MEDEA
Program Overview
Key MEDEA Program Finding

National Security Systems *acting in concert* with Civil and Commercial Remote Sensing Systems and *in situ* Measurements *significantly improve* collection of critical parameters necessary to *understand* and *manage* **Global Climate Change** and other **Key Environmental Issues**
What was the MEDEA Program?

- First post Cold War review of National Security Systems, Data and Archives for use in Global Climate Change, Environmental Research and Civil Applications by cleared Environmental Scientists
- Prominent cleared Scientists advised Intelligence Community and White House on Environmental Issues
- MEDEA Scientists conducted Environmental Intelligence Analysis utilizing National Security Assets
- Overlapping / inter-related Task Force studies
    - Reviewed classified Intelligence and DoD systems, Data, and Archives for Global Climate Change and other key Environmental Issues
  - MEDEA (Institutionalized ETF) – circa 1994 – 2000
    - Conducted Environmental Intelligence analysis, continued review of National Security Assets for applicability to Environmental Issues
    - ETF effort focusing on Civil Government Agency needs
    - Comprehensive review of Navy ocean data holdings applicable to Global Climate Change and other key Environmental Issues
  - Russian Environmental Task Force (Russian ETF) – circa 1995 – 2000
    - Cooperative effort between U.S. and Russia on environmental issues using Archived Data from their mutual National Security Systems
    - Established framework for utilization of Classified and Civil assets for National Disaster Early Warning and Monitoring
    - Established the Hazard Support System fusing Civil, DoD and Intelligence data for warning of fires and volcanic activity
MEDEA Program Timeline

• ETF Established
  • First Post Cold War Review of National Security Systems, Data & Archives

Volunteer discussions with Senator Gore, Scientists, IC and SSCI staffers

DCI Gates approves Gore request for ETF

ETF evaluated National Security Systems, Data & Archives for Global Climate Change and other key Environmental Issues

IC and SSCI agencies evaluated Russia Komi oil spill, averts crisis

Central Imagery Office declassification review of satellite imagery

DCI Gates authorizes priority clearing of Environmental Scientists


CIA & NRO provide Senator Gore potential use of IC systems for Global Climate Change

MEDEA supported analysis of Hurricane Mitch

Global Disaster Information Network (GDIN) established

First U.S. – Russia Data Exchange

GATF Pilot Evaluation Projects

VP Gore, DoS, DCI Woolsey, D/NASA worked to establish a U.S. – Russia ETF

U.S. – Russia ETF initiated

ETF final report focused on use of classified satellite systems, data & archives

Establish global fiducials (500 global points)

Release of declassified U.S. & Russian Arctic Ocean data (Arctic Atlas)

MEDEA Disaster “Hazard Support System” development and operations

First fusion of civil, DoD and Intelligence data

MEDEA Environment & Analysis

Release of declassified U.S. Antarctica data

Global Disaster Information Network (GDIN) proposed

Proposed MEDEA Release of Declassified U.S. Antarctica data

CIA & NRO provide Senator Gore potential use of IC systems for Global Climate Change

SSCI requests review of IC systems to support Global Climate Change

Executive Order declassifies Corona data

Declassified U.S. Navy Global Ocean data

GATF evaluates Navy Systems & Databases for global research

Navy ETF evaluates Navy Systems & Databases for global research

VP Gore, DoS, DCI Woolsey, D/NASA worked to establish a U.S. – Russia ETF

U.S. – Russia ETF initiated

ETF final report focused on use of classified satellite systems, data & archives

Establish global fiducials (500 global points)

Release of declassified U.S. & Russian Arctic Ocean data (Arctic Atlas)

MEDEA Disaster “Hazard Support System” development and operations

First fusion of civil, DoD and Intelligence data

MEDEA Environment & Analysis

Release of declassified U.S. Antarctica data

Global Disaster Information Network (GDIN) proposed

Proposed MEDEA Release of Declassified U.S. Antarctica data

CIA & NRO provide Senator Gore potential use of IC systems for Global Climate Change

