

Challenge #1 - Climate Change & Florida Ecosystem	Challenge #2 - Improving the Condition of Florida's Waterways	Challenge #3 - Sustainable Fisheries	Challenge #4 - Power Consumption	Challenge #5 - Animal Agriculture
<p>Florida Springs: <a href="https://geodata.dep.state.fl.us/datasets/florida-springs-2016/explore">https://geodata.dep.state.fl.us/datasets/florida-springs-2016/explore</a></p> <p>Resource watch (Dozens of climate-based datasets): <a href="https://resourcewatch.org/data/explore?section=Discover&amp;selectedCollection=&amp;zoom=5&amp;lat=27.761329874498614&amp;lng=-81.32080078128575&amp;pitch=0&amp;bearing=0&amp;basemap=dark&amp;labels=light&amp;layers=%255B%257B%2522dataset%2522%253A%25222063964b-56c8-4080-b2a5-5a7710f321b9%2522%252C%2522opacity%2522%253A1%252C%2522layer%2522%253A%25220bb499a3-3a09-4461-a8d6-295b8491cd5a%2522%257D%255D&amp;aoi=&amp;page=1&amp;sort=most-viewed&amp;sortDirection=-1">https://resourcewatch.org/data/explore?section=Discover&amp;selectedCollection=&amp;zoom=5&amp;lat=27.761329874498614&amp;lng=-81.32080078128575&amp;pitch=0&amp;bearing=0&amp;basemap=dark&amp;labels=light&amp;layers=%255B%257B%2522dataset%2522%253A%25222063964b-56c8-4080-b2a5-5a7710f321b9%2522%252C%2522opacity%2522%253A1%252C%2522layer%2522%253A%25220bb499a3-3a09-4461-a8d6-295b8491cd5a%2522%257D%255D&amp;aoi=&amp;page=1&amp;sort=most-viewed&amp;sortDirection=-1</a></p>	<p>Flowing water chages: <a href="https://geodata.dep.state.fl.us/datasets/wms-flowing-waters-resource-2020/explore">https://geodata.dep.state.fl.us/datasets/wms-flowing-waters-resource-2020/explore</a></p> <p>National Oceanic and Atmospheric Administration: <a href="https://www.noaa.gov/">https://www.noaa.gov/</a></p>	<p>NOAA Fishery info: <a href="https://www.fisheries.noaa.gov/recreational-fishing-data/recreational-fishing-data-downloads">https://www.fisheries.noaa.gov/recreational-fishing-data/recreational-fishing-data-downloads</a></p> <p>Resource watch (Dozens of climate-based datasets): <a href="https://resourcewatch.org/data/explore?section=Discover&amp;selectedCollection=&amp;zoom=5&amp;lat=27.761329874498614&amp;lng=-81.32080078128575&amp;pitch=0&amp;bearing=0&amp;basemap=dark&amp;labels=light&amp;layers=%255B%257B%2522dataset%2522%253A%25222063964b-56c8-4080-b2a5-5a7710f321b9%2522%252C%2522opacity%2522%253A1%252C%2522layer%2522%253A%25220bb499a3-3a09-4461-a8d6-295b8491cd5a%2522%257D%255D&amp;aoi=&amp;page=1&amp;sort=most-viewed&amp;sortDirection=-1">https://resourcewatch.org/data/explore?section=Discover&amp;selectedCollection=&amp;zoom=5&amp;lat=27.761329874498614&amp;lng=-81.32080078128575&amp;pitch=0&amp;bearing=0&amp;basemap=dark&amp;labels=light&amp;layers=%255B%257B%2522dataset%2522%253A%25222063964b-56c8-4080-b2a5-5a7710f321b9%2522%252C%2522opacity%2522%253A1%252C%2522layer%2522%253A%25220bb499a3-3a09-4461-a8d6-295b8491cd5a%2522%257D%255D&amp;aoi=&amp;page=1&amp;sort=most-viewed&amp;sortDirection=-1</a></p>	<p>Power Plant data: <a href="https://datasets.wri.org/dataset/globalpowerplantdatabase">https://datasets.wri.org/dataset/globalpowerplantdatabase</a></p> <p>Power plants in China: <a href="https://www.transitionzero.org/data/turning-the-supertanker">https://www.transitionzero.org/data/turning-the-supertanker</a></p>	<p>Precision agricultural mapping: <a href="https://www.satimagingcorp.com/applications/natural-resources/agriculture/">https://www.satimagingcorp.com/applications/natural-resources/agriculture/</a></p> <p>The Cool Farm Tool (measures greenhouse gases, water, and biodiversity): <a href="https://coolfarmtool.org/">https://coolfarmtool.org/</a></p>
