Root is LEADING ON CLIMATE

A Military Veteran with Grit



C-141 Navigator **Strategic Global Airlift**



Tactical Combat Airlift Troops and Supplies



EC-47 Navigator Tactical Military Intelligence



Captain Root Routledge Vietnam Combat Veteran Distinguished Flying Cross



Root Routledge, PhD Colorado, CD3, U.S. House, 2020 RootForCitizenCongressman.org

A Problem Solver Who Knows Systems

A viable future calls for a system-wide perspective and response

Strategic Vision for a Viable American Future

- Progressive Western Democrat
- Authentic Leader Trust and Integrity Leading with Vision and Conviction
- Grassroots Campaign No Corporate or PAC Money
- Patriotic Vision American People, Our Common Good, A Viable Future
- Strategic Priorities
- » Healthy Democracy: HR1 Fix Our Democracy First **Equal Citizen Participation**
- » Healthy Population: HR1384 Comprehensive Medicare for All **Progressive Financing**
- » Healthy Environment: HR763, HRes109 Carbon Fee-and-Dividend, Just Transition Distributed Renewable Energy Clean Energy, Ban Fracking, Energy Indep
- » Healthy Economy: Pres Bernie Sanders Econ Justice, Public Projects \Rightarrow Public Bank Free Public Education, Strng Econ \Rightarrow Jobs, Livable Wage, Infrastructure, Commons
- Protect the Colorado We Love Public Lands, Water Consrvn, Rural Needs, Founder, Alpine Analytics Strong Local Economy, Fund Fire Fighters

A Westerner Who **Means Business**



Owned Horses Gathered Cattle Grazing Impact Studies



Trail Rides & Packing Natural Resource Management



Root Routledge, PhD Industrial Consultant

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Root is LEADING on Climate

RootForCitizenCongressman.org

117th U.S. Congress, House of Representatives, 2020 Election



Root Routledge, PhD Colorado, CD3

Progressive Western Democrat Grassroots, no corporate/PAC money

Strategic Vision for a Viable American Future

Healthy Democracy

- » HR 1: For The People Act
- · Election access, integrity, security restore VRA, indep nonpartisan redistricting
- Campgn finance emprmt, small\$, C/U fndgs
- · Ethics, conflict-of-interest, transparency

Healthy Population

- » HR 1384: Medicare For All Act
- · Universal: All are covered, provider choice
- Comprehensive expanded benefits
- · National health budget no premiums, no deductibles or co-pays, meds covered

Healthy Environment

- » HR 763: Energy Innovation and Carbon Dividend Act
- Incng Fee on Carbon at source, adj/progress
- · Good for People & Economy, Rev neutral
- Effective: Mkt resp drvs CO₂ emns to net=0
- · Dividend pmts to all U.S. Citzns/Lawful res
- » HRes 109: Green New Deal
- · A system-wide perspective and response

Healthy Economy

- Inc Prgressive House; take Senate & Ldrshp
- Pres Bernie Sanders window to the future

We are out of time...

Our climate is rapidly destabilizing — we are at the precipice of runaway tipping points due to nonlinear feedback loops spiraling out of control. We need to turn the corner now!





The Arctic Affects **Everything**



Ice shelves, sea ice and glaciers are rapidly disappearing. Glacier National Park had 150 glaciers in the late 1800s; it now has 26, with area loss of 90%. Glaciers are the sole source of drinking water for 250 million people. None will be left by 2100. Antarctica has had a 6-fold increase in melting since the 1970s. Green-land lost enough water the last two days of July, 2019, to cover Florida by 5 inches This nonlinear phenomena could see a sealevel rise of over 3 meters by 2050 Source: Dahr Jamail, The End of Ice, 2019



An iceless Arctic will cause polar bears and other species to go extinct. Marine habitat mammals require sea ice to hunt and feed. Planetary climate stability depends on ice. Impacts of the loss of Arctic ice are enormous due to Earth's massive thermal and mass inertia interacting with amplifying feedbacks, Melting fresh water entering the North Atlantic is altering the Gulf Stream, which affects the temperature





lake-hottom methane-hydrates release massive amounts of CH₄, with at least 25x CO2 equivalent, pushing us to the tipping point brink. Such an enormous aggregate of multiple nonlinear changes are abrupt, unexpected, and challenging to predict.



determined by the impact of the Arctic on the let stream. The Arctic is warming at ice the rate of planetary global warm ing Farth is poised to experience strong amplifying polar feedbacks to moderate warming, Source: Dr James Hansen





duration and areas burned - twice what would have burned had climate change not occurred. Drying and beetle infected forests can become net carbon emitters



used more frequently to cool crops as aquifers are depleted and not recharged, and water tables continue to drop



Increasing frequency, intensity and



fatal heat stress due to heat extremes

Western Colorado

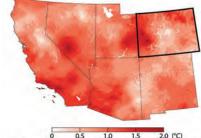


U.S. Global Change Research Program

Increasing disruption to agricultural productivity Livestock health, declining crop yields and quality, dropping groundwater and extreme events threaten ru



Report - Northwest Colorado Council of Governments Headwater Counties: Eagle, Grand, Gunnison, Pitkin, Routt, and Summit - Water & snow are at climate risk Less winter precipitation as snow, more as rain: snowpacks declining; snowmelt occurring earlier in season. All result in decreased river flows, including the Colora do River, largest source of water in the country's driest region; providing irrigation water as well as drinking



The impacts are current, pressing, and very serious

Average Temperature Increase in Western Colorado Past 30 years (1986-2016) vs Early 20th Century (1901-1960)









Native Colorado cutthroat trout at risk flows and habitat fragmentation







winters lead to physiological stress and

Loss of alpine habitat can lead to local