From wildfire smoke and air quality to diseases like cholera, NASA Earth observations can show the connections between environment and public health.

**IN ACTION**

**TOPIC** / Cholera is a potentially deadly diarrheal disease from ingesting food or water contaminated with the bacterium *Vibrio cholerae*.

**PROBLEM** / Public health officials generally rely on epidemiological data to identify potential at-risk areas for cholera in Yemen. Integration of environmental, climatic and sociological processes can provide accurate cholera risk forecasting.

**SOLUTION**

Risk maps developed through NASA support now incorporate satellite-observed precipitation and ocean color measurements, more accurately forecasting cholera risk four weeks in advance to help guide public health alerts and resources for affected communities.