Image 1 Before

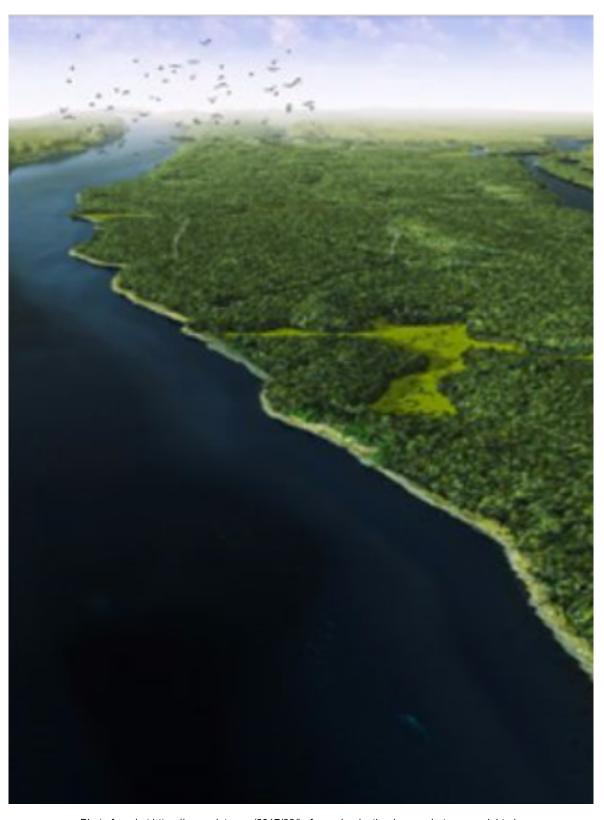


Photo found at https://www.vintag.es/2017/08/before-urbanization-heres-what-new-york.html. Website credited photos from E. Sanderson, *Manhattan: A Natural History of New York City* (NY: Abrams, 2009).



Image 2 After



Photo found at https://www.vintag.es/2017/08/before-urbanization-heres-what-new-york.html. Website credited photos from E. Sanderson, *Manhattan: A Natural History of New York City* (NY: Abrams, 2009).



Before Observations

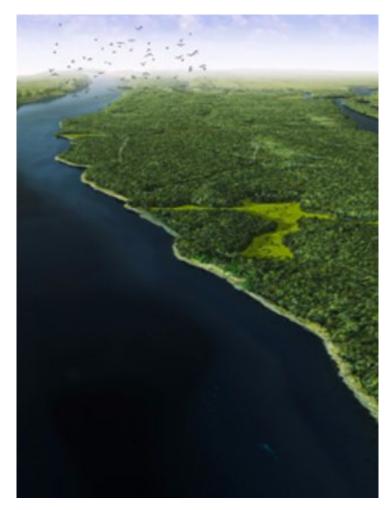


Photo found at https://www.vintag.es/2017/08/before-urbanization-heres-what-new-york.html.

Website credited photos from E. Sanderson, *Manhattan: A Natural History of New York City* (NY: Abrams, 2009).

List your observations.		



Before Observations

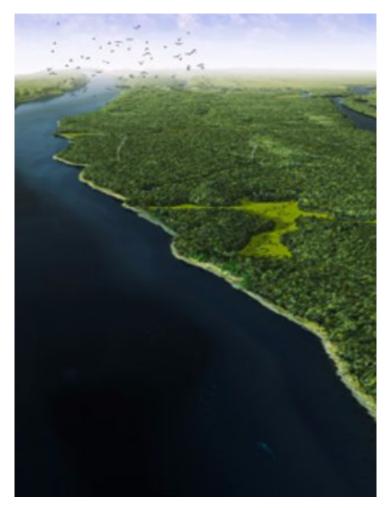


Photo found at https://www.vintag.es/2017/08/before-urbanization-heres-what-new-york.html. Website credited photos from E. Sanderson, *Manhattan: A Natural History of New York City* (NY: Abrams, 2009).