<p>Aquafer contamination data: <a href="https://geodata.dep.state.fl.us/datasets/sand-and-gravel-aquifer-contamination-potential/explore">https://geodata.dep.state.fl.us/datasets/sand-and-gravel-aquifer-contamination-potential/explore</a></p>	<p>Resource watch (Dozens of climate-based datasets): <a href="https://resourcewatch.org/data/explore?section=Discover&amp;selectedCollection=&amp;zoom=5&amp;lat=27.761329874498614&amp;lng=-81.32080078128575&amp;pitch=0&amp;bearing=0&amp;basemap=dark&amp;labels=light&amp;layers=%255B%257B%2522dataset%2522%253A%25222063964b-56c8-4080-b2a5-5a7710f321b9%2522%252C%2522opacity%2522%253A1%252C%2522layer%2522%253A%25220bb499a3-3a09-4461-a8d6-295b8491cd5a%2522%257D%255D&amp;aoi=&amp;page=1&amp;sort=most-viewed&amp;sortDirection=-1">https://resourcewatch.org/data/explore?section=Discover&amp;selectedCollection=&amp;zoom=5&amp;lat=27.761329874498614&amp;lng=-81.32080078128575&amp;pitch=0&amp;bearing=0&amp;basemap=dark&amp;labels=light&amp;layers=%255B%257B%2522dataset%2522%253A%25222063964b-56c8-4080-b2a5-5a7710f321b9%2522%252C%2522opacity%2522%253A1%252C%2522layer%2522%253A%25220bb499a3-3a09-4461-a8d6-295b8491cd5a%2522%257D%255D&amp;aoi=&amp;page=1&amp;sort=most-viewed&amp;sortDirection=-1</a></p>	<p>Global Fishing Watch datasets: <a href="https://globalfishingwatch.org/datasets-and-code/">https://globalfishingwatch.org/datasets-and-code/</a></p>	<p>Water power plants in Norway, Sweden, and Finland: <a href="https://www.nordpoolgroup.com/Market-data1/Power-system-data/hydro-reservoir1/ALL/Hourly/?view=table">https://www.nordpoolgroup.com/Market-data1/Power-system-data/hydro-reservoir1/ALL/Hourly/?view=table</a></p>	<p>Map Biomas (Deforestation, in Portugese): <a href="https://mapbiomas.org/en?cama_set_language=en">https://mapbiomas.org/en?cama_set_language=en</a></p>
<p>Pesticide use of Florida: <a href="https://geodata.dep.state.fl.us/datasets/pesticide-drastic-for-the-surficial-aquifer/explore?location=28.538754%2C-81.759793%2C10.00">https://geodata.dep.state.fl.us/datasets/pesticide-drastic-for-the-surficial-aquifer/explore?location=28.538754%2C-81.759793%2C10.00</a></p>	<p>Lake resources: <a href="https://geodata.dep.state.fl.us/datasets/wms-lakes-resource-2020/explore">https://geodata.dep.state.fl.us/datasets/wms-lakes-resource-2020/explore</a></p>	<p>UN's Fishery division: <a href="http://www.fao.org/fishery/topic/16054/en">http://www.fao.org/fishery/topic/16054/en</a></p>	<p>Worldwide Geofenced dams: <a href="https://www.nature.com/articles/s41597-020-0362-5">https://www.nature.com/articles/s41597-020-0362-5</a></p>	<p>Google Earth (to identify grazing animals): <a href="https://earth.google.com/web/@0,0,0a,22251752.77375655d,35y,0h,0t,0r">https://earth.google.com/web/@0,0,0a,22251752.77375655d,35y,0h,0t,0r</a></p>

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Geomorphology of Florida: <a href="https://geodata.dep.state.fl.us/datasets/geomorphology/explore">https://geodata.dep.state.fl.us/datasets/geomorphology/explore</a>	Pollutant daily loads: <a href="https://geodata.dep.state.fl.us/datasets/epa-established-total-maximum-daily-loads-tmdls/explore">https://geodata.dep.state.fl.us/datasets/epa-established-total-maximum-daily-loads-tmdls/explore</a>	Gulf States Marine Fisheries Division: <a href="https://data.gsmfc.org/">https://data.gsmfc.org/</a>	Three dam databases: <a href="http://globaldamwatch.org/data/">http://globaldamwatch.org/data/</a>	ArcGIS (Western Grazing allotment): <a href="https://www.arcgis.com/home/webmap/viewer.html?url=https%3A%2F%2Fgis.blm.gov%2Farcgis%2Frest%2Fservices%2Fframe%2FBLM_Natl_Grazing_Allotment%2FMapServer&amp;source=sd">https://www.arcgis.com/home/webmap/viewer.html?url=https%3A%2F%2Fgis.blm.gov%2Farcgis%2Frest%2Fservices%2Fframe%2FBLM_Natl_Grazing_Allotment%2FMapServer&amp;source=sd</a>