SSCI requests review of IC systems to support Global Climate Change

Executive Order declassifies Corona data

Declassified U.S. Navy Global Ocean data

GATF evaluates Navy Systems & Databases for global research

Navy ETF evaluates Navy Systems & Databases for global research

VP Gore, DoS, DCI Woolsey, D/NASA worked to establish a U.S. – Russia ETF

U.S. – Russia ETF initiated

ETF final report focused on use of classified satellite systems, data & archives

Establish global fiducials (500 global points)

Release of declassified U.S. & Russian Arctic Ocean data (Arctic Atlas)

MEDEA Disaster “Hazard Support System” development and operations

First fusion of civil, DoD and Intelligence data

MEDEA Environment & Analysis

Release of declassified U.S. Antarctica data

Global Disaster Information Network (GDIN) proposed

Proposed MEDEA Release of Declassified U.S. Antarctica data

CIA & NRO provide Senator Gore potential use of IC systems for Global Climate Change

SSCI requests review of IC systems to support Global Climate Change

Executive Order declassifies Corona data

Declassified U.S. Navy Global Ocean data

GATF evaluates Navy Systems & Databases for global research

Navy ETF evaluates Navy Systems & Databases for global research

VP Gore, DoS, DCI Woolsey, D/NASA worked to establish a U.S. – Russia ETF

U.S. – Russia ETF initiated

ETF final report focused on use of classified satellite systems, data & archives

Establish global fiducials (500 global points)

Release of declassified U.S. & Russian Arctic Ocean data (Arctic Atlas)

MEDEA Disaster “Hazard Support System” development and operations

First fusion of civil, DoD and Intelligence data

MEDEA Environment & Analysis

Release of declassified U.S. Antarctica data

Global Disaster Information Network (GDIN) proposed

Proposed MEDEA Release of Declassified U.S. Antarctica data

CIA & NRO provide Senator Gore potential use of IC systems for Global Climate Change

SSCI requests review of IC systems to support Global Climate Change

Executive Order declassifies Corona data

Declassified U.S. Navy Global Ocean data

GATF evaluates Navy Systems & Databases for global research

Navy ETF evaluates Navy Systems & Databases for global research

VP Gore, DoS, DCI Woolsey, D/NASA worked to establish a U.S. – Russia ETF

U.S. – Russia ETF initiated

ETF final report focused on use of classified satellite systems, data & archives

Establish global fiducials (500 global points)

Release of declassified U.S. & Russian Arctic Ocean data (Arctic Atlas)

MEDEA Disaster “Hazard Support System” development and operations

First fusion of civil, DoD and Intelligence data

MEDEA Environment & Analysis

Release of declassified U.S. Antarctica data

Global Disaster Information Network (GDIN) proposed

Proposed MEDEA Release of Declassified U.S. Antarctica data

CIA & NRO provide Senator Gore potential use of IC systems for Global Climate Change

SSCI requests review of IC systems to support Global Climate Change

Executive Order declassifies Corona data

Declassified U.S. Navy Global Ocean data

GATF evaluates Navy Systems & Databases for global research

Navy ETF evaluates Navy Systems & Databases for global research

VP Gore, DoS, DCI Woolsey, D/NASA worked to establish a U.S. – Russia ETF

U.S. – Russia ETF initiated

ETF final report focused on use of classified satellite systems, data & archives

Establish global fiducials (500 global points)

Release of declassified U.S. & Russian Arctic Ocean data (Arctic Atlas)

MEDEA Disaster “Hazard Support System” development and operations

First fusion of civil, DoD and Intelligence data

MEDEA Environment & Analysis

Release of declassified U.S. Antarctica data

Global Disaster Information Network (GDIN) proposed

Proposed MEDEA Release of Declassified U.S. Antarctica data

CIA & NRO provide Senator Gore potential use of IC systems for Global Climate Change

SSCI requests review of IC systems to support Global Climate Change

Executive Order declassifies Corona data

Declassified U.S. Navy Global Ocean data

GATF evaluates Navy Systems & Databases for global research

Navy ETF evaluates Navy Systems & Databases for global research

VP Gore, DoS, DCI Woolsey, D/NASA worked to establish a U.S. – Russia ETF

U.S. – Russia ETF initiated

ETF final report focused on use of classified satellite systems, data & archives

Establish global fiducials (500 global points)

