NASA Applied Sciences Program: Additional Resources
Revised May 2021

NASA Health and Air Quality Applications
NASA Health and Air Quality Applications:
- https://appliedsciences.nasa.gov/what-we-do/health-air-quality

NASA Health and Air Quality Applied Sciences Team (HAQAST):
- https://haqast.org/

NASA Training Programs
NASA Applied Remote Sensing Training (ARSET) program:
- https://appliedsciences.nasa.gov/what-we-do/capacity-building/arset

NASA Earth Science Career Opportunities for Undergraduate, Graduate, and Early Career:
- https://science.nasa.gov/earth-science/early-career-opportunities

YouTube Videos on NASA-funded Projects
Using Precipitation Data to Assess Risk of Cholera Outbreaks (2018):
- https://www.youtube.com/watch?time_continue=3&v=Gf9iww8YhSY&feature=emb_logo

Predicting Malaria Outbreaks with NASA Satellites (2017):
- https://www.youtube.com/watch?time_continue=3&v=c6g2ILL--Rw&feature=emb_logo

Mosquito Meets MODIS: South Dakota Fights West Nile Virus (2016):
- https://www.youtube.com/watch?v=ag-Zo0izSNg&t=27s

NASA Web Features on NASA-funded Projects
NASA Helps Puerto Rico Prepare for Saharan Dust Impacts (2020)
- https://www.nasa.gov/feature/nasa-helps-puerto-rico-prepare-for-saharan-dust-impacts/

How NASA is Helping the World Breathe More Easily (2020):

NASA Helps Fight the Mosquito Bite Coast-to-Coast (2019):

NASA Data Strengthens U.S. Air Quality Warnings (2019):


Space Views Aid Florida ‘Red Tide’ Health Alerts (2018):


Help NASA Track and Predict Mosquito-Borne Disease Outbreaks (2018):

NASA Helps New Yorkers Cope with Summer Swelter (2018):

Using NASA Satellite Data to Predict Malaria Outbreaks (2017):

Earth Observations are Aiding the Mission to End River Blindness (2015):
- https://science.nasa.gov/earth-science/applied-sciences/making-space-for-earth/river-blindness

Developed by Helena Chapman, MD PhD, Associate Program Manager, Health and Air Quality Applications, NASA Applied Sciences Program (helena.chapman@nasa.gov).
NASA Earth Observatory Articles on Health and Air Quality Projects
  •  https://earthobservatory.nasa.gov/features/covid-seasonality
Of Mosquitoes and Models: Tracking Disease by Satellite (2020):
  •  https://earthobservatory.nasa.gov/features/disease-vector
A Dust Plume to Remember (2020):
  •  https://earthobservatory.nasa.gov/images/146913/a-dust-plume-to-remember

NASA Participation in International Health Days
National Public Health Week
  •  2019:  https://science.nasa.gov/earth-science/applied-sciences/making-space-for-earth/public-health-week-feature
  •  2018:  https://science.nasa.gov/earth-science/applied-sciences/making-space-for-earth/one-health-day
National Mosquito Control Awareness Week
  •  2019:  https://science.nasa.gov/earth-science/applied-sciences/making-space-for-earth/fighting-mosquitoes-from-space
One Health Day
  •  2019:  https://science.nasa.gov/earth-science/applied-sciences/making-space-for-earth/nasa-earth-applied-sciences-program-celebrates-one-health-day-2019
  •  2018:  https://science.nasa.gov/earth-science/applied-sciences/making-space-for-earth/one-health-day

Information about Selected Satellites and Instruments

<table>
<thead>
<tr>
<th>Satellite/Instrument</th>
<th>Website</th>
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<tbody>
<tr>
<td>Aqua</td>
<td><a href="https://aqua.nasa.gov/">https://aqua.nasa.gov/</a></td>
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<tr>
<td>Aura</td>
<td><a href="https://aura.gsfc.nasa.gov/">https://aura.gsfc.nasa.gov/</a></td>
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<tr>
<td>Moderate Resolution Imaging Spectroradiometer (MODIS)</td>
<td><a href="https://modis.gsfc.nasa.gov/">https://modis.gsfc.nasa.gov/</a></td>
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<tr>
<td>North American Land Data Assimilation System (NLDAS)</td>
<td><a href="https://ldas.gsfc.nasa.gov/nldas">https://ldas.gsfc.nasa.gov/nldas</a></td>
</tr>
<tr>
<td>Terra</td>
<td><a href="https://terra.nasa.gov/">https://terra.nasa.gov/</a></td>
</tr>
<tr>
<td>Terrestrial Observation and Prediction System (TOPS)</td>
<td><a href="https://ecocast.arc.nasa.gov/topwp/">https://ecocast.arc.nasa.gov/topwp/</a></td>
</tr>
</tbody>
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Information about Selected Upcoming Missions
Multi-Angle Imager for Aerosols (MAIA)
  •  MAIA Mission Overview:  https://maia.jpl.nasa.gov/
  •  MAIA Early Adopters Program:  https://maia.jpl.nasa.gov/resources/data-and-applications/
Tropospheric Emissions: Monitoring Pollution (TEMPO)
  •  TEMPO Mission Overview:  http://tempo.si.edu/overview.html
  •  TEMPO Early Adopters Program:  https://weather.msfc.nasa.gov/tempo/
Plankton, Aerosol, Cloud, ocean Ecosystem (PACE)
  •  PACE Mission Overview:  https://pace.oceansciences.org/home.htm
  •  PACE Early Adopters Program:  https://pace.oceansciences.org/app_adopters.htm

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