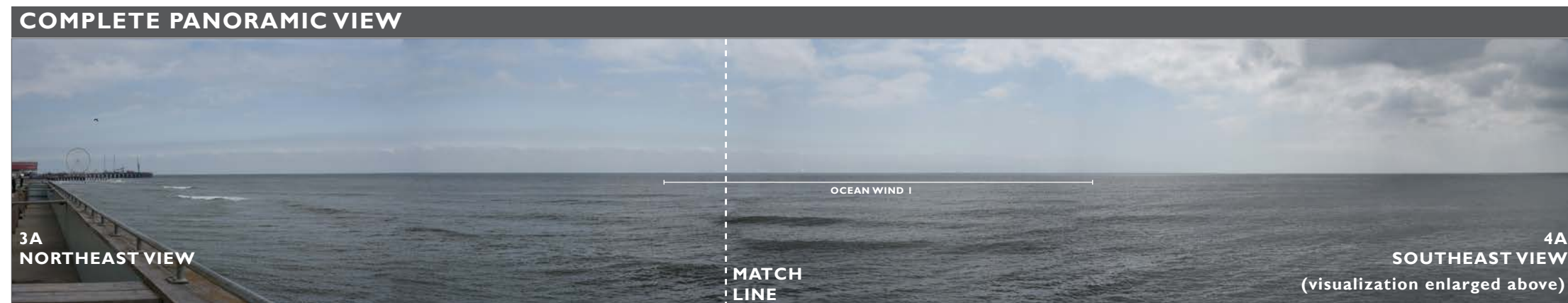


CUMULATIVE EFFECTS ANALYSIS FOR OCEAN WIND I

4A: Southeast view showing only Ocean Wind I Playground Pier, Atlantic City



Panoramic Field of View: 76°



Panoramic Field of View: 154°

WIND DIRECTION
NORTHWEST
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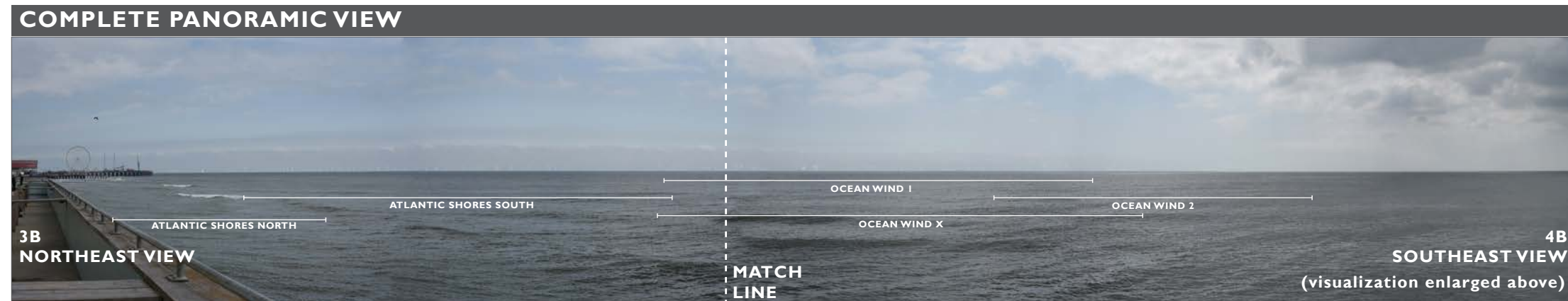
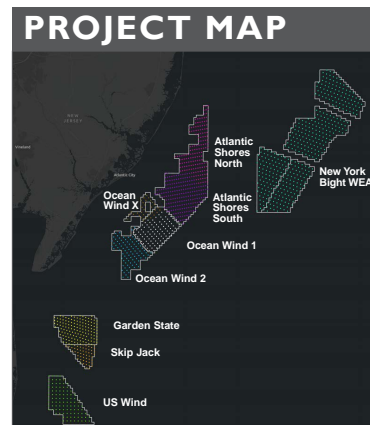


CUMULATIVE EFFECTS ANALYSIS FOR OCEAN WIND I

4B: Southeast view showing all visible projects Playground Pier, Atlantic City



Panoramic Field of View: 76°



Panoramic Field of View: 154°

WIND DIRECTION
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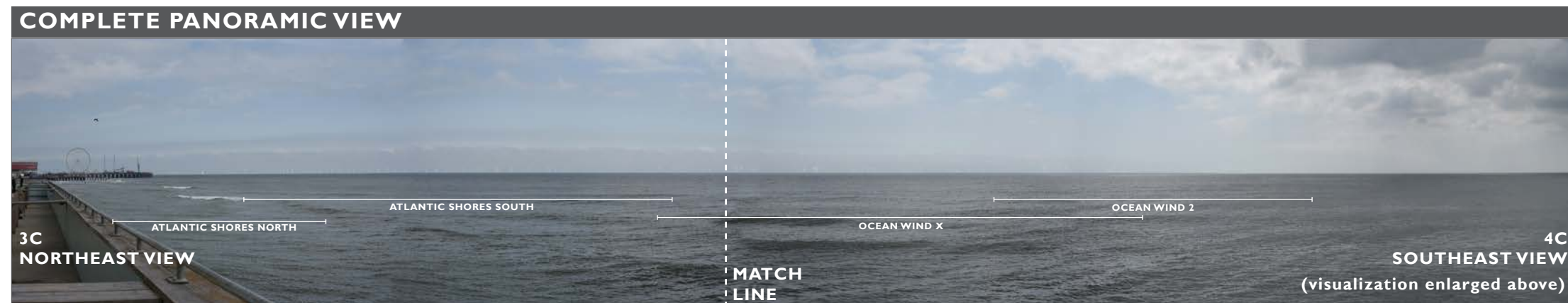
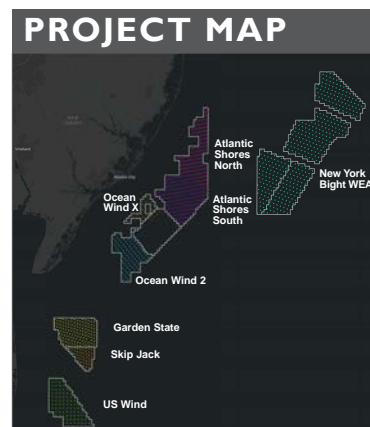


CUMULATIVE EFFECTS ANALYSIS FOR OCEAN WIND I

4C: Southeast view showing all projects except Ocean Wind I Playground Pier, Atlantic City



Panoramic Field of View: 76°



Panoramic Field of View: 154°

WIND DIRECTION
NORTHWEST
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CUMULATIVE EFFECTS ANALYSIS FOR OCEAN WIND I

VIEWPOINT Playground Pier, Atlantic City

VISUALIZATIONS

VISUALIZATIONS INCLUDED	
3A	Northeast view: only Ocean Wind 1
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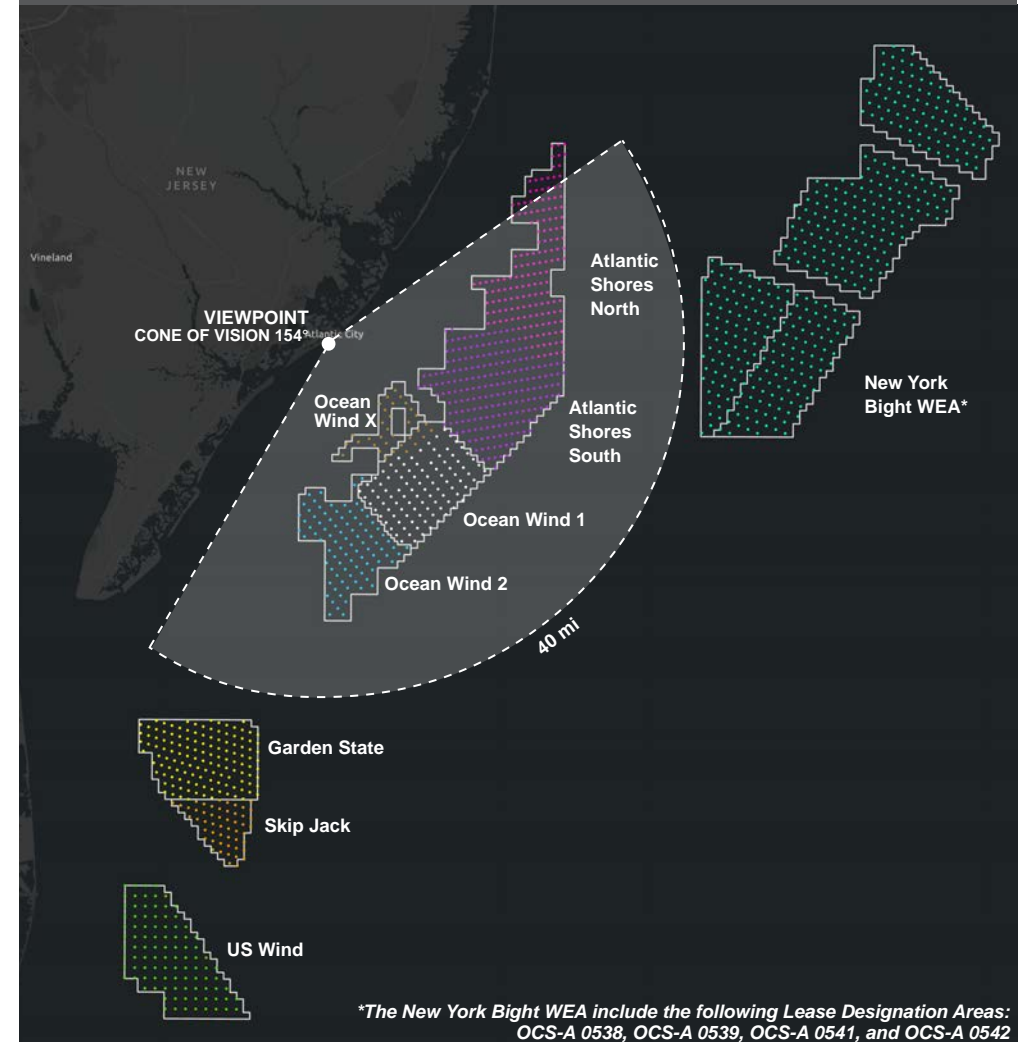
WIND DIRECTION