List 5 observations:

1		
_		
3. [–]		
4. -		
_		



Before Observations

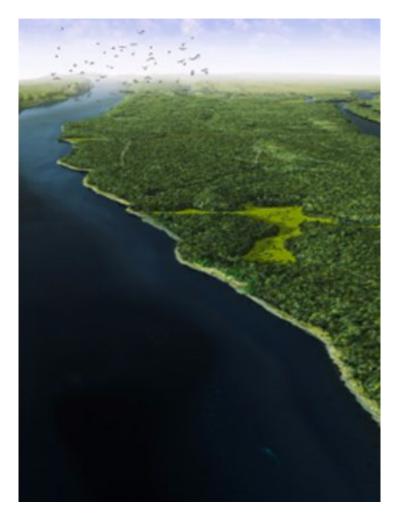


Photo found at https://www.vintag.es/2017/08/before-urbanization-heres-what-new-york.html. Website credited photos from E. Sanderson, *Manhattan: A Natural History of New York City* (NY: Abrams, 2009).

List your observations:

1. One thing that I notice is	
2. Another thing that I notice is	
3. I see	_ in the picture.
4. I see	_ in the picture.
5. Before humans changed the land, it looked like	
	- ·



After Observations



Photo found at https://www.vintag.es/2017/08/before-urbanization-heres-what-new-york.html. Website credited photos from E. Sanderson, *Manhattan: A Natural History of New York City* (NY: Abrams, 2009).

List your observations:				



After Observations



Photo found at https://www.vintag.es/2017/08/before-urbanization-heres-what-new-york.html. Website credited photos from E. Sanderson, *Manhattan: A Natural History of New York City* (NY: Abrams, 2009).

List 5 observations:

1			
- 2.			
_			
3 _			
4			
5. <u> </u>			



After Observations

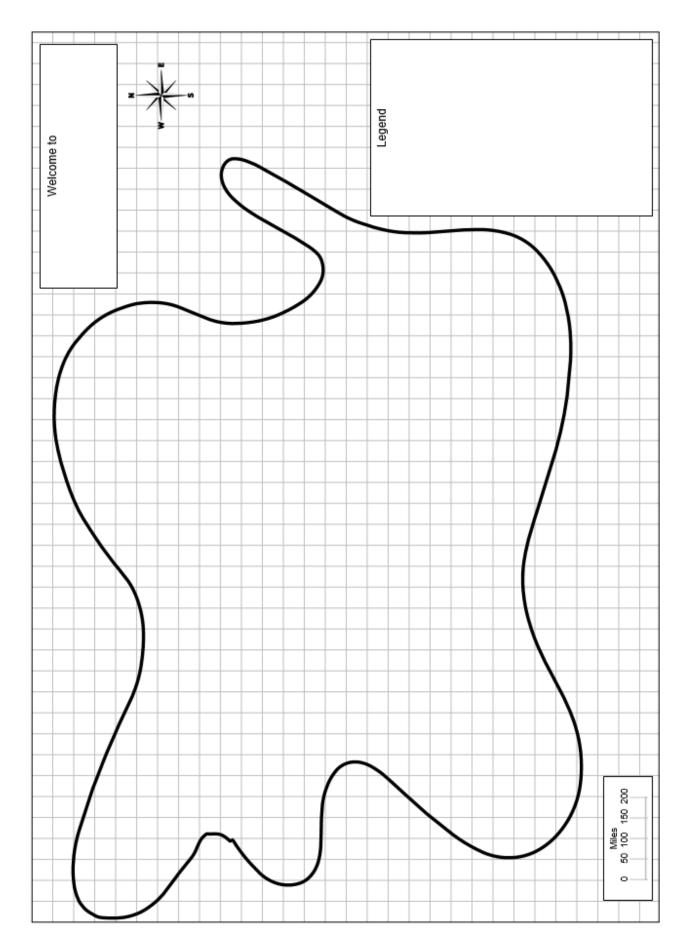


Photo found at https://www.vintag.es/2017/08/before-urbanization-heres-what-new-york.html. Website credited photos from E. Sanderson, *Manhattan: A Natural History of New York City* (NY: Abrams, 2009).