Terraces and coastlines in Florida: <a href="https://geodata.dep.state.fl.us/datasets/marine-terraces/explore">https://geodata.dep.state.fl.us/datasets/marine-terraces/explore</a>	Site specific water criteria: <a href="https://geodata.dep.state.fl.us/datasets/site-specific-alternative-criteria-ssac-lines/explore">https://geodata.dep.state.fl.us/datasets/site-specific-alternative-criteria-ssac-lines/explore</a>	Indian Ocean Tuna Commission datasets: <a href="https://www.iotc.org/data/datasets">https://www.iotc.org/data/datasets</a>	US Department of Energy: <a href="https://www.energy.gov/data/open-energy-data">https://www.energy.gov/data/open-energy-data</a>	BLM Grazing Allotment: <a href="https://data.doi.gov/dataset/blm-grazing-allotment-polygons">https://data.doi.gov/dataset/blm-grazing-allotment-polygons</a>
Map of spring protection areas: <a href="https://geodata.dep.state.fl.us/datasets/florida-geologic-survey-fgs-springs-protection-areas/explore">https://geodata.dep.state.fl.us/datasets/florida-geologic-survey-fgs-springs-protection-areas/explore</a>	Protected waterbodies in Florida: <a href="https://geodata.dep.state.fl.us/datasets/outstanding-florida-waters/explore">https://geodata.dep.state.fl.us/datasets/outstanding-florida-waters/explore</a>	Changes in fish populations in Lake Victoria: <a href="https://data.mendeley.com/datasets/vc5y2y8dcg/1">https://data.mendeley.com/datasets/vc5y2y8dcg/1</a>	Alternative Fuels Data Center: <a href="https://afdc.energy.gov/data/">https://afdc.energy.gov/data/</a>	Pule by GHGSat (Methane gases): <a href="https://pulse.ghgsat.com/">https://pulse.ghgsat.com/</a>
Land surface elevation: <a href="https://geodata.dep.state.fl.us/datasets/elevations-contours-and-depression/explore">https://geodata.dep.state.fl.us/datasets/elevations-contours-and-depression/explore</a>	Water going under restoration: <a href="https://geodata.dep.state.fl.us/datasets/alternative-restoration-plans/explore">https://geodata.dep.state.fl.us/datasets/alternative-restoration-plans/explore</a>	Seal mortalities in the Falken Islands: <a href="https://data.mendeley.com/datasets/tr39xmkbfp/1">https://data.mendeley.com/datasets/tr39xmkbfp/1</a>	Geography Comparison, Clean Energy Investment, and Capacity: <a href="https://global-climatescope.org/library">https://global-climatescope.org/library</a>	Greenhouse gases (methane gas): <a href="https://greenhousemaps.com/">https://greenhousemaps.com/</a>
	Inventory of Florida dams: <a href="https://geodata.dep.state.fl.us/datasets/florida-dams/explore">https://geodata.dep.state.fl.us/datasets/florida-dams/explore</a>	Seasonal patterns of round goby fish: <a href="https://data.mendeley.com/datasets/8s3xk767hf/1">https://data.mendeley.com/datasets/8s3xk767hf/1</a>	California Solar Data: <a href="https://www.californiadgstats.ca.gov/">https://www.californiadgstats.ca.gov/</a>	EDF Oil and Methane Gas Data: <a href="https://www.edfeurope.org/oil-and-gas-methane-data">https://www.edfeurope.org/oil-and-gas-methane-data</a>
		Invasive species of the Lionfish, detection and removal: <a href="https://data.mendeley.com/datasets/vxx3t45w6k/1">https://data.mendeley.com/datasets/vxx3t45w6k/1</a>	Wind Intergration: <a href="https://www.nrel.gov/grid/wind-toolkit.html">https://www.nrel.gov/grid/wind-toolkit.html</a>	Verra (deforestation): <a href="https://verra.org/methodology/vm0007-redd-methodology-framework-redd-mf-v1-6/">https://verra.org/methodology/vm0007-redd-methodology-framework-redd-mf-v1-6/</a>
		Atlantic coast data: <a href="https://safis.accsp.org/accsp_prod/f?p=1490:1:15756816427548:::">https://safis.accsp.org/accsp_prod/f?p=1490:1:15756816427548:::</a>	US Wind Turbine Database: <a href="https://eerscmmap.usgs.gov/uswtbd/">https://eerscmmap.usgs.gov/uswtbd/</a>	Global Land Analysis and Discovery (deforestation): <a href="https://glad.umd.edu/dataset/primary-forest-humid-tropics">https://glad.umd.edu/dataset/primary-forest-humid-tropics</a>