SOUTHWEST
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VIEWPOINT INFORMATION

LOCATION		PHOTO		ENVIRONMENTAL	
VIA KOP #	V14	Camera	NIKON D750	Temperature	79°
Date / Time	09/19/2018 / 12:28pm	Resolution	300 dpi	Humidity	77%
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CUMULATIVE PROJECT MAP



COMPLETE PANORAMIC VIEW



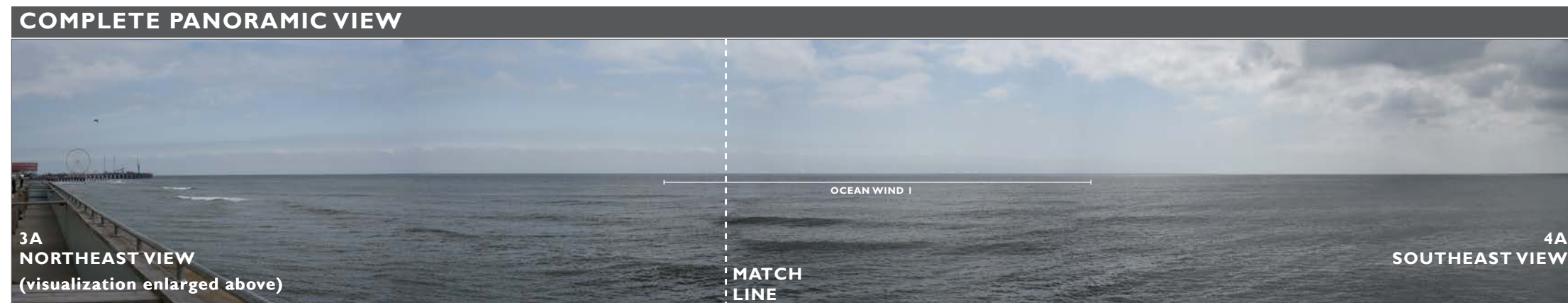
Panoramic Field of View: 154° (based on Nikon D750 camera lens, where a Normal Photo is 39.6°)

CUMULATIVE EFFECTS ANALYSIS FOR OCEAN WIND I

3A: Northeast view showing only Ocean Wind I Playground Pier, Atlantic City



Panoramic Field of View: 76°



Panoramic Field of View: 154°

WIND DIRECTION
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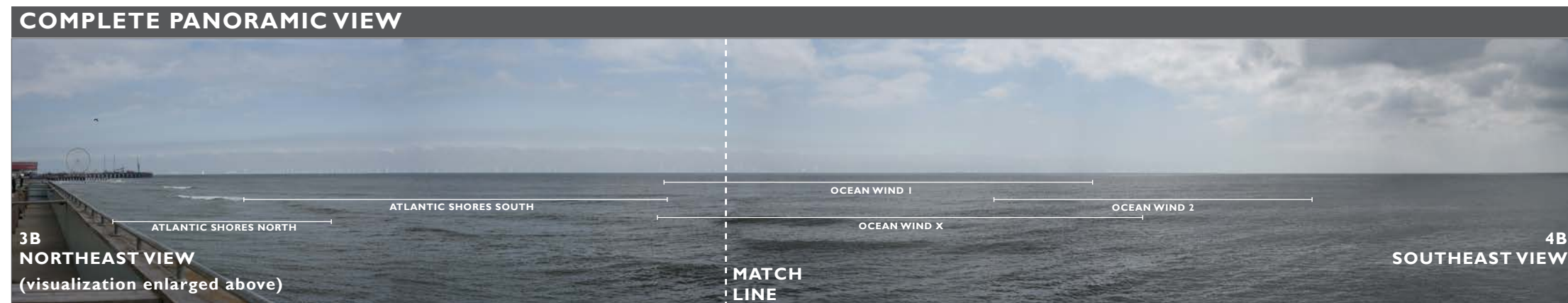
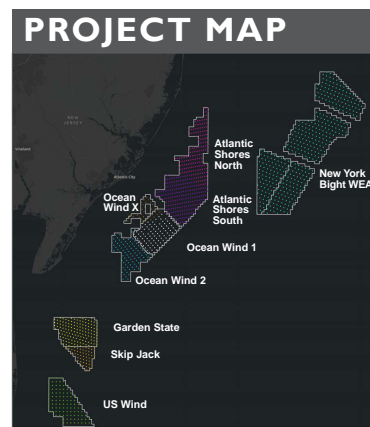


CUMULATIVE EFFECTS ANALYSIS FOR OCEAN WIND I

3B: Northeast view showing all visible projects Playground Pier, Atlantic City



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Panoramic Field of View: 154°

WIND DIRECTION
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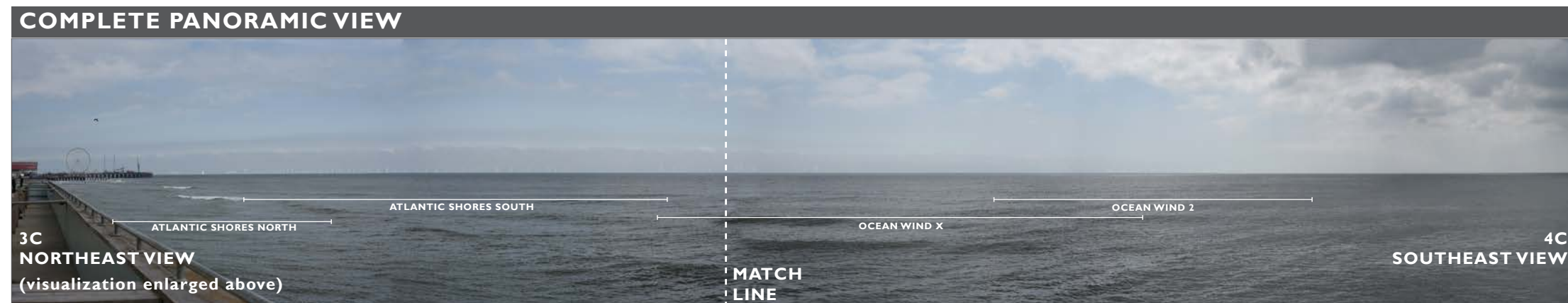
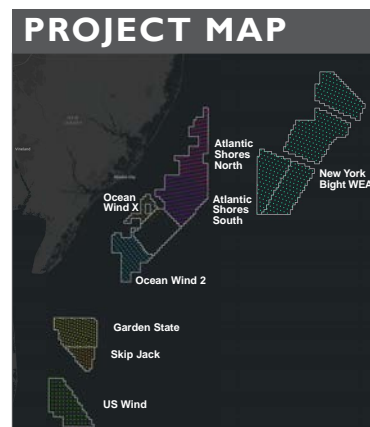


CUMULATIVE EFFECTS ANALYSIS FOR OCEAN WIND I

3C: Northeast view showing all projects except Ocean Wind I Playground Pier, Atlantic City



Panoramic Field of View: 76°



Panoramic Field of View: 154°

WIND DIRECTION
SOUTHWEST
Turbine rotors and blades are modeled in all projects to face southwest in accordance with prevailing winds.

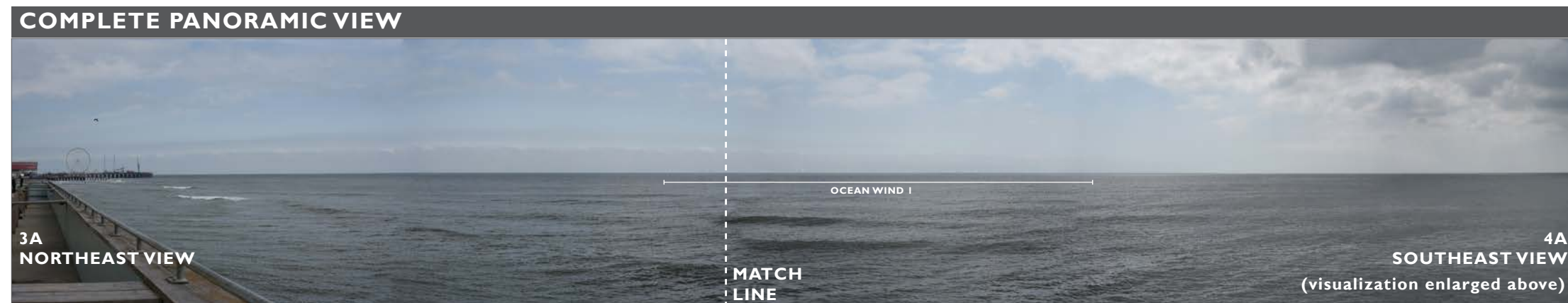
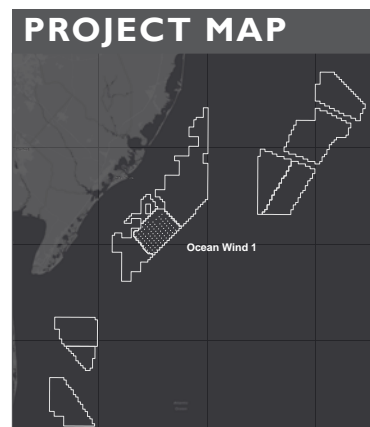


CUMULATIVE EFFECTS ANALYSIS FOR OCEAN WIND I

4A: Southeast view showing only Ocean Wind I Playground Pier, Atlantic City



Panoramic Field of View: 76°



Panoramic Field of View: 154°

WIND DIRECTION
SOUTHWEST
Turbine rotors and blades are modeled in all projects to face southwest in accordance with prevailing winds.