List your observations:

1. One thing that I notice is	.
2. Another thing that I notice is	
3. I see	in the picture.
4. I see	in the picture.
5. After humans changed the land, it looks like	







Activity Cards

Change: Tornado occurs. Impact: Destroyed x 100 miles of farmland or desert habitat/climate. Type of Impact: Natural	Change: New homes are being built. Impact: Destroyed x 100 miles of forest. Type of Impact: Human-caused
Change: New homes are being built. Impact: Destroyed x 100 miles of forest. Type of Impact: Human-caused	Change: New homes are being built. Impact: Destroyed x 200 miles of forest. Type of Impact: Human-caused
Change: A new coffee company wants to start a coffee bean farm. Impact: Destroyed x 300 miles of forest. Type of Impact: Human-caused	Change: Hurricane occurs. Impact: Destroyed x 100 miles of homes. Type of Impact: Natural
Change: Hurricane occurs. Impact: Destroyed x 100 miles of homes. Type of Impact: Natural	Change: New business is built. Impact: Destroyed x 100 miles of rivers or water source. Type of Impact: Human-caused
Change: New homes are being built. Impact: Destroyed x 200 miles of desert. Type of Impact: Human-caused	Change: New business is built. Impact: Destroyed x 200 miles of rivers or water source. Type of Impact: Human-caused
Change: A new shopping center is being built. Impact: Destroyed x 100 miles of forest. Type of Impact: Human-caused	Change: New business is built. Impact: Destroyed x 100 miles of rivers or water source. Type of Impact: Human-caused
Change: Pollution from exhaust fumes occurs. Impact: Pollutes x 1000 miles of arctic habitat. Type of Impact: Human-caused	Change: Earthquake occurs. Impact: Destroyed x 100 miles of homes. Type of Impact: Natural
Change: Pollution from exhaust fumes occurs. Impact: Pollutes x 100 miles of arctic habitat. Type of Impact: Human-caused	Change: Drought occurs. Impact: Destroyed x 200 miles of forest. Type of Impact: Natural



Change: Tornado occurs. Change: New homes are being built. Impact: Destroyed x 50 miles of homes and Impact: Destroyed x 10 miles of wetlands. farmland. Type of Impact: Human-caused Type of Impact: Natural Change: Sink hole appears. Change: New homes are being built. Impact: Destroyed x 50 miles of desert. Impact: Destroyed x 200 miles of forest. Type of Impact: Human-caused Type of Impact: Human-caused Change: A mall/shopping center is built. Change: Hurricane occurs. Impact: Destroyed x 50 miles of desert. Impact: Destroyed x 10 miles of homes. Type of Impact: Human-caused Type of Impact: Natural Change: Oil/Fossil fuels are taken out of the Change: Monsoon flooding occurs. ground. Impact: Destroyed x 50 miles of homes. Impact: Uses x 50 miles of rivers or water Type of Impact: Natural source. Type of Impact: Human-caused Change: Oil/Fossil fuels are taken out of the Change: New homes are being built. ground. Impact: Destroyed x 20 miles of water Impact: Ruins __ x 20 miles of rivers or water source. source. Type of Impact: Human-caused Type of Impact: Human-caused Change: A new shopping center is being built. Change: Roads/Highways are built. Impact: Destroyed x 10 miles of desert or Impact: Ruins x 10 miles of rivers or water forest. source. Type of Impact: Human-caused Type of Impact: Human-caused Change: Pollution from factory occurs. Change: Earthquake occurs. Impact: Pollutes x 10 miles of a water Impact: Destroyed x 10 miles of homes and. source. Type of Impact: Natural Type of Impact: Human-caused Change: Pollution from exhaust fumes occurs. Change: Roads/Highways are built. Impact: Destroyed x 20 miles of forest. Impact: Pollutes x 10 miles of forests. Type of Impact: Human-caused Type of Impact: Human-caused



