ET Investigations involving METRIC/Landsat -- Applications for Water Management

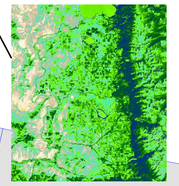
University of Idaho and Associates/Partners

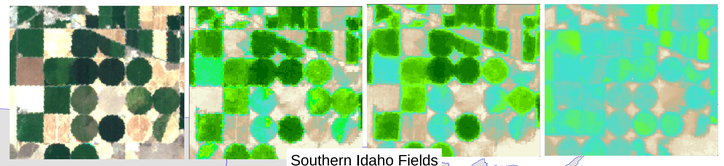
Richard Allen (UI), Ricardo Trezza (UI), Bill Kramber (IDWR), Tony Morse (SAG), Jan Hendrickx (NMT), Ayse Irmak (UNL), Justin Huntington (DRI), Clarence Robison (UI), Carlos Kelly (UI), Jeppe Kjaersgaard (UI), Jeremy Greth (UI), Masahiro Tasumi (UI), Tim Martin (RTI)

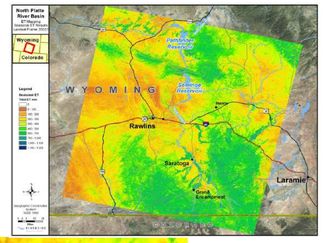
UI: University of Idaho
IDWR: Idaho Department of Water Resources
SAG: Spatial Analysis Group (Morse)
NMT: New Mexico Tech.
UNL: University of Nebraska, Lincoln
DRI: Desert Research Institute

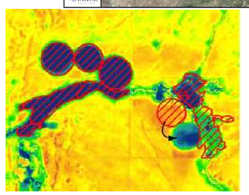
RTI: Riverside Technologies, Inc, Fort Collins CO
SHA: Soil Hydrology Associates, Los Lunas NM (Hendrickx)
MDNRC: Montana Department of Natural Resources and Cons
OSE: Office of State Engineer
NRD: Natural Resource District

ET+: Evapotranspiration Plus, Twin Falls ID (Allen)
MBMG: Montana Bureau of Mining and Geology
SNA: SEBAL North America
NMSU: New Mexico State University
CSU: Colorado State University


Flathead Valley, MT


Southern Idaho Fields


Upper North Platte River, WY



Yakima River Basin -- calibration of large scale energy balance models for assessing climate change. (Univ. Wash.)

Flathead Indian Reservation -- irrigation water consumption for managing streamflows (UI for MDNRC)

Klamath Basin -- water for grazing and local ecosystem interactions, ground water balance, irrigated areas (UI, ET+ for USGS, USFS)

Ground water recharge estimation in four basins: Helena, White Sulpher Springs, Dillon, and Bozeman. (UI for USGS, MBMG)

Lemhi River -- irrigation management for salmon recovery (IDWR, UI for IDWR)

Green River/Upper Colorado River (UWYO, SHA, RTI, ET+ for WY-OSE)

Boise River Valley -- agricultural to urban land use change. (IDWR for IDWR)

Upper North Platte -- water decree compliance (RTI, ET+)

Ogallala aquifer -- ground water management, mitigation and Riparian ET (UNL, UI for NRD's)

Central Iowa -- ET from Agriculture (USDA-ARS, UI)

Eastern Snake Plain -- irrigation transfers, ground water model calibration (UI for IDWR)

Bear River -- Interstate Compact (UI for IDWR)

South Platte -- conjuctive management of ground water and surface water (RTI, UI)

Central Nebraska -- comparison to measured ET (UNL)

Western Neveda -- water transfers between irrigated agriculture, municipalities, and playas. (DRI, UI, NV-OSE for NV-OSE)

Owens Valley -- ET of Desert (NMSU)

Arkansas River -- assessment of water shortage and salinity impacts (CSU)

Middle Rio Grande -- water consumption by invasive vegetation (UI for USDOJ)

Imperial Irrigation District - impacts of water conservation measures, salinity, and timing of ET (UI, SNA)

Lower Rio Grande -- water use by irrigated agriculture (NMSU, UI, for NM-OSE)

Palo Verde Irrigation District - intercomparison of ET methods (USU, USGS, USBR, UI)

Amarillo Area (USDA-ARS, UI)

Lubbock Region (SHA)

Tampa Bay Water (ET+ for TBW)

IDWR

Richard Allen University of Idaho

Justin Huntington DRI

Tim Martin RTI

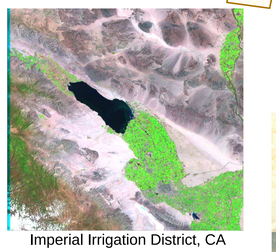
Ayse Irmak UNL

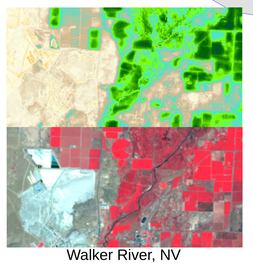
Jan Hendrickx NMT

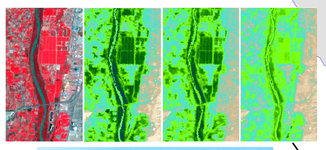
Martha Anderson USDA-ARS

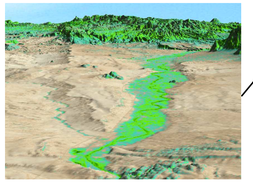
Washington, Oregon, California, Nevada, Idaho, Montana, Wyoming, Utah, Colorado, Arizona, New Mexico, North Dakota, South Dakota, Nebraska, Kansas, Oklahoma, Texas, Minnesota, Iowa, Missouri, Arkansas, Louisiana, Wisconsin, Michigan, Illinois, Indiana, Ohio, Kentucky, Tennessee, Mississippi, Alabama, Georgia, Florida, South Carolina, North Carolina, Virginia, West Virginia, Pennsylvania, New York, Vermont, Maine

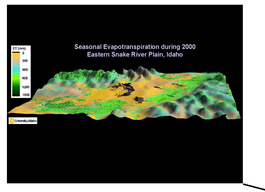
Boise, Kimberly, Reno, Fort Collins, Lincoln, New Mexico, Helena

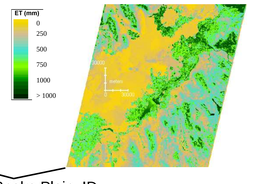

Imperial Irrigation District, CA


Walker River, NV

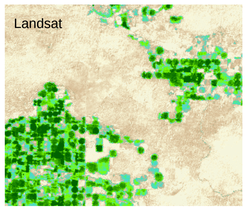


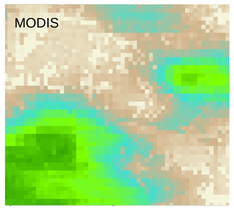

Middle Rio Grande, NM



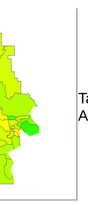


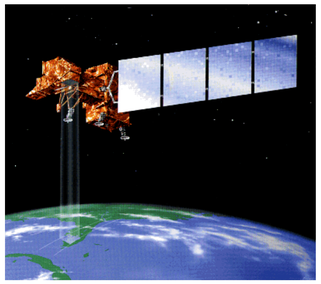
Eastern Snake Plain, ID





Minidoka, ID


Tampa Bay Area, FL



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