

SMARTCITY
EXPO WORLD CONGRESS



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It wasn't me







CARBON DIOXIDE CLIMB

Daily Update

PPM

400

350

300

250

200

800,000

600,000

400,000

200,000

NOW

YEARS BEFORE NOW

TODAY:

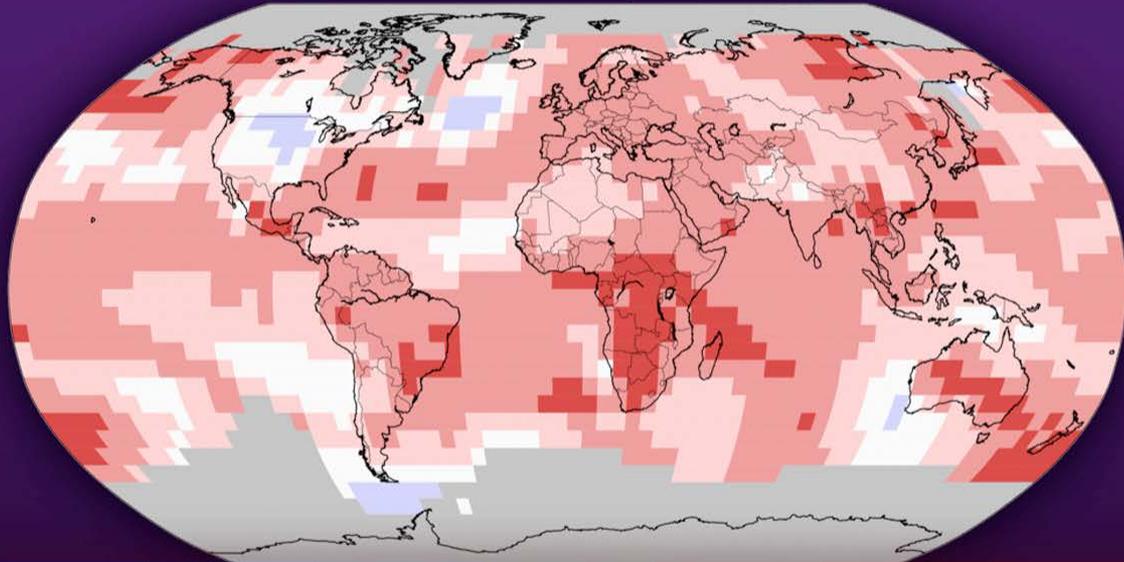
1910
300 PPM

Source: Luthi et al (2008) (cdiac.ornl.gov) & NOAA ESRL (esrl.noaa.gov)