Change: Wind Farm is built. Change: Farmland is being created. Impact: Uses x 50 miles of desert or forest. Impact: Destroyed x 10 miles of wetlands. Type of Impact: Human-caused Type of Impact: Human-caused Change: Solar Farm is built. Change: Farmland is being created. Impact: Uses x 10 miles of desert or forest. Impact: Destroyed x 10 miles of grasslands. Type of Impact: Human-caused Type of Impact: Human-caused Change: Solar Farm is built. Change: Farmland is being created. Impact: Uses __ x 25 miles of desert or Impact: Destroyed x 20 miles of desert. grasslands. Type of Impact: Human-caused Type of Impact: Human-caused Change: Oil/Fossil fuels are taken out of the Change: A dam is built. ground. Impact: Uses x 25 miles of desert and water Impact: Uses x 50 miles of rivers or water source. source. Type of Impact: Human-caused Type of Impact: Human-caused Change: Oil/Fossil fuels are taken out of the Change: A dam is built. ground. Impact: Uses x 20 miles of water source. Impact: Uses ___ x 20 miles of rivers or water Type of Impact: Human-caused source. Type of Impact: Human-caused Change: A business is built Change: Roads/Highways are built. Impact: Pollutes x 10 miles of water source Impact: Destroyed __ x 10 miles of grasslands. or river. Type of Impact: Human-caused Type of Impact: Human-caused Change: A mine (coal, uranium, diamond, etc.) Change: Earthquake occurs. is duq. Impact: Destroyed x 10 miles of homes and. Impact: Uses x 10 miles of a water source. Type of Impact: Natural Type of Impact: Human-caused Change: A mine (coal, uranium, diamond, etc.) Change: A mine (coal, uranium, diamond, etc.) is duq. is dug. Impact: Pollutes x 20 miles of a water Impact: Uses x 50 miles of a water source. source. Type of Impact: Human-caused Type of Impact: Human-caused



Change: Wind Farm is built. Change: Farmland is being created. Impact: Uses x 10 miles of mountains. Impact: Destroyed x 10 miles of wetlands. Type of Impact: Human-caused Type of Impact: Human-caused Change: Solar Farm is built. Change: Farmland is being created. Impact: Destroyed x 10 miles of forest. Impact: Uses x 10 miles of mountains. Type of Impact: Human-caused Type of Impact: Human-caused Change: Solar Farm is built. Change: Farmland is being created. Impact: Uses ___ x 25 miles of desert or water Impact: Destroyed x 20 miles of desert or source. forest. Type of Impact: Human-caused Type of Impact: Human-caused Change: Oil/Fossil fuels are taken from the Change: A dam is built. ground. Impact: Destroyed ___ x 25 miles of mountains Impact: Uses x 20 miles of land, lakes and and vegetation. Type of Impact: Human-caused Type of Impact: Human-caused Change: Oil/Fossil fuels are taken from the Change: A dam is built. ground. Impact: Destroyed x 20 miles of vegetation Impact: Uses ___ x 50 miles of land, lakes, and and water source. Type of Impact: Human-caused Type of Impact: Human-caused Change: A business is built. Change: Roads/Highways are built. Impact: Uses x 250 miles of water source or Impact: Destroyed x 10 miles of mountains. river. Type of Impact: Human-caused Type of Impact: Human-caused Change: A mine (coal, uranium, diamond, etc.) Change: Earthquake occurs. is dug. Impact: Destroyed __ x 10 miles of homes and. Impact: Destroyed x 10 miles of a mountains and vegetation. Type of Impact: Natural Type of Impact: Human-caused Change: A mine (coal, uranium, diamond, etc.) Change: A mine (coal, uranium, diamond, etc.) is dua. is dua. Impact: Uses x 20 miles of a mountains and Impact: Uses x 50 miles of mountains and vegetation. vegetation. Type of Impact: Human-caused Type of Impact: Human-caused



Recording Sheet Nar	me(s)
Change:	Change:
Impact:	Impact:
Type of Impact:	Type of Impact:
Change:	Change:
Impact:	Impact:
Type of Impact:	
Change:	Change:
Impact:	Impact:
Type of Impact:	
Change:	Change:
Impact:	Impact:
Type of Impact:	Type of Impact:
Change:	
Impact:	
Type of Impact:	



Rubric Score for Identifying Human and Natural Impacts	Rubric for Explaining the Impacts
 Students are able to identify one natural/human-caused impact. 	 Students can explain one change on their maps.
2. Students are able to identify two natural/human-caused impacts.	Students can explain two changes on their maps.
 Students are able to identify three natural/human-caused impacts. 	Students can explain three changes on their maps.
 Students are able to identify four natural/human-caused impacts. 	Students can explain four changes on their maps.
Score	Score

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Name Option Two	Scoring Guide	е

Requirements	Points Possible	Points Earned
Real-world location identified.	5	
2-4 changes have been identified.	10	
The changes are correctly identified as human or natural.	10	
The impact on people, animals, plants, and the natural environment are identified.	25	
Total Points Possible	50	

Comments:

