

The following is the text found on the Special Recognition Award presented to the California Data Exchange Center of the Department of Water Resources at the 2008 California Extreme Precipitation Symposium held at the University of California, Davis on June 20, 2008.

SPECIAL RECOGNITION AWARD

Presented to

California Data Exchange Center California Department of Water Resources

Well-informed water management depends on accurate weather and water data. For more than 25 years, the California Data Exchange Center of the Department of Water Resources has met this need in an extraordinarily efficient, reliable, robust, and user-friendly manner. Day in and day out, CDEC collects, stores, and organizes data on precipitation, snow water content, river water level, reservoir pool elevation, and other hydrometeorological conditions throughout the state. CDEC then disseminates these data in a free and open manner via its Website and specialized links. The rapidly escalating traffic on the Website, especially during flood events, reflects its growing importance.

Using data from CDEC, National Weather Service, and DWR, staff issue real-time river and reservoir inflow forecasts; emergency response managers and the public make decisions and act to save lives and property from flooding; Central Valley Project, State Water Project, and other water system operators make decisions about reservoir releases, diversions, and deliveries for water supply and flood management; regulatory agencies make critical water-related decisions about ecosystems and fisheries; and numerous citizens, as well as the media, use its many products to keep informed on weather and water matters.

This award is presented to CDEC and its past and present staff and managers in recognition of the significant contribution of the institution and the individuals to better water management in California. The early supporters and developers had a great understanding of the value of data and interagency cooperation, a vision for making the data available to a rapidly growing audience, and the technical skill to do so. Over the years staff has furthered the vision and continue to innovate and create an invaluable data resource for all involved with or influenced by water management within the State of California. In so doing, CDEC staff, past and present, have exhibited a passionate commitment to providing excellent public service, and in so doing, reflect great credit upon the Department of Water Resources, the State of California, and themselves.


June 20, 2008
2008 California Extreme Precipitation Symposium

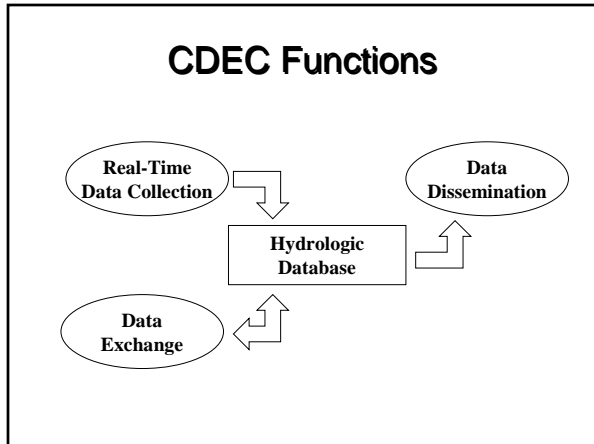


CDEC Major Contributors

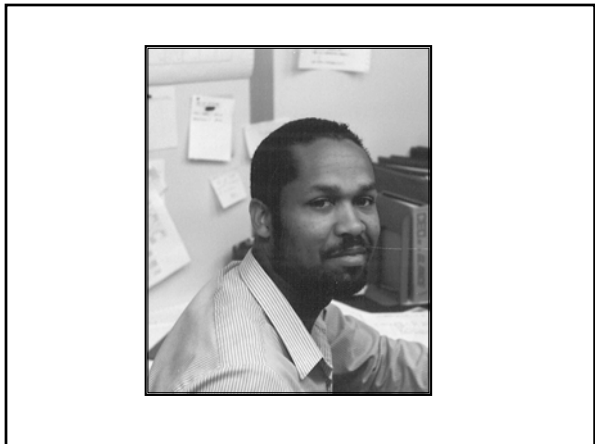
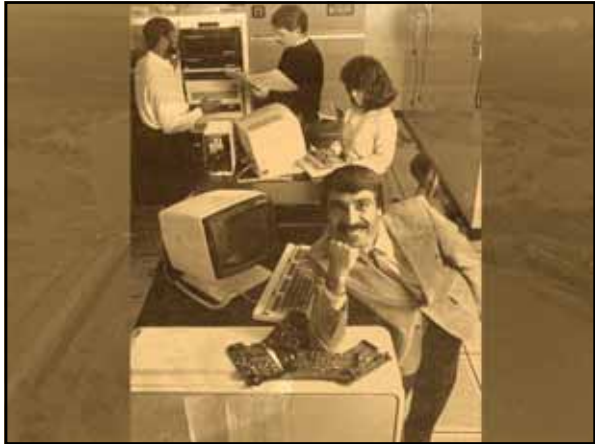
Jess Bringham
 George Patrick
 Don Neudeck

- ### Basic Uses of CDEC Data
- Early flood forecasting and warning
 - Monitoring river levels
 - Water supply forecasting
 - Planning reservoir releases
 - Monitor water quality in the Delta
 - Recreational use of water ways