CLIMATE  CENTRAL

2019 GLOBAL TEMPS

January-July Land and Ocean Temperature



RECORD
COLDEST

MUCH
COOLER

COOLER

NEAR
AVERAGE

WARMER

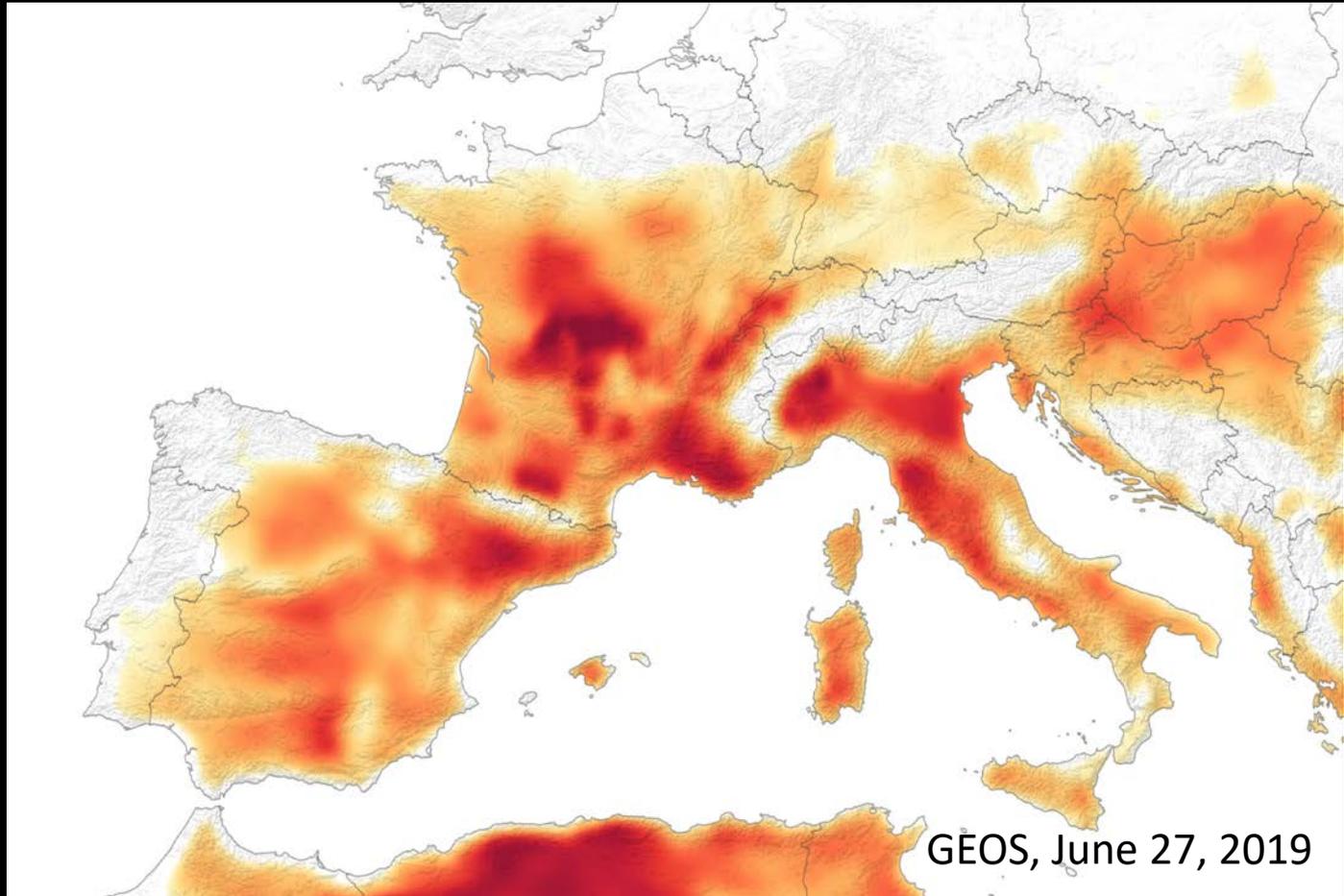
MUCH
WARMER

RECORD
WARMEST

Data as of 8/15/2019
Source: NOAA/NCEI Climate at a Glance

CLIMATE  CENTRAL

Air temperatures @2 meters, dark red areas show temperatures $> 40^{\circ}\text{C}$

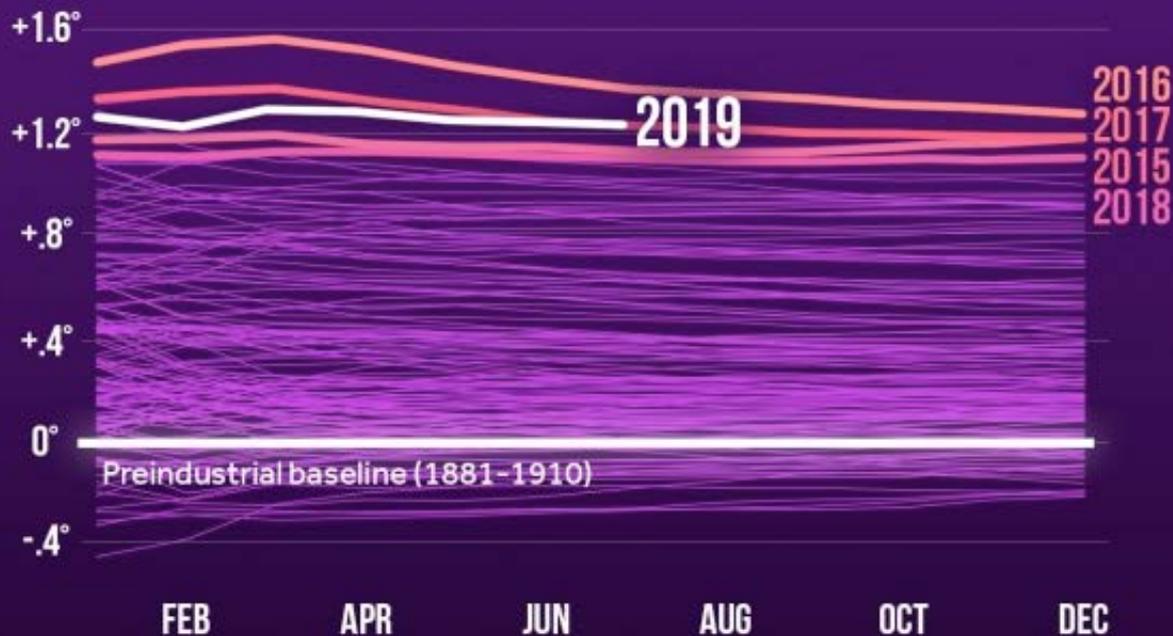






HOTTEST YEARS

Global Year-to-Date Anomalies (°C) Since 1880



Source: NASA GISS & NOAA NCEI global temperature anomalies averaged and adjusted to early industrial baseline (1881-1910). Data as of 8/15/2019

CLIMATE  CENTRAL



Sea Level



NASA Goddard Space Flight Center



Commuters of Burbank



Burbank commuters come in all kinds. People bike, walk, bus, scoot, carpool, vanpool and drive. This series is intended to share the stories of commuters who demonstrate it's possible to get to work without driving alone! This month we're featuring two amazing commuters!

Burbank Transportation Management Organization



LEARN TO MASTER ZERO WASTE CONCEPTS!

Zero Waste mimics Nature's design where discarded materials become resources for others to use, instead of trash. The Waste Warrior program is a volunteer training for people who want to learn more about Zero Waste, engage their community, and shape the future.

The program includes eight classes highlighting the 6 Rs of waste reduction:

- Rethink (redesign systems, habits, & mindsets)
- Refuse (say no to unnecessary waste)
- Reduce (share it, rent it, borrow it)
- Reuse (repair & repurpose)
- Recycle (sort it & send it on)
- Return (give nutrients back to nature)

The Waste Warrior program is free. Classes include lively discussions, hands on learning, tours, guest speakers, and instruction from the professionals at the Burbank Recycle Center.

BECOME A CHANGE AGENT

Waste Warriors who complete all eight classes and thirty hours of volunteer time will receive a graduation certificate and recognition by the Burbank City Council. Community projects may focus on waste reduction, thoughtful consumption, composting, or recycling.



HOW WILL YOU MAKE A DIFFERENCE AS A WASTE WARRIOR?

Zero Waste isn't about "no" waste, but instead it's a commitment to continual improvement. It calls on everyone to rethink, reduce, reuse, and recycle far more than ever before.

Waste Warriors will raise awareness and skills in the community by:

- Speaking to friends, neighbors, & local groups
- Working on a Burbank Recycle Center team project
- Organizing waste prevention & recycling projects
- Engaging businesses & residents at events
- Boosting existing recycling programs at schools, businesses, and organizations.
- Volunteering and giving back

FOR ADDITIONAL QUESTIONS:

Amy Hammes, Recycling Specialist
AHammes@burbankca.gov
818-238-3900

ADVANCE REGISTRATION IS REQUIRED

Class is limited to 25 Burbank residents. Non-residents will be put on a waiting list.

www.BurbankRecycle.org
(look for the Waste Warrior tab)



BURBANK WASTE WARRIORS PROGRAM



FREE RESIDENT ZERO WASTE TRAINING

Starts January 11th

Brought to you by



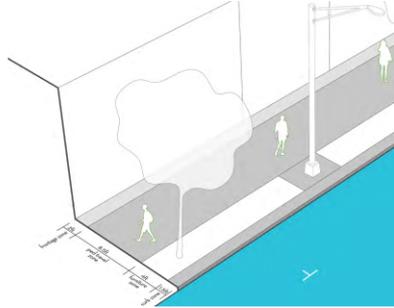
HOW CAN WE BUILD A SAFER, MORE WALKABLE DOWNTOWN?



OPTION 1: ONEWAY RECONFIGURATION

San Fernando is a one-way from Civic to Myrtle. Current round lead lanes only. Street is a big parking lot. Buses are included. Diagonal parking on both sides of the street.

NEWSIDE WALK ZONES ON SAN FERNANDO BLVD



potential design solutions could include:

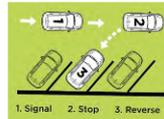
- Being 60 feet wide with a center lane 15 feet wide with a Subway red sign in the middle
- Sidewalk 5 feet wide with a center lane 15 feet wide with a Subway red sign in the middle
- Sidewalk 5 feet wide with a center lane 15 feet wide with a Subway red sign in the middle
- Sidewalk 5 feet wide with a center lane 15 feet wide with a Subway red sign in the middle
- Sidewalk 5 feet wide with a center lane 15 feet wide with a Subway red sign in the middle

OPTION 2: SHORT TERM PHASE FOR ONEWAY



San Fernando is a one-way from Civic Ave to Myrtle Blvd. Two lead lanes. Being diagonal parking on both sides.

what could this look like?



potential design solutions could include:

- Street design is a one-way from Civic Ave to Myrtle Blvd
- Being diagonal parking on both sides. Sidewalk on the west side. Sidewalk on the east side.
- The street design could be a one-way from Civic Ave to Myrtle Blvd.

HOW CAN WE GREEN BURBANK'S STREETS?

CLEAN/REUSE/REPLENISH RAINWATER

infiltration planters, lake street, burbank

infiltration swale

Rainwater is a precious resource in an area of the US that only gets 17 inches of rainfall a year (compared to the national average of 38 inches). Planting areas designed to collect and filter rainwater can recharge aquifers or clean rainwater before it heads to the ocean. Various bioretention strategies can be employed from permeable paving, infiltration and flow-thru planters to collect and filter the water through layers of vegetation and soils.



REDUCE HEAT ON THE STREET



increase tree canopy and light colored paving materials

increase planting

permeable paving

shade from canopies

