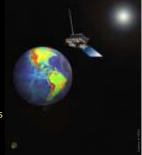


NATIONAL CENTERS FOR ENVIRONMENTAL INFORMATION

NCEI: Data Excellence

- From the ocean floor to the surface of the sun
- Trusted, reliable, unique
- Real-world relevance
- Critical to millions of customers
- Continually updated





CASE STUDY

Reinsurance Industry

- From NCEI: Global Historical Climatological Network–Daily
- Uses: Guy Carpenter, a global reinsurer, uses snow data to understand frequency and severity of snowpack formation in Boston
- Impact: Critical to billions of dollars in policy coverage



CASE STUDY

Insurance Company

- From NCEI: Next Generation Radar (NEXRAD)
- Uses: A Texas insurer used NEXRAD to review an unusually high number of roof claims after hail events
- *Impact:* Hail claims reach \$15 billion annually nationwide



CASE STUDY

Retail Industry

- From NCEI: State of the Climate Reports
- Uses: Footlocker determined warm January temperatures with lowered utility bills allowing reinvestment in infrastructure
- Impact: \$120,000 per month in cost savings for reinvestment



CASE STUDY

Retail Industry

- From NCEI: State of the Climate Reports
- Uses: Conagra ties sales of dry goods to weather and uses trends to inform product sales forecasts and to stock stores
- *Impact:* \$100,000 lost revenue from in 2 regions from warm January



CASE STUDY

U.S. Corn Growers

- From NCEI: Global Historical Climatological Network–Daily
- Uses: Farmers use climatological data to determine how much fertilizer to apply in order to minimize waste
- Impact: \$2.7B/yr saved in application costs; lessens runoff/water pollution (\$1.7B annual cost avoidance)



FEATURED PRODUCT

Next Generation Radar

- Impact: U.S. incidents >\$1B/year
- *Customers:* U.S. aviation industry and National Transportation Safety Board
- Value: NEXRAD data assist safety in real time and help analyze incidents for accountability



CASE STUDY

Utility Company

- From NCEI: Climatological and historical datasets
- Uses: San Diego Gas & Electric combined climate datasets to create a set of criteria that minimize grid system weaknesses and litigation
- Impact: >\$2 billion in savings for similar events
- NGAA NATIONAL CENTERS FOR ENVIRONMENTAL INFORMATION | 10



CASE STUDY

Energy Company

- From NCEI: Daily Temperature Data
- Uses: A Colorado utility uses temperature data to determine natural gas demand to maintain adequate winter energy supplies
- Impact: Reduction in shortages and over-supply



CASE STUDY

Trucking Firm

- From NCEI: Hourly Temperature Data
- Uses: Temperature data are used to develop guidelines to control fuel costs concerning truck idling
- Impact: Nationwide savings for idling limits are estimated at \$3 billion/year
- NOAA NATIONAL CENTERS FOR ENVIRONMENTAL INFORMATION 12



FEATURED PRODUCT

U.S. Drought Monitor

- *Impact:* Drought losses total an est. \$224 billion since 1980
- Customers: Agriculture, livestock managers, municipalities, water resource managers, firefighters
- Value: Customers across many sectors rely on weekly assessments to gain crucial information for decision-making



FEATURED PRODUCT

Global Hurricane Data

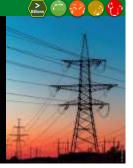
- Impact: Billion-dollar disasters
- Customers: National Hurricane Center, catastrophe modelers, and reinsurance industry
- Value: Data are incorporated into catastrophe models to protect life, safety, and welfare of Nation and globe



FEATURED PRODUCT

Space Weather Data

- *Impact:* Large-scale 150-year event estimated to cost billions
- *Customers:* Governments, energy providers, and insurance industry
- Value: Space conditions are monitored for fluctuations in order to forecast potentially disruptive events across Earth



FEATURED PRODUCT

World Magnetic Model

- Impact: Calculates magnetic field for millions of flights and users of high-tech communications
- Customers: DOD, NATO, and providers of GPS and wireless services
- Value: WMM standardizes data that contribute to navigation, altitude, and heading references for many sectors

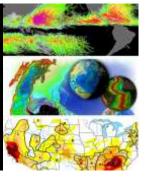




NCEI: Beyond the Data

- Promotes growth in climate, coastal, oceans, and geophysical enterprises
- Enables commerce, innovation, expansion
- Reaches far beyond U.S. government

NOAA NATIONAL CENTERS FOR ENVIRONMENTAL INFORMATION | 17



Our Value: The Bigger Picture

- Everyday, NCEI data add to the quality of life of many people and communities
- From TV weather forecasts to Smartphone apps, data provide a backbone to our lives
- Safety, security, and many modern conveniences are built on data
- NOAA NATIONAL CENTERS FOR ENVIRONMENTAL INFORMAT



The Classical Music of Data

NCEI provides many distinct products no one else in the marketplace does.

We strive to meet the dynamic needs of our customers and the Nation.