- ### Life Before CDEC
- Flood related information was gathered by phone.
 - Water supply and climate data were gathered manually.
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- ### CDEC Earlier Platform
- Data General S140 mini-computer
 - Data collection platforms
 - Communication networks



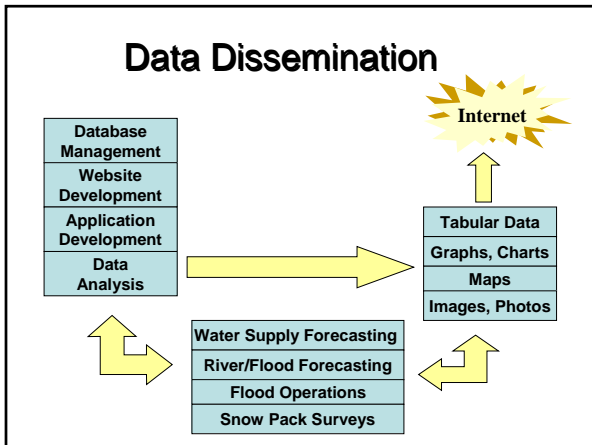
Since Its Inception In 1981, CDEC Has Undergone Multiple Transformations To Keep Pace With Technology

1981	<ul style="list-style-type: none"> • Remote user access via dial-up modem • Applications are character-based and developed using FORTRAN
1984	<ul style="list-style-type: none"> • Developed and implemented initial electronic exchange of data with other Federal agencies National Weather Service (NWS), US Bureau of Reclamation (USBR), US Army Corps of Engineers (USACE) • Real-time data collected for approximately 300 station-sensors
1986-1987	<ul style="list-style-type: none"> • Installation and implementation of two minicomputers (Data General MVX OS) to handle increased demands for data access • Network connectivity for remote users
1994	<ul style="list-style-type: none"> • Installation, implementation, and migration to Hewlett Packard Unix servers and Ingres Relational Database Management System
1995	<ul style="list-style-type: none"> • Development of CDEC website accessible via the Internet for data dissemination • Relocation of DFM-CDEC to Joint Operations Center with DWR Project Operations Center (POC), NWS, and USBR • 12,000 hits to website for the entire water year
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1997	<ul style="list-style-type: none"> • Average of 35,000 hits to website per week
1998-1999	<ul style="list-style-type: none"> • Conversion of database from Ingres RDBMS to Oracle RDBMS
1999	<ul style="list-style-type: none"> • A web server and database server were moved from the JOC to the Resources Building to provide access to the CDEC website for the general public and to provide an off-site backup location • The cdec4gov intranet website was created to provide more responsive information access to public safety agency users • Peak weekly hits to website: 171,000
2000	<ul style="list-style-type: none"> • Peak weekly hits to website: 337,000
2001	<ul style="list-style-type: none"> • Peak weekly hits to website: 665,000
2002	<ul style="list-style-type: none"> • Peak weekly hits to website: 365,000
2003	<ul style="list-style-type: none"> • 12 million hits to website for the year • Collected data for approximately 9,000 station-sensors • Peak weekly hits to website: 507,000
2004	<ul style="list-style-type: none"> • Peak weekly hits to website: 1,352,000
2005	<ul style="list-style-type: none"> • Peak weekly hits to website: 1,477,000
2006	<ul style="list-style-type: none"> • Peak weekly hits to website: 3,322,207



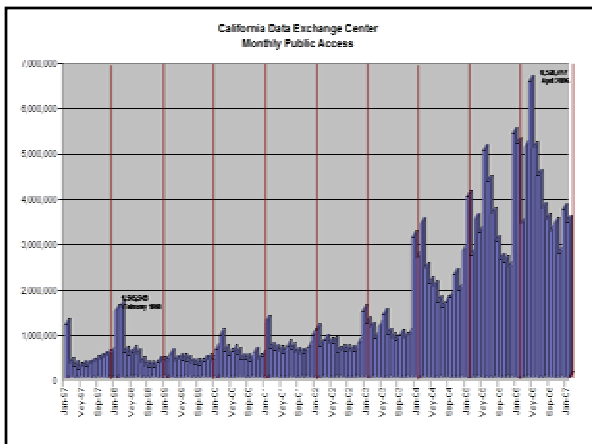
Data Exchange

- Electronic transfer of information between federal, state and public agencies, such as the National Weather Service, US Bureau of Reclamation, and US Army Corps of Engineers.
- Data from 410 stations are received and stored in a centralized database.
- Other information includes summary reports and real-time imagery.



Data Dissemination

- Government and public access
- Internet Web server
– (<http://cdec.water.ca.gov>)
- Intranet Web server
– (<http://cdec4gov.water.ca.gov>)
- Ability to display data in various ways, e.g., plots, pictures, photos, maps, etc.



Upcoming Enhancements

- Able to view reports in HTML and PDF (for better printing).
- Use of more map interfaces to locate information.
- Expansion of information indexing.

California Data Exchange Center Monthly Public Access