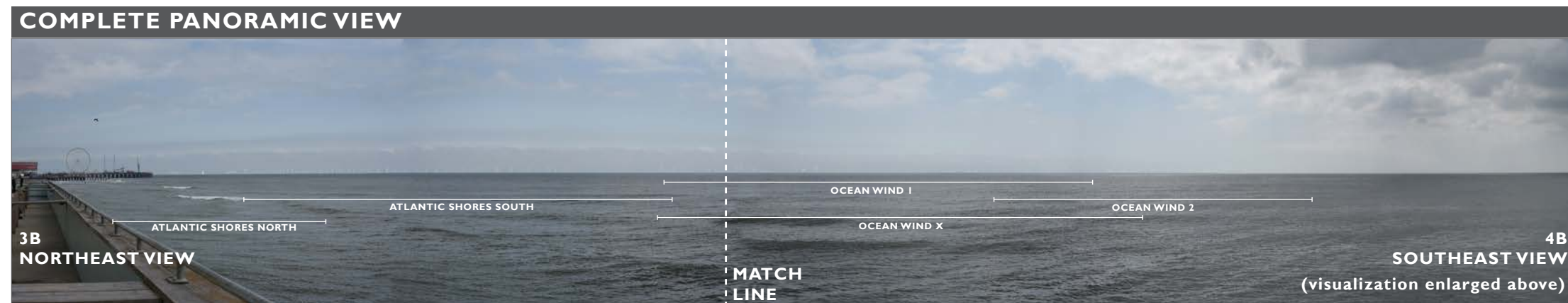
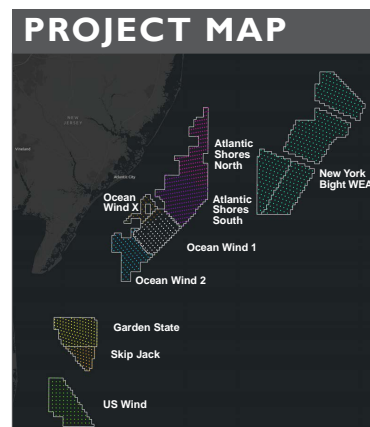


CUMULATIVE EFFECTS ANALYSIS FOR OCEAN WIND I

4B: Southeast view showing all visible projects Playground Pier, Atlantic City



Panoramic Field of View: 76°



Panoramic Field of View: 154°

WIND DIRECTION
SOUTHWEST
Turbine rotors and blades are modeled in all projects to face southwest in accordance with prevailing winds.

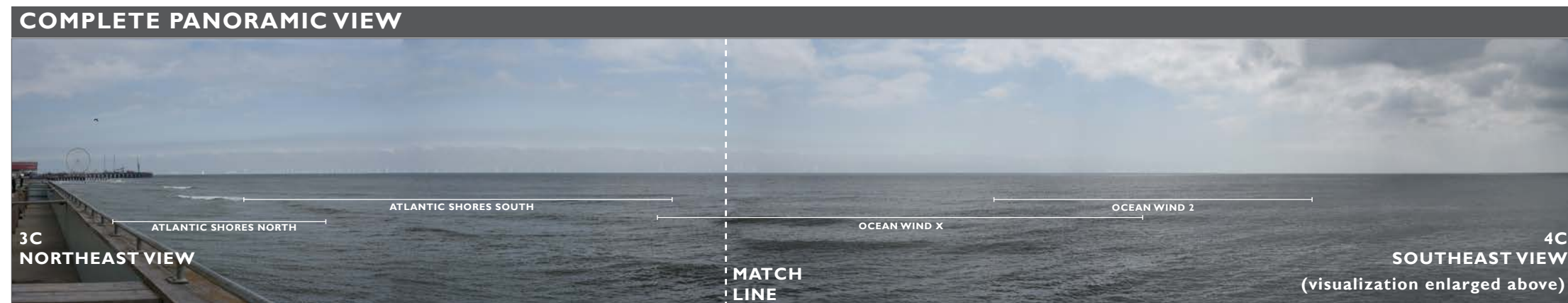
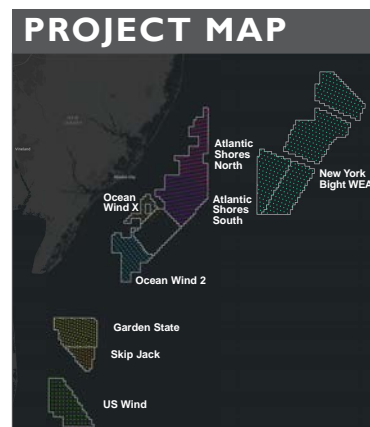


CUMULATIVE EFFECTS ANALYSIS FOR OCEAN WIND I

4C: Southeast view showing all projects except Ocean Wind I Playground Pier, Atlantic City



Panoramic Field of View: 76°



Panoramic Field of View: 154°

WIND DIRECTION
SOUTHWEST
Turbine rotors and blades are modeled in all projects to face southwest in accordance with prevailing winds.



CUMULATIVE EFFECTS ANALYSIS FOR OCEAN WIND I

VIEWPOINT

Corson's Inlet State Park, Ocean City

VISUALIZATIONS

VISUALIZATIONS INCLUDED	
5A	Northeast view: only Ocean Wind 1
5B	Northeast view: all visible projects
5C	Northeast view: all visible projects except Ocean Wind 1
6A	Southeast view: only Ocean Wind 1
6B	Southeast view: all visible projects
6C	Southeast view: all visible projects except Ocean Wind 1

CUMULATIVE PROJECT INFORMATION

OFFSHORE WIND PROJECT	THEORETICALLY VISIBLE FROM VIEWPOINT*	DISTANCE TO NEAREST WTG (mi)	DISTANCE TO FARTHEST WTG (mi)	NUMBER OF THEORETICALLY VISIBLE TURBINES	HORIZONTAL FIELD OF VIEW
New York Bight WEA	No	53.3	91.7	0	0°
Atlantic Shores North	Yes	31.3	49.2	101	25°
Atlantic Shores South	Yes	21.6	38.2	202	43°
Ocean Wind 1	Yes	16.2	29.1	99	34°
Ocean Wind 2	Yes	11.7	24.6	88	40.8°
Ocean Wind X	Yes	13.0	22.6	33	26.5°
Garden State	Yes	33.0	42.1	112	22°
Skip Jack	No	41.9	49.3	0	0°
US Wind	No	52.2	65.8	0	0°

*A distance of 40-miles from each viewpoint has been used to define the limits of theoretical visibility. This 40-mile distance aligns with the visual study area used in the Ocean Wind Visual Impact Assessment. For an observation elevation of 25 feet (typical of views from the boardwalks on the coast of New Jersey), the limit of Ocean Wind turbine hub visibility would be 37.3 miles due to earth curvature. While the blade tips are located above the horizon beyond this range, they are unlikely to be detected by observers at these distances due to the limits of visual acuity.

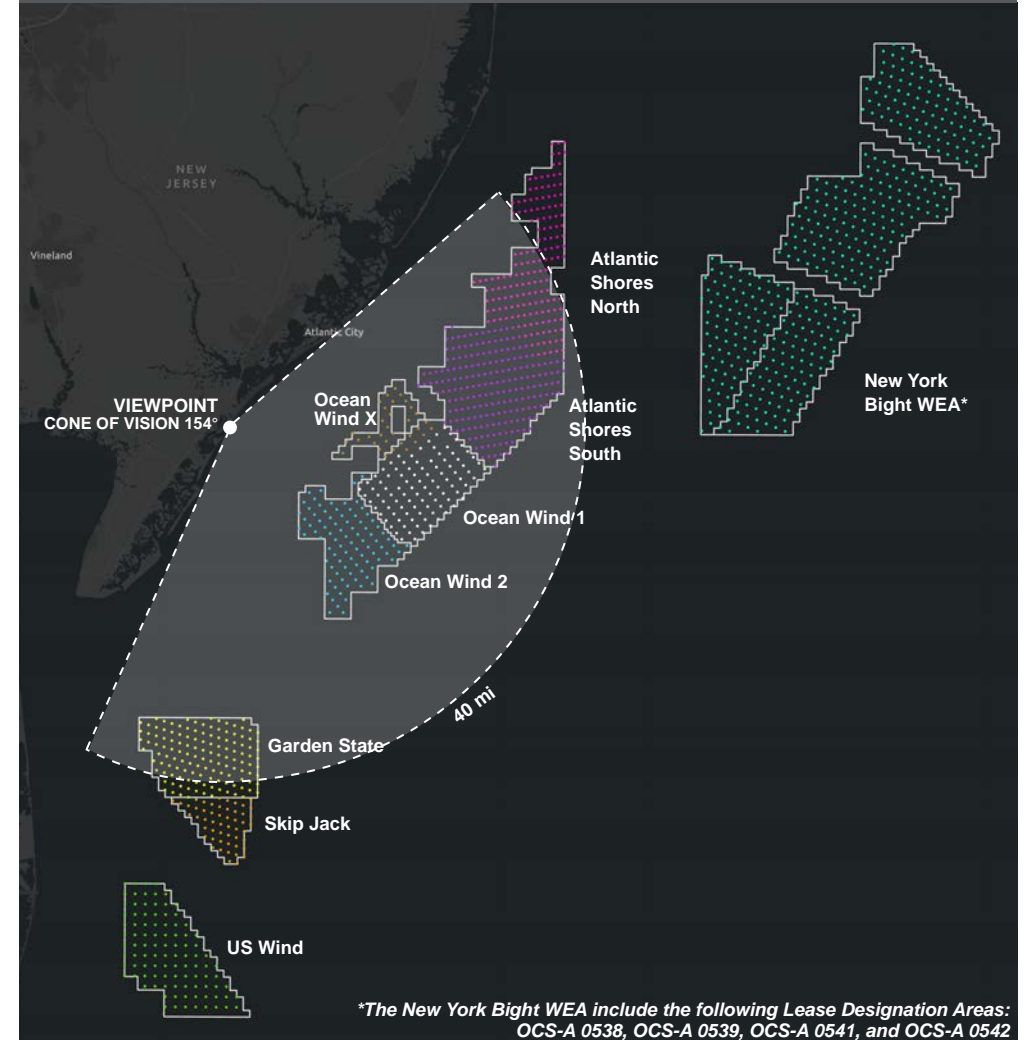
WIND DIRECTION

NORTHWEST
Turbine rotors and blades are modeled in all projects to face northwest to approximate the most visually impacting scenario.