Release of declassified U.S. & Russian Arctic Ocean data (Arctic Atlas)

MEDEA Disaster “Hazard Support System” development and operations

First fusion of civil, DoD and Intelligence data

MEDEA Environment & Analysis

Release of declassified U.S. Antarctica data

Global Disaster Information Network (GDIN) proposed

Proposed MEDEA Release of Declassified U.S. Antarctica data

CIA & NRO provide Senator Gore potential use of IC systems for Global Climate Change

SSCI requests review of IC systems to support Global Climate Change

Executive Order declassifies Corona data

Declassified U.S. Navy Global Ocean data

GATF evaluates Navy Systems & Databases for global research

Navy ETF evaluates Navy Systems & Databases for global research

VP Gore, DoS, DCI Woolsey, D/NASA worked to establish a U.S. – Russia ETF

U.S. – Russia ETF initiated

ETF final report focused on use of classified satellite systems, data & archives

Establish global fiducials (500 global points)

Release of declassified U.S. & Russian Arctic Ocean data (Arctic Atlas)

MEDEA Disaster “Hazard Support System” development and operations

First fusion of civil, DoD and Intelligence data

MEDEA Environment & Analysis

Release of declassified U.S. Antarctica data

Global Disaster Information Network (GDIN) proposed

Proposed MEDEA Release of Declassified U.S. Antarctica data

CIA & NRO provide Senator Gore potential use of IC systems for Global Climate Change

SSCI requests review of IC systems to support Global Climate Change

Executive Order declassifies Corona data

Declassified U.S. Navy Global Ocean data

GATF evaluates Navy Systems & Databases for global research

Navy ETF evaluates Navy Systems & Databases for global research

VP Gore, DoS, DCI Woolsey, D/NASA worked to establish a U.S. – Russia ETF

U.S. – Russia ETF initiated

ETF final report focused on use of classified satellite systems, data & archives

Establish global fiducials (500 global points)

Release of declassified U.S. & Russian Arctic Ocean data (Arctic Atlas)
MEDEA Program Key Achievements

First review of National Security Systems, Data and Archives for Global Climate Change and other key environmental issues

– Natural Disasters, Oceanography, Geologic Processes, Ecology, Forestry, Arctic and Antarctic Processes, Desertification, and Land use

Presidential Executive Order: Corona Declassification, 1995

– Release of Declassified Imagery archives
  • CORONA/ARGON/LANDYARD (1960-1972) providing scientists a historical record of the Earth’s Surface

President Clinton announced the Intelligence Community’s Declassification and Release of Imagery Derived Products from Current Imagery Archives for Environment Issues, 1999

– SHEBA, 59 Images
– Antarctica, 7 Images
– Jornada Basin Long Term Ecological Research Site, 40 Images
MEDEA Program Key Achievements

**Release of U.S. Navy Oceanographic and Geodetic Data Holdings**
- Treasure trove of Historical Data to Support Global Climate Models

**First open cooperation between U.S. and Russian Intelligence and Defense Services for purpose of working on joint Environmental Projects**
- First exchange between Russia and the U.S. of Unclassified Derived Products from our Mutual Classified Satellite Systems
- Cooperation resulted in release of Russian Navy and U.S. Navy formerly restricted oceanographic data from Arctic Ocean which tripled amount of data to scientific community
MEDEA Program Key Achievements

First integrated use of Classified and Civil remote sensing collection systems to Manage Natural Disasters

- Established Hazard Support System at U.S. Geological Survey (USGS) facility for early warning of fires and volcanic activity

Presidential Executive Order: Global Disaster Information Network, 2000
- Established GDIN Concept
MEDEA Program Key Achievements

MEDEA drives Intelligence Community’s Environmental Analysis
– Established DCI Environmental Center

September 2000
Detection and Suppression of Wildland Fires: The Hazard Support System

March 2000
India’s Environmental Challenges

June 2000
China and the Kyoto Protocol: Emissions Trading and the Clean Development Mechanism

April 2000
National Security, Intelligence, and Environment; the roles of MEDEA