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MANY THANKS TO 20th CPASW ORGANIZERS and CONTRIBUTORS

- Tami Houston (NCEI) Co-Host & Master of all!
- **lenny Dissen** (NCICS) -instrumental in organizing events & engaging stakeholders, agenda development
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- Ko Barrett, Deke Arndt, & David DeWitt (NOAA), Dawn Chávez (Asheville GreenWorks), Michelle Ragland (Pratt & Whitney), and Bill Danyluk (14th
) Weather Squadron), Sarah Fraser (New Belgium)- Keynote, Invited, and Special Guest Speakers
 - All moderators and speakers









THIS WEEK WE HEARD...

What's the 'Ready Nation' of the WRN? What skillsets are needed to implement -Gina Eosco

The use of the thing you are providing is what drives the value -Gina Eosco

The new toolbox give

users a new modern

and out with ease

between regional

experience to zoom in

maps and local charts

Melissa Widhalm

Pinpoint what

the issues are,

and take action

on the biggest

-Ron Jarvis,

Home Depot

one first

Working together requires an open mind -Melissa Kenney

Risk
Communication
provides adequate
information about
hazards, potential
risk and mitigation
steps - ZhiQiang
Chen

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CRN requires all partners (including public)playing their part in building resilience Ko Barrett

Inspire, equip, and mobilize communities for equitable and climate resilient future Dawn Chávez, Asheville

Greenworks

Don't ask users what they want, ask them what they do. The 'general public' is not a user -Dave Michelson

Authoritative means science, service, and stewardship Deke Arndt

Future goals include formalization of procedures, continued communication with regional partners, and iterative improvements to KM -Jon Gottschalck

Partnerships are core to the Applied Sciences Program -Allison Leidner, NASA

Co-produce products that allow partners to tailor forecasts to their decisions Dave DeWitt

Let's stop working in silos, and reach out and make connections. Steve Baxter

NWS

Facility designed to contribute zero waste water discharge into the French Broad river.
-Michelle Ragland

NOAA is our strongest state climate partner Hope Mizzell

Local NWS
offices add
value to climate
outlooks by
interfacing with
their partners
-Tim Armstrong

We want a
future where
human
ambitions are in
sync with a
thriving planet
-Michelle
Ragland

Increasing action and adding value to weather and climate data

Clyde Friaisse

The Week-2 outlook helps the transportation dept make the right decisions and get their equipments ready.

- Brandon Hoving.

Value chains
[for climate
services] are
not linear and
complicated
-Vanessa

Escobar

reanalysis
enables better
coastal
preparedness
and resilience
-Taylor Asher

Hi-res coastal

Give a chance for decision makers to play with the climate data Bruce Ford

How the outlooks are used are highly-context dependent (location, user type, timing of decisions)
Melissa Kenney

Education vs.
Training: What
to do vs. how
to do it
-Jim Fox

Collect... Protect..
and Exploit [in a
good way]
authoritative
climate data
Lt Col Bill
Danyuluk

If we work together to merge socioeconomic data and climate data, we can be a CRN -Jared Rennie NESDIS | NCEI

Increasing risk
highlights the need
for rapid attention to
equitable, resilient
communities
-Jim Fox







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GOOD PRACTICES for CS APPLICATIONS

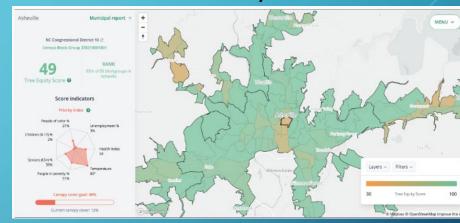
AgroClimate by Clyde Fraisse



USAF Decision Making Process by Bill Danyuluk



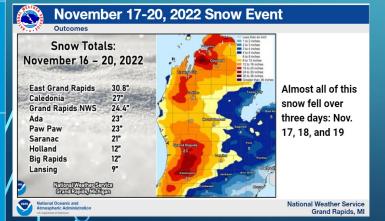
Asheville GreenWorks Tool by Dawn Chavez





8-14 Day IDSS for DOT by Brandon Hoving

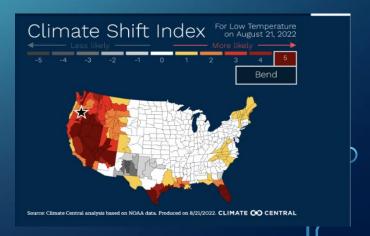




NOAA's Pathfinder Initiative by Vanessa



Climate Shift Index by Andy Pershing









- Models to translate humidity/temp data to farmers to make decisions about their crops/farms
- Local climate outlook and climatological risks supporting local governments, transportation, media, and public among other users
- Understand user preferences for forecast categories of climate outlooks (2/3/more)
- Modern world demands advanced way of projecting user needs
 - explore option for Al use to assess future user demands
 - invest in service that is centric on data rather than on products
 - provide services that make user dependable (Apple's approach)
- Improve options for climate data access
- Rapid attribution in terms of change in likelihood and magnitude due to climate change







- NWS Training resources can benefit broader climate services community
- Understanding user preferences for climatic thresholds is critical for product and service development
- Leveraging SBES to understand what users do and how we can provide actionable climate services
- Explore Task Force for Climate-related Financial Disclosure (TCFD)
 resources to evaluate NOAA climate product suite usability in retail sector
- Engage with a community of practice
- NWS-NCEI collaboration on integration of socioeconomic and NWS products to improve weather, water, and climate service equity
- Strengthen community of climate services providers to minimize service redundancy and maximize service effectiveness







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HOW WILL WE MAKE IT HAPPEN?

National

- Science, Service, and Stewardship
- CS focus on societal challenges
- Interagency coordination and public-private partnerships
- CS usability, translation, and relevance
- Core science capabilities
- Improve data access options
- Incorporate socioeconomic data to improve service equity.
- Foster infusion of new technologies and innovative practices in understanding user needs and services dissemination

Regional

- Data and tools for Wet-Bulb Globe Temp,
- Useful new products: Heat Risk, Week-2 Extreme Heat/Heat Waves Outlooks, CPC regional Week-2 products
- Operationalize new services developed in partnership with research community such NIHHIS
- Creating the environment where there is no "wrong door" for users to obtain climate information and decision support services

Local

- Supporting user communities including public health, labor, agriculture, infrastructure, etc.
- Using various formats for dissemination of climate messaging
- Applying climate guidance from NOAA centers to produce services for local users
- Provide enhanced outreach to underserved users including heat-equity mapper, CPC key messages, and other resources









- We thank our partners and participants of the 20th CPASW!
- Looking forward to 21st CPASW
- Potential discussion topics may include:
 - Foreseeing future climate services using past, present, and future data and products
 - Providing actionable climate information for impactful weather and water events
 - Supporting climate decisions in various sectors including national and environmental security
 - Including new technologies in delivering climate services to users and public
 - Maximizing effectiveness of climate services value chain