VIEWPOINT INFORMATION

LOCATION		PHOTO		ENVIRONMENTAL	
VIA KOP #	V19	Camera	NIKON D750	Temperature	90°
Date / Time	08/15/2018 / 4:55pm	Resolution	300 dpi	Humidity	45%
Latitude / Longitude	39.213474° / -74.642627°	Focal Length	50 mm	Wind Speed	12 mph
Direction of View	Northeast to Southeast	Viewer Eye Elevation	15 ft	Weather Conditions	Sunny

CUMULATIVE PROJECT MAP



COMPLETE PANORAMIC VIEW



Panoramic Field of View: 154° (based on Nikon D750 camera lens, where a Normal Photo is 39.6°)

CUMULATIVE EFFECTS ANALYSIS FOR OCEAN WIND I

5A: Northeast view showing only Ocean Wind I Corson's Inlet State Park, Ocean City



Panoramic Field of View: 80°



Panoramic Field of View: 154°

WIND DIRECTION
NORTHWEST
Turbine rotors and blades are modeled in all projects to face northwest to approximate the most visually impacting scenario.

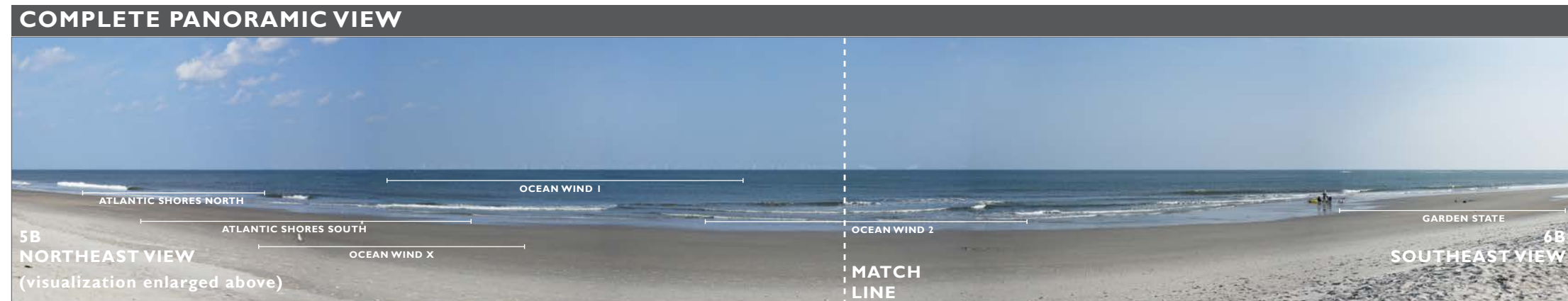
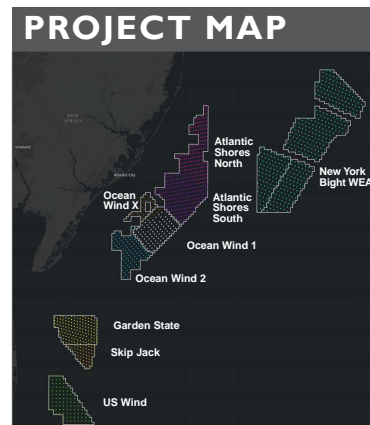


CUMULATIVE EFFECTS ANALYSIS FOR OCEAN WIND I

5B: Northeast view showing all visible projects Corson's Inlet State Park, Ocean City



Panoramic Field of View: 80°



Panoramic Field of View: 154°

WIND DIRECTION
NORTHWEST
Turbine rotors and blades are modeled in all projects to face northwest to approximate the most visually impacting scenario.

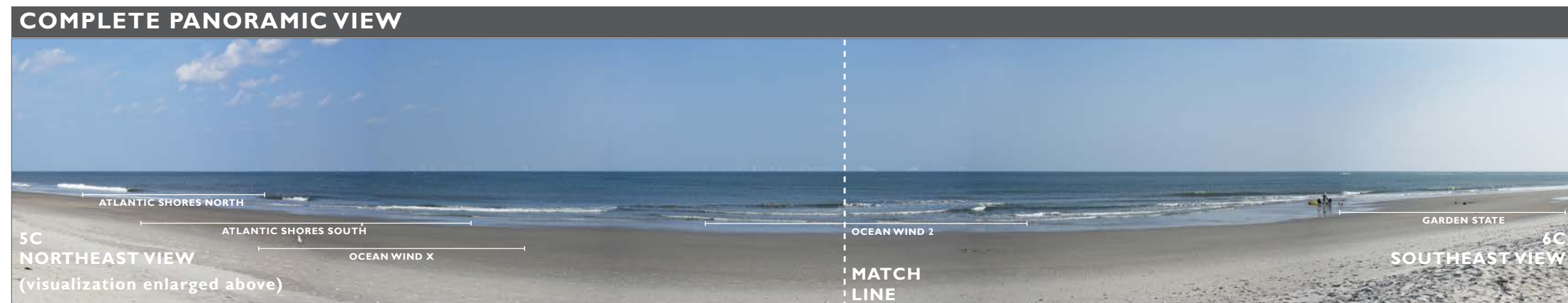
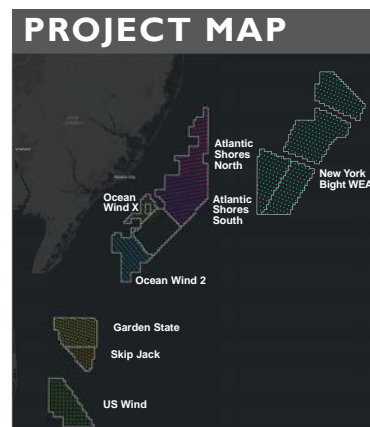


CUMULATIVE EFFECTS ANALYSIS FOR OCEAN WIND I

5C: Northeast view showing all projects except Ocean Wind I Corson's Inlet State Park, Ocean City



Panoramic Field of View: 80°



Panoramic Field of View: 154°

WIND DIRECTION
NORTHWEST
 Turbine rotors and blades are modeled in all projects to face northwest to approximate the most visually impacting scenario.

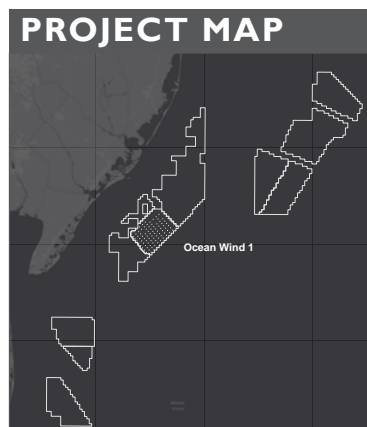


CUMULATIVE EFFECTS ANALYSIS FOR OCEAN WIND I

6A: Southeast view showing only Ocean Wind I Corson's Inlet State Park, Ocean City



Panoramic Field of View: 80°
Ocean Wind 1 not in view



Panoramic Field of View: 154°

WIND DIRECTION
NORTHWEST
Turbine rotors and blades are modeled in all projects to face northwest to approximate the most visually impacting scenario.

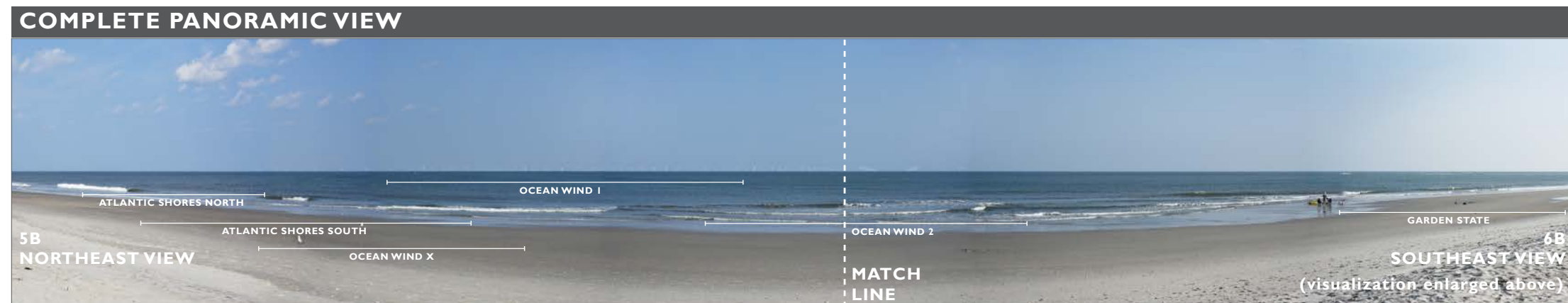
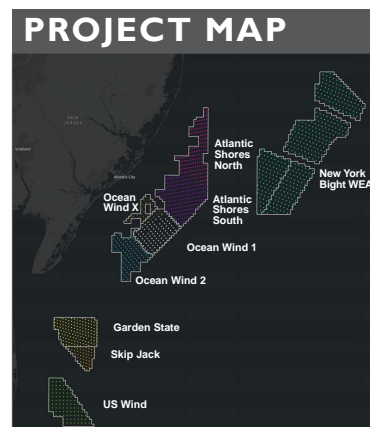


CUMULATIVE EFFECTS ANALYSIS FOR OCEAN WIND I

6B: Southeast view showing all visible projects Corson's Inlet State Park



Panoramic Field of View: 80°
Ocean Wind 1 not in view



Panoramic Field of View: 154°

WIND DIRECTION
NORTHWEST
Turbine rotors and blades are modeled in all projects to face northwest to approximate the most visually impacting scenario.