		Canadian escaped fish data (farmed and wild): <a href="https://open.canada.ca/data/en/dataset/691dd994-4911-433d-b3b6-00349ba9f24e">https://open.canada.ca/data/en/dataset/691dd994-4911-433d-b3b6-00349ba9f24e</a>	Electric Utility Rates: <a href="https://openei.org/wiki/Utility_Rate_Database">https://openei.org/wiki/Utility_Rate_Database</a>	Earth Engine Partners (global forest change): <a href="https://earthenginepartners.appspot.com/science-2013-global-forest">https://earthenginepartners.appspot.com/science-2013-global-forest</a>
		Seaweed/algae populations in Canada: <a href="https://open.canada.ca/data/en/dataset/ebdd8f91-9131-45f0-8aec-aba9f65e3fae">https://open.canada.ca/data/en/dataset/ebdd8f91-9131-45f0-8aec-aba9f65e3fae</a>	Uranium data: <a href="https://www.usgs.gov/centers/cerc/science/integrated-uranium-resource-and-environmental-assessment?qt-science_center_objects=0#qt-science_center_objects">https://www.usgs.gov/centers/cerc/science/integrated-uranium-resource-and-environmental-assessment?qt-science_center_objects=0#qt-science_center_objects</a>	Global Forest Watch (deforestation): <a href="https://www.globalforestwatch.org/map/">https://www.globalforestwatch.org/map/</a>

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			Individual power consumption: <a href="https://coolldataset.github.io/">https://coolldataset.github.io/</a>	
			Renewable energy: <a href="https://sam.nrel.gov/">https://sam.nrel.gov/</a>	
			Solar radiation data: <a href="http://www.soda-pro.com/web-services/meteo-data/merra;jsessionid=09944E93D46996DB0F5EDC3D402412AF">http://www.soda-pro.com/web-services/meteo-data/merra;jsessionid=09944E93D46996DB0F5EDC3D402412AF</a>	
			Solar energy potential: <a href="https://resourcewatch.org/data/explore/Solar-Irradiance?section=Discover&amp;selectedCollection=&amp;zoom=5&amp;lat=27.761329874498614&amp;lng=-81.32080078128575&amp;pitch=0&amp;bearing=0&amp;basemap=dark&amp;labels=light&amp;layers=%255B%257B%2522dataset%2522%253A%2522063964b-56c8-4080-b2a5-5a7710f321b9%2522%252C%2522opacity%2522%253A1%252C%2522layer%2522%253A%25220bb499a3-3a09-4461-a8d6-295b8491cd5a%2522%257D%255D&amp;aoi=&amp;page=1&amp;sort=most-viewed&amp;sortDirection=-1">https://resourcewatch.org/data/explore/Solar-Irradiance?section=Discover&amp;selectedCollection=&amp;zoom=5&amp;lat=27.761329874498614&amp;lng=-81.32080078128575&amp;pitch=0&amp;bearing=0&amp;basemap=dark&amp;labels=light&amp;layers=%255B%257B%2522dataset%2522%253A%2522063964b-56c8-4080-b2a5-5a7710f321b9%2522%252C%2522opacity%2522%253A1%252C%2522layer%2522%253A%25220bb499a3-3a09-4461-a8d6-295b8491cd5a%2522%257D%255D&amp;aoi=&amp;page=1&amp;sort=most-viewed&amp;sortDirection=-1</a>	

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			Project Sunroof (solar panel viability): <a href="https://sunroof.withgoogle.com/#/p=0">https://sunroof.withgoogle.com/#/p=0</a>	
			Power Plant Satellite Imagery: <a href="https://figshare.com/articles/dataset/Power_Plant_Satellite_Imagery_Dataset/5307364">https://figshare.com/articles/dataset/Power_Plant_Satellite_Imagery_Dataset/5307364</a>	
			Outlook for Energy (Energy demand in the future): <a href="https://corporate.exxonmobil.com/Energy-and-innovation/outlook-for-energy">https://corporate.exxonmobil.com/Energy-and-innovation/outlook-for-energy</a>	
			OPEC data: <a href="https://www.opec.org/opec_web/en/data_graphs/40.htm">https://www.opec.org/opec_web/en/data_graphs/40.htm</a>	
			Measuring coal use: <a href="https://www.cmu.edu/epp/iecm/index.html">https://www.cmu.edu/epp/iecm/index.html</a>	
			Inventory of Florida dams: <a href="https://geodata.dep.state.fl.us/datasets/florida-dams/explore">https://geodata.dep.state.fl.us/datasets/florida-dams/explore</a>	