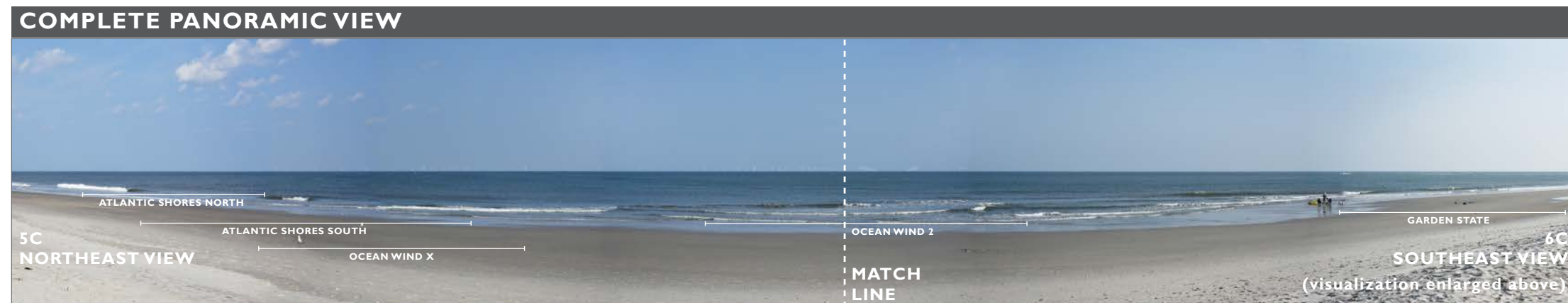
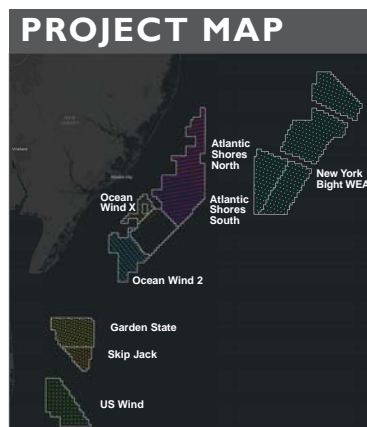


CUMULATIVE EFFECTS ANALYSIS FOR OCEAN WIND I

6C: Southeast view showing all projects except Ocean Wind I Corson's Inlet State Park



Panoramic Field of View: 80°
Ocean Wind 1 not in view



Panoramic Field of View: 154°

WIND DIRECTION
NORTHWEST
Turbine rotors and blades are modeled in all projects to face northwest to approximate the most visually impacting scenario.



CUMULATIVE EFFECTS ANALYSIS FOR OCEAN WIND I

VIEWPOINT

Corson's Inlet State Park, Ocean City

VISUALIZATIONS

VISUALIZATIONS INCLUDED	
5A	Northeast view: only Ocean Wind 1
5B	Northeast view: all visible projects
5C	Northeast view: all visible projects except Ocean Wind 1
6A	Southeast view: only Ocean Wind 1
6B	Southeast view: all visible projects
6C	Southeast view: all visible projects except Ocean Wind 1

CUMULATIVE PROJECT INFORMATION

OFFSHORE WIND PROJECT	THEORETICALLY VISIBLE FROM VIEWPOINT*	DISTANCE TO NEAREST WTG (mi)	DISTANCE TO FARTHEST WTG (mi)	NUMBER OF THEORETICALLY VISIBLE TURBINES	HORIZONTAL FIELD OF VIEW
New York Bight WEA	No	53.3	91.7	0	0°
Atlantic Shores North	Yes	31.3	49.2	101	25°
Atlantic Shores South	Yes	21.6	38.2	202	43°
Ocean Wind 1	Yes	16.2	29.1	99	34°
Ocean Wind 2	Yes	11.7	24.6	88	40.8°
Ocean Wind X	Yes	13.0	22.6	33	26.5°
Garden State	Yes	33.0	42.1	112	22°
Skip Jack	No	41.9	49.3	0	0°
US Wind	No	52.2	65.8	0	0°

*A distance of 40-miles from each viewpoint has been used to define the limits of theoretical visibility. This 40-mile distance aligns with the visual study area used in the Ocean Wind Visual Impact Assessment. For an observation elevation of 25 feet (typical of views from the boardwalks on the coast of New Jersey), the limit of Ocean Wind turbine hub visibility would be 37.3 miles due to earth curvature. While the blade tips are located above the horizon beyond this range, they are unlikely to be detected by observers at these distances due to the limits of visual acuity.

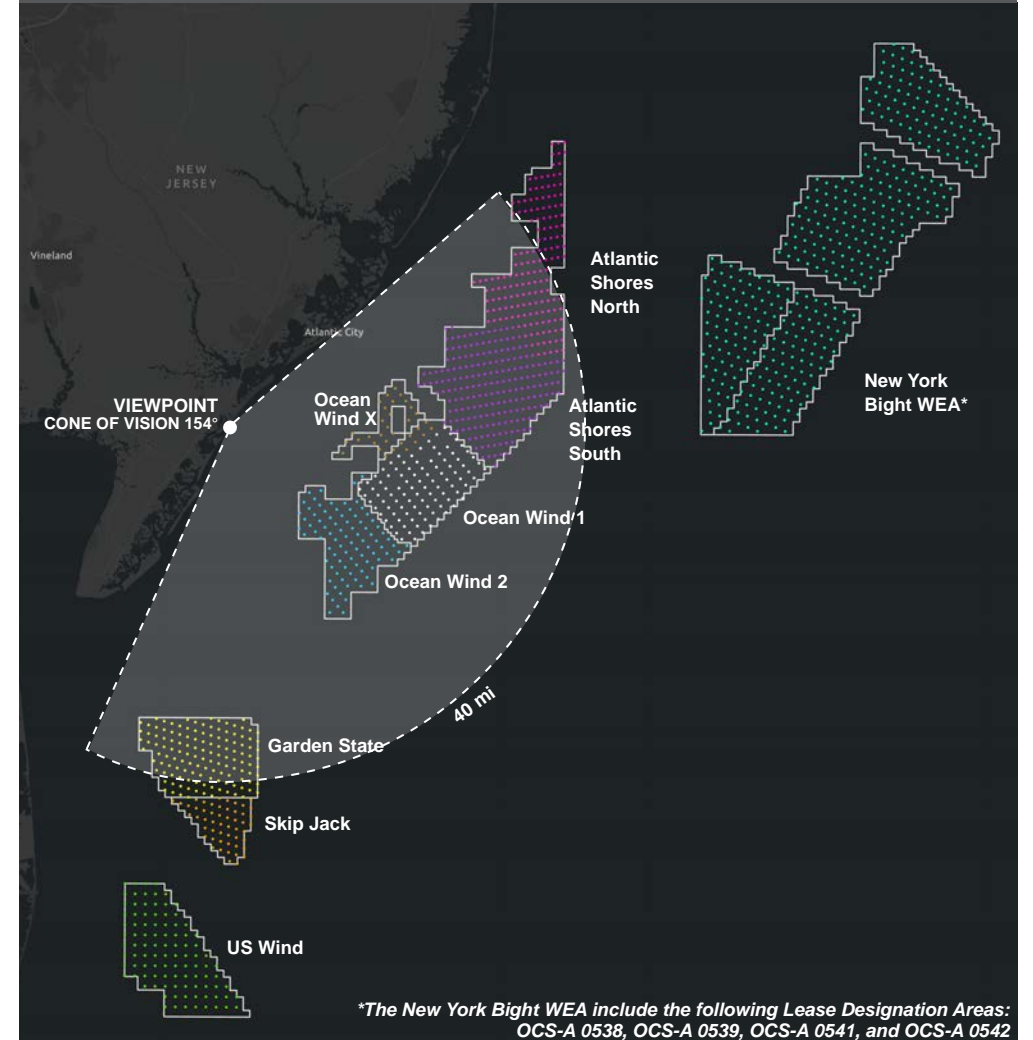
WIND DIRECTION

SOUTHWEST
Turbine rotors and blades are modeled in all projects to face southwest in accordance with prevailing winds.

VIEWPOINT INFORMATION

LOCATION		PHOTO		ENVIRONMENTAL	
VIA KOP #	V19	Camera	NIKON D750	Temperature	90°
Date / Time	08/15/2018 / 4:55pm	Resolution	300 dpi	Humidity	45%
Latitude / Longitude	39.213474° / -74.642627°	Focal Length	50 mm	Wind Speed	12 mph
Direction of View	Northeast to Southeast	Viewer Eye Elevation	15 ft	Weather Conditions	Sunny

CUMULATIVE PROJECT MAP



COMPLETE PANORAMIC VIEW



Panoramic Field of View: 154° (based on Nikon D750 camera lens, where a Normal Photo is 39.6°)

CUMULATIVE EFFECTS ANALYSIS FOR OCEAN WIND I

5A: Northeast view showing only Ocean Wind I Corson's Inlet State Park, Ocean City



Panoramic Field of View: 80°



Panoramic Field of View: 154°

WIND DIRECTION
SOUTHWEST
Turbine rotors and blades are modeled in all projects to face southwest in accordance with prevailing winds.

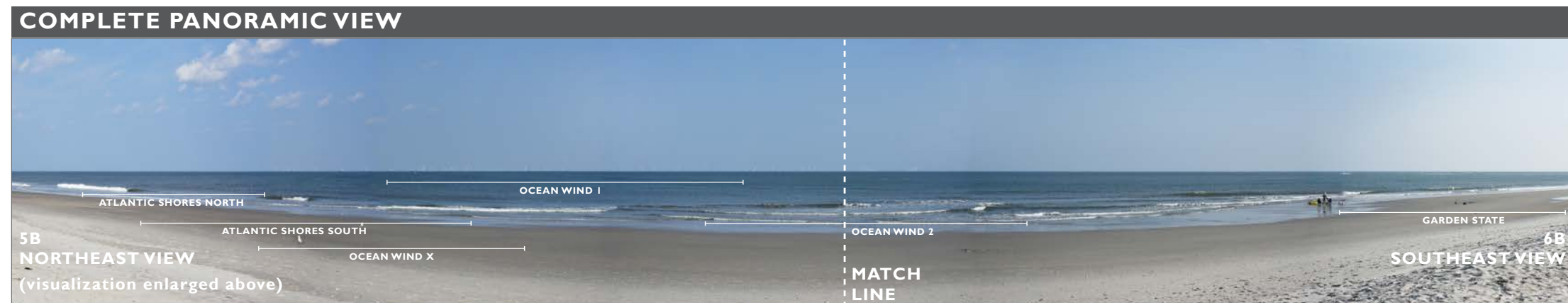
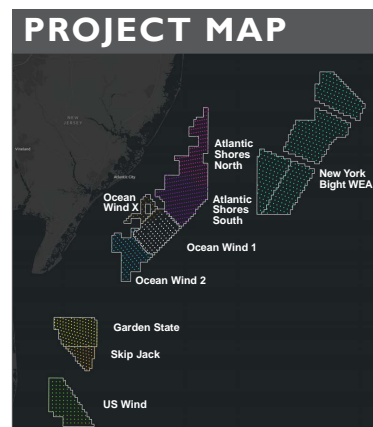


CUMULATIVE EFFECTS ANALYSIS FOR OCEAN WIND I

5B: Northeast view showing all visible projects Corson's Inlet State Park, Ocean City



Panoramic Field of View: 80°



Panoramic Field of View: 154°

WIND DIRECTION
SOUTHWEST
Turbine rotors and blades are modeled in all projects to face southwest in accordance with prevailing winds.

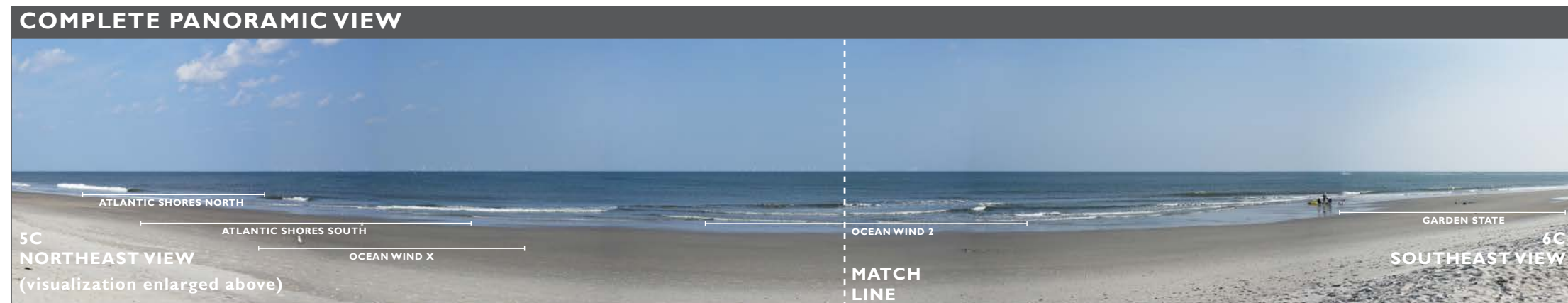
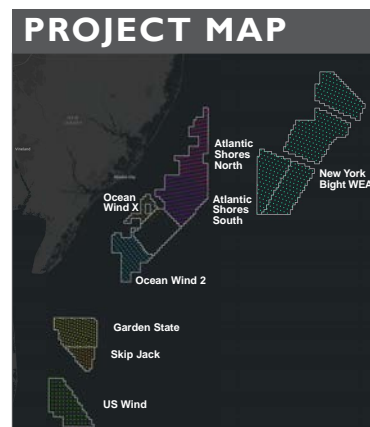


CUMULATIVE EFFECTS ANALYSIS FOR OCEAN WIND I

5C: Northeast view showing all projects except Ocean Wind I Corson's Inlet State Park, Ocean City



Panoramic Field of View: 80°



Panoramic Field of View: 154°

WIND DIRECTION
SOUTHWEST
 Turbine rotors and blades are modeled in all projects to face southwest in accordance with prevailing winds.



CUMULATIVE EFFECTS ANALYSIS FOR OCEAN WIND I

6A: Southeast view showing only Ocean Wind I Corson's Inlet State Park, Ocean City



Panoramic Field of View: 80°
Ocean Wind 1 not in view



Panoramic Field of View: 154°

WIND DIRECTION
SOUTHWEST
Turbine rotors and blades are modeled in all projects to face southwest in accordance with prevailing winds.

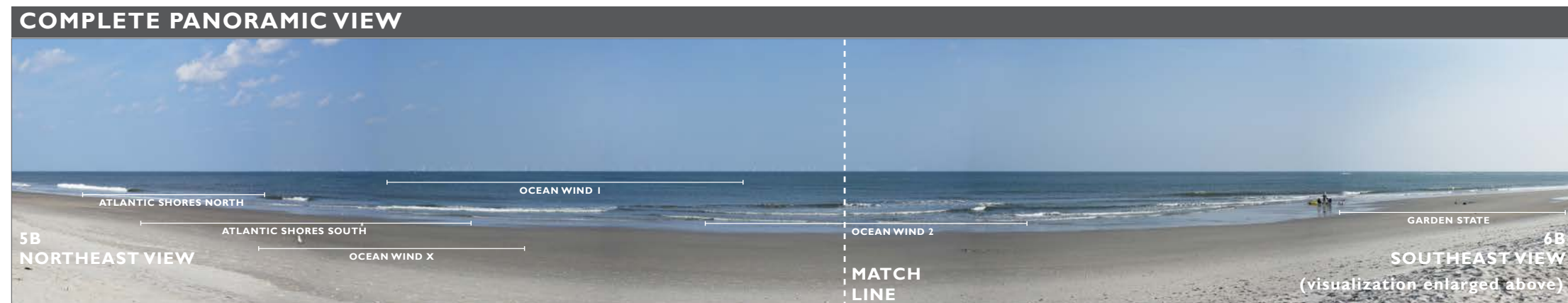
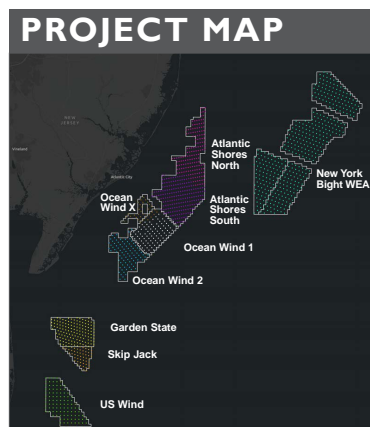


CUMULATIVE EFFECTS ANALYSIS FOR OCEAN WIND I

6B: Southeast view showing all visible projects Corson's Inlet State Park



Panoramic Field of View: 80°
Ocean Wind 1 not in view



Panoramic Field of View: 154°

WIND DIRECTION
SOUTHWEST
Turbine rotors and blades are modeled in all projects to face southwest in accordance with prevailing winds.

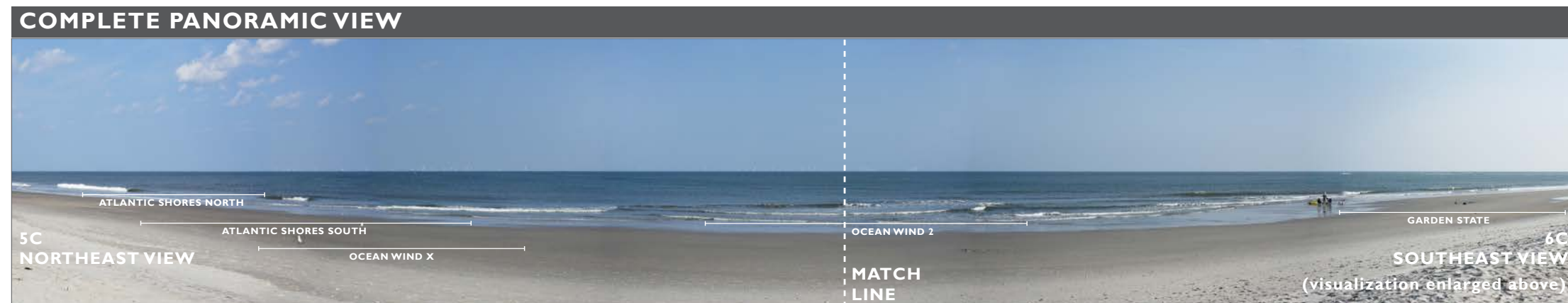
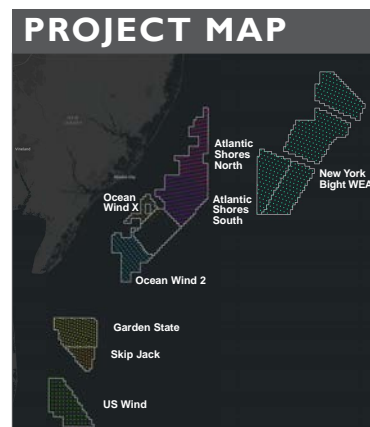


CUMULATIVE EFFECTS ANALYSIS FOR OCEAN WIND I

6C: Southeast view showing all projects except Ocean Wind I Corson's Inlet State Park



Panoramic Field of View: 80°
Ocean Wind 1 not in view



Panoramic Field of View: 154°

WIND DIRECTION
SOUTHWEST
Turbine rotors and blades are modeled in all projects to face southwest in accordance with prevailing winds.



CUMULATIVE EFFECTS ANALYSIS FOR OCEAN WIND I

VIEWPOINT

Stone Harbor Beach Access, Stone Harbor

VISUALIZATIONS

VISUALIZATIONS INCLUDED	
7A	Northeast view: only Ocean Wind 1
7B	Northeast view: all visible projects
7C	Northeast view: all visible projects except Ocean Wind 1
8A	Southeast view: only Ocean Wind 1
8B	Southeast view: all visible projects
8C	Southeast view: all visible projects except Ocean Wind 1

CUMULATIVE PROJECT INFORMATION

OFFSHORE WIND PROJECT	THEORETICALLY VISIBLE FROM VIEWPOINT*	DISTANCE TO NEAREST WTG (mi)	DISTANCE TO FARTHEST WTG (mi)	NUMBER OF THEORETICALLY VISIBLE TURBINES	HORIZONTAL FIELD OF VIEW
New York Bight WEA	No	60.2	101.6	0	0°
Atlantic Shores North	No	41.8	61.2	0	0°
Atlantic Shores South	Yes	31.3	47.2	184	24°
Ocean Wind 1	Yes	20.9	35.2	99	34°
Ocean Wind 2	Yes	13.7	26.0	88	44.4°
Ocean Wind X	Yes	20.3	30.6	33	13.9°
Garden State	Yes	22.0	31.5	131	32°
Skip Jack	Yes	31.0	38.8	52	16°
US Wind	No	40.5	54.7	0	0°

*A distance of 40-miles from each viewpoint has been used to define the limits of theoretical visibility. This 40-mile distance aligns with the visual study area used in the Ocean Wind Visual Impact Assessment. For an observation elevation of 25 feet (typical of views from the boardwalks on the coast of New Jersey), the limit of Ocean Wind turbine hub visibility would be 37.3 miles due to earth curvature. While the blade tips are located above the horizon beyond this range, they are unlikely to be detected by observers at these distances due to the limits of visual acuity.

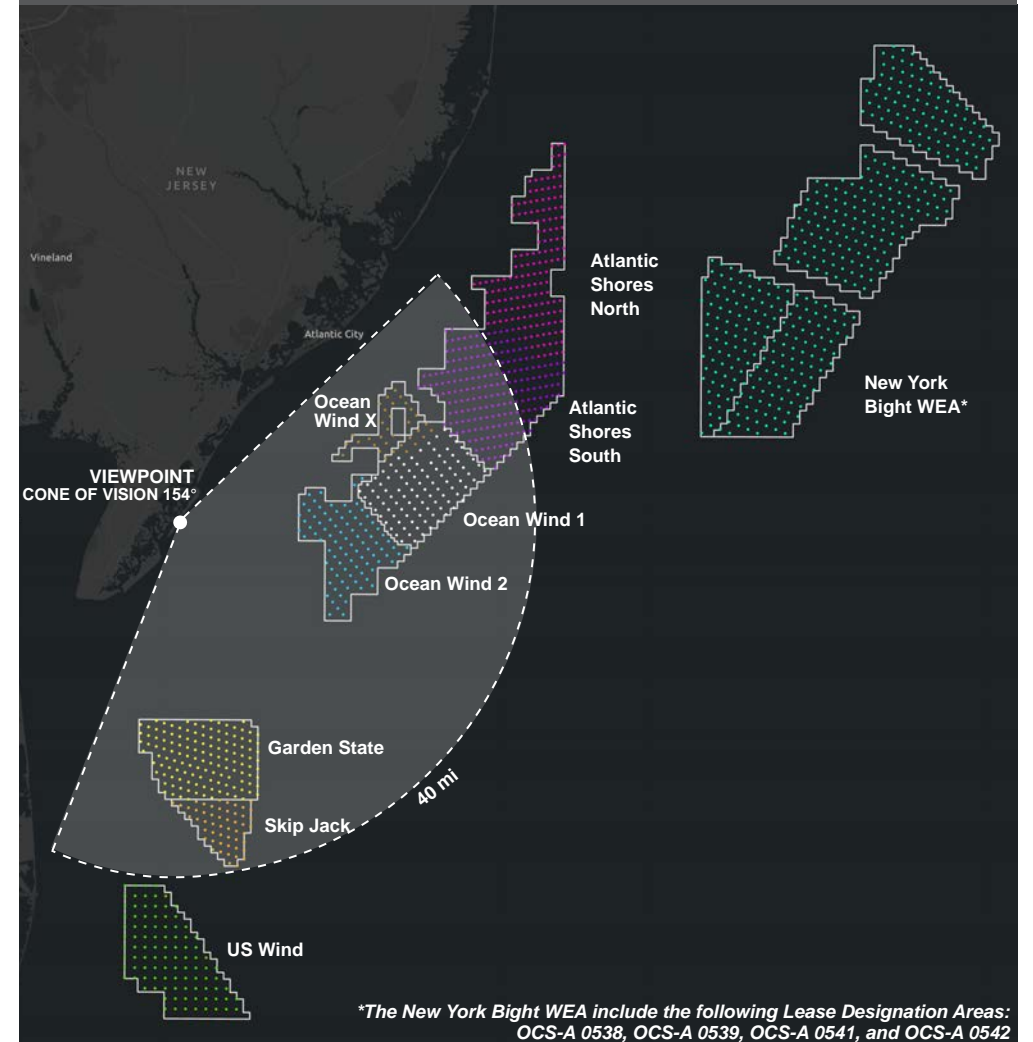
WIND DIRECTION

NORTHWEST
Turbine rotors and blades are modeled in all projects to face northwest to approximate the most visually impacting scenario.

VIEWPOINT INFORMATION

LOCATION		PHOTO		ENVIRONMENTAL	
VIA KOP #	V22	Camera	NIKON D750	Temperature	83°
Date / Time	08/14/2018 / 4:22pm	Resolution	300 dpi	Humidity	63%
Latitude / Longitude	39.052389° / -74.754855°	Focal Length	50 mm	Wind Speed	14 mph
Direction of View	Northeast to Southeast	Viewer Eye Elevation	13 ft	Weather Conditions	Partly Cloudy

CUMULATIVE PROJECT MAP



COMPLETE PANORAMIC VIEW



Panoramic Field of View: 154° (based on Nikon D750 camera lens, where a Normal Photo is 39.6°)

CUMULATIVE EFFECTS ANALYSIS FOR OCEAN WIND I

7A: Northeast view showing only Ocean Wind I Stone Harbor Beach Access, Stone Harbor



Panoramic Field of View: 76°



Panoramic Field of View: 154°

WIND DIRECTION
NORTHWEST
Turbine rotors and blades are modeled in all projects to face northwest to approximate the most visually impacting scenario.

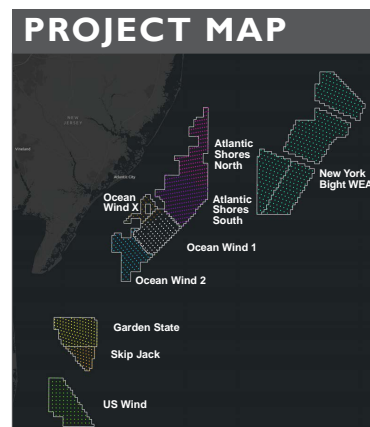


CUMULATIVE EFFECTS ANALYSIS FOR OCEAN WIND I

7B: Northeast view showing all visible projects Stone Harbor Beach Access, Stone Harbor



Panoramic Field of View: 76°



Panoramic Field of View: 154°

WIND DIRECTION
NORTHWEST
 Turbine rotors and blades are modeled in all projects to face northwest to approximate the most visually impacting scenario.

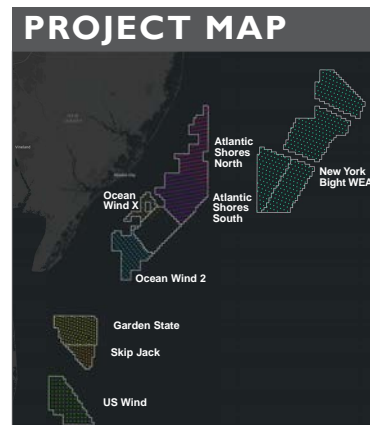


CUMULATIVE EFFECTS ANALYSIS FOR OCEAN WIND I

7C: Northeast view showing all projects except Ocean Wind I Stone Harbor Beach Access, Stone Harbor



Panoramic Field of View: 76°



Panoramic Field of View: 154°

WIND DIRECTION
NORTHWEST
Turbine rotors and blades are modeled in all projects to face northwest to approximate the most visually impacting scenario.



CUMULATIVE EFFECTS ANALYSIS FOR OCEAN WIND I

8A: Southeast view showing only Ocean Wind I Stone Harbor Beach Access, Stone Harbor



Panoramic Field of View: 76°
Ocean Wind 1 not in view



Panoramic Field of View: 154°

WIND DIRECTION
NORTHWEST
Turbine rotors and blades are modeled in all projects to face northwest to approximate the most visually impacting scenario.

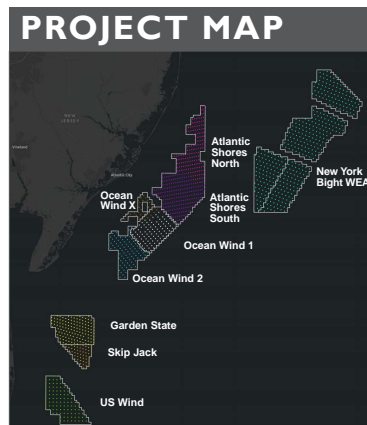


CUMULATIVE EFFECTS ANALYSIS FOR OCEAN WIND I

8B: Southeast view showing all visible projects Stone Harbor Beach Access, Stone Harbor



Panoramic Field of View: 76°
Ocean Wind 1 not in view



Panoramic Field of View: 154°

WIND DIRECTION

NORTHWEST
Turbine rotors and blades are modeled in all projects to face northwest to approximate the most visually impacting scenario.

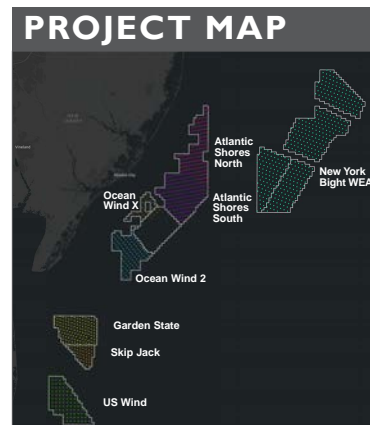


CUMULATIVE EFFECTS ANALYSIS FOR OCEAN WIND I

8C: Southeast view showing all projects except Ocean Wind I Stone Harbor Beach Access, Stone Harbor



Panoramic Field of View: 76°
Ocean Wind 1 not in view



Panoramic Field of View: 154°

WIND DIRECTION

NORTHWEST
Turbine rotors and blades are modeled in all projects to face northwest to approximate the most visually impacting scenario.



CUMULATIVE EFFECTS ANALYSIS FOR OCEAN WIND I

VIEWPOINT

Stone Harbor Beach Access, Stone Harbor

VISUALIZATIONS

VISUALIZATIONS INCLUDED	
7A	Northeast view: only Ocean Wind 1
7B	Northeast view: all visible projects
7C	Northeast view: all visible projects except Ocean Wind 1
8A	Southeast view: only Ocean Wind 1
8B	Southeast view: all visible projects
8C	Southeast view: all visible projects except Ocean Wind 1

CUMULATIVE PROJECT INFORMATION

OFFSHORE WIND PROJECT	THEORETICALLY VISIBLE FROM VIEWPOINT*	DISTANCE TO NEAREST WTG (mi)	DISTANCE TO FARTHEST WTG (mi)	NUMBER OF THEORETICALLY VISIBLE TURBINES	HORIZONTAL FIELD OF VIEW
New York Bight WEA	No	60.2	101.6	0	0°
Atlantic Shores North	No	41.8	61.2	0	0°
Atlantic Shores South	Yes	31.3	47.2	184	24°
Ocean Wind 1	Yes	20.9	35.2	99	34°
Ocean Wind 2	Yes	13.7	26.0	88	44.4°
Ocean Wind X	Yes	20.3	30.6	33	13.9°
Garden State	Yes	22.0	31.5	131	32°
Skip Jack	Yes	31.0	38.8	52	16°
US Wind	No	40.5	54.7	0	0°

*A distance of 40-miles from each viewpoint has been used to define the limits of theoretical visibility. This 40-mile distance aligns with the visual study area used in the Ocean Wind Visual Impact Assessment. For an observation elevation of 25 feet (typical of views from the boardwalks on the coast of New Jersey), the limit of Ocean Wind turbine hub visibility would be 37.3 miles due to earth curvature. While the blade tips are located above the horizon beyond this range, they are unlikely to be detected by observers at these distances due to the limits of visual acuity.

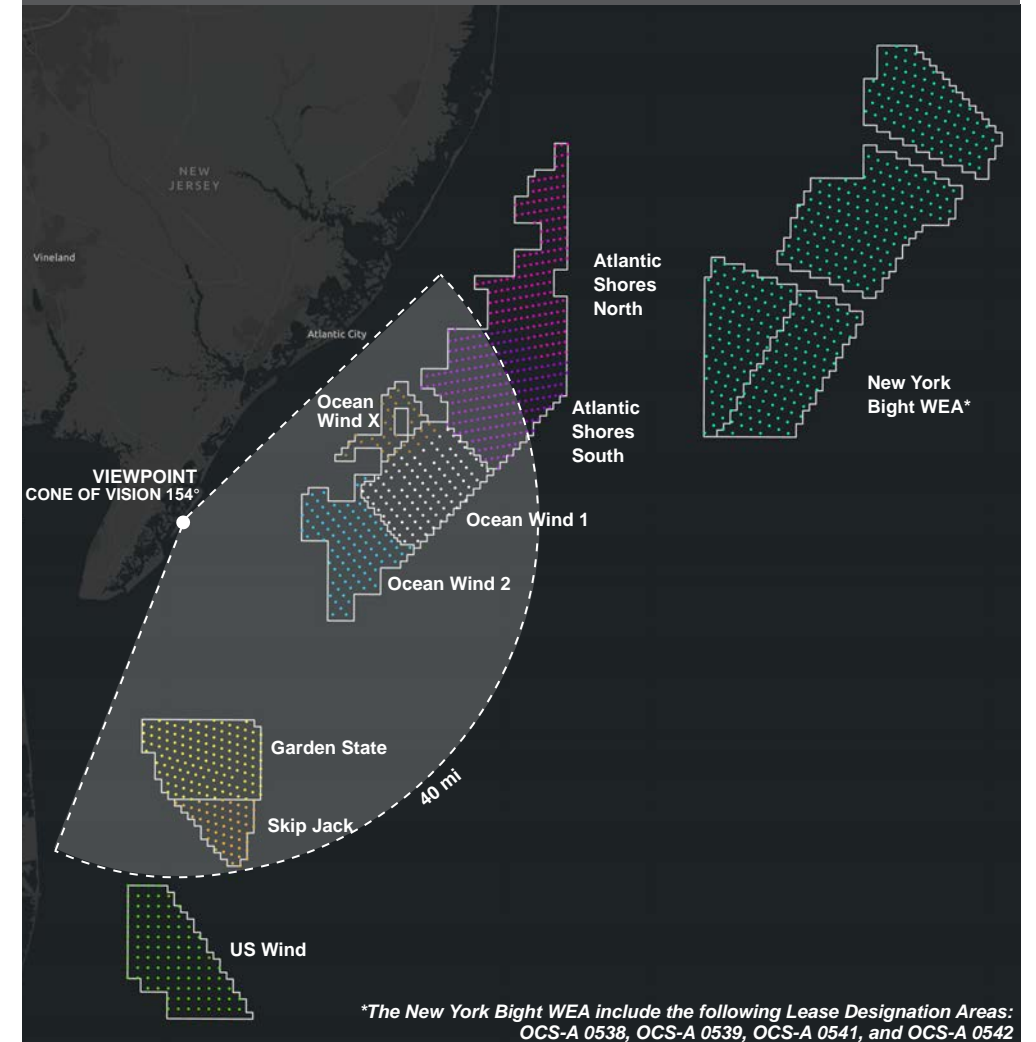
WIND DIRECTION

SOUTHWEST
Turbine rotors and blades are modeled in all projects to face southwest in accordance with prevailing winds.

VIEWPOINT INFORMATION

LOCATION		PHOTO		ENVIRONMENTAL	
VIA KOP #	V22	Camera	NIKON D750	Temperature	83°
Date / Time	08/14/2018 / 4:22pm	Resolution	300 dpi	Humidity	63%
Latitude / Longitude	39.052389° / -74.754855°	Focal Length	50 mm	Wind Speed	14 mph
Direction of View	Northeast to Southeast	Viewer Eye Elevation	13 ft	Weather Conditions	Partly Cloudy

CUMULATIVE PROJECT MAP



*The New York Bight WEA include the following Lease Designation Areas: OCS-A 0538, OCS-A 0539, OCS-A 0541, and OCS-A 0542

COMPLETE PANORAMIC VIEW



Panoramic Field of View: 154° (based on Nikon D750 camera lens, where a Normal Photo is 39.6°)

CUMULATIVE EFFECTS ANALYSIS FOR OCEAN WIND I

7A: Northeast view showing only Ocean Wind I Stone Harbor Beach Access, Stone Harbor



Panoramic Field of View: 76°



Panoramic Field of View: 154°

WIND DIRECTION
SOUTHWEST
Turbine rotors and blades are modeled in all projects to face southwest in accordance with prevailing winds.

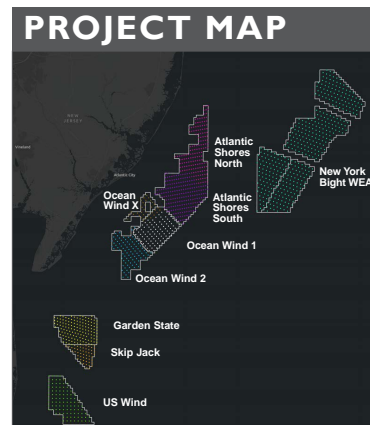


CUMULATIVE EFFECTS ANALYSIS FOR OCEAN WIND I

7B: Northeast view showing all visible projects Stone Harbor Beach Access, Stone Harbor



Panoramic Field of View: 76°



Panoramic Field of View: 154°

WIND DIRECTION
SOUTHWEST
Turbine rotors and blades are modeled in all projects to face southwest in accordance with prevailing winds.

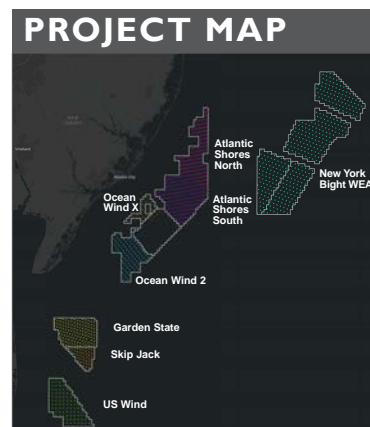


CUMULATIVE EFFECTS ANALYSIS FOR OCEAN WIND I

7C: Northeast view showing all projects except Ocean Wind I Stone Harbor Beach Access, Stone Harbor



Panoramic Field of View: 76°



Panoramic Field of View: 154°

WIND DIRECTION
SOUTHWEST
 Turbine rotors and blades are modeled in all projects to face southwest in accordance with prevailing winds.



CUMULATIVE EFFECTS ANALYSIS FOR OCEAN WIND I

8A: Southeast view showing only Ocean Wind I Stone Harbor Beach Access, Stone Harbor



Panoramic Field of View: 76°
Ocean Wind 1 not in view



Panoramic Field of View: 154°

WIND DIRECTION
SOUTHWEST
Turbine rotors and blades are modeled in all projects to face southwest in accordance with prevailing winds.

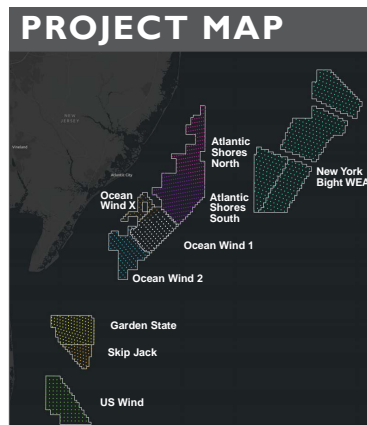


CUMULATIVE EFFECTS ANALYSIS FOR OCEAN WIND I

8B: Southeast view showing all visible projects Stone Harbor Beach Access, Stone Harbor



Panoramic Field of View: 76°
Ocean Wind 1 not in view



Panoramic Field of View: 154°

WIND DIRECTION

SOUTHWEST

Turbine rotors and blades are modeled in all projects to face southwest in accordance with prevailing winds.

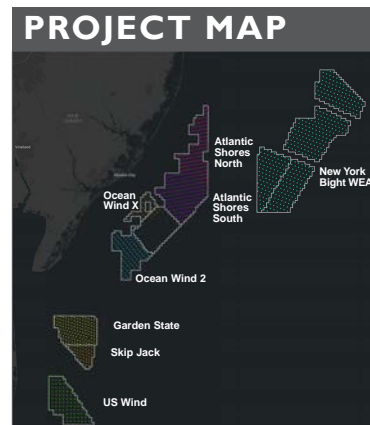


CUMULATIVE EFFECTS ANALYSIS FOR OCEAN WIND I

8C: Southeast view showing all projects except Ocean Wind I Stone Harbor Beach Access, Stone Harbor



Panoramic Field of View: 76°
Ocean Wind 1 not in view



Panoramic Field of View: 154°

WIND DIRECTION

SOUTHWEST

Turbine rotors and blades are modeled in all projects to face southwest in accordance with prevailing winds.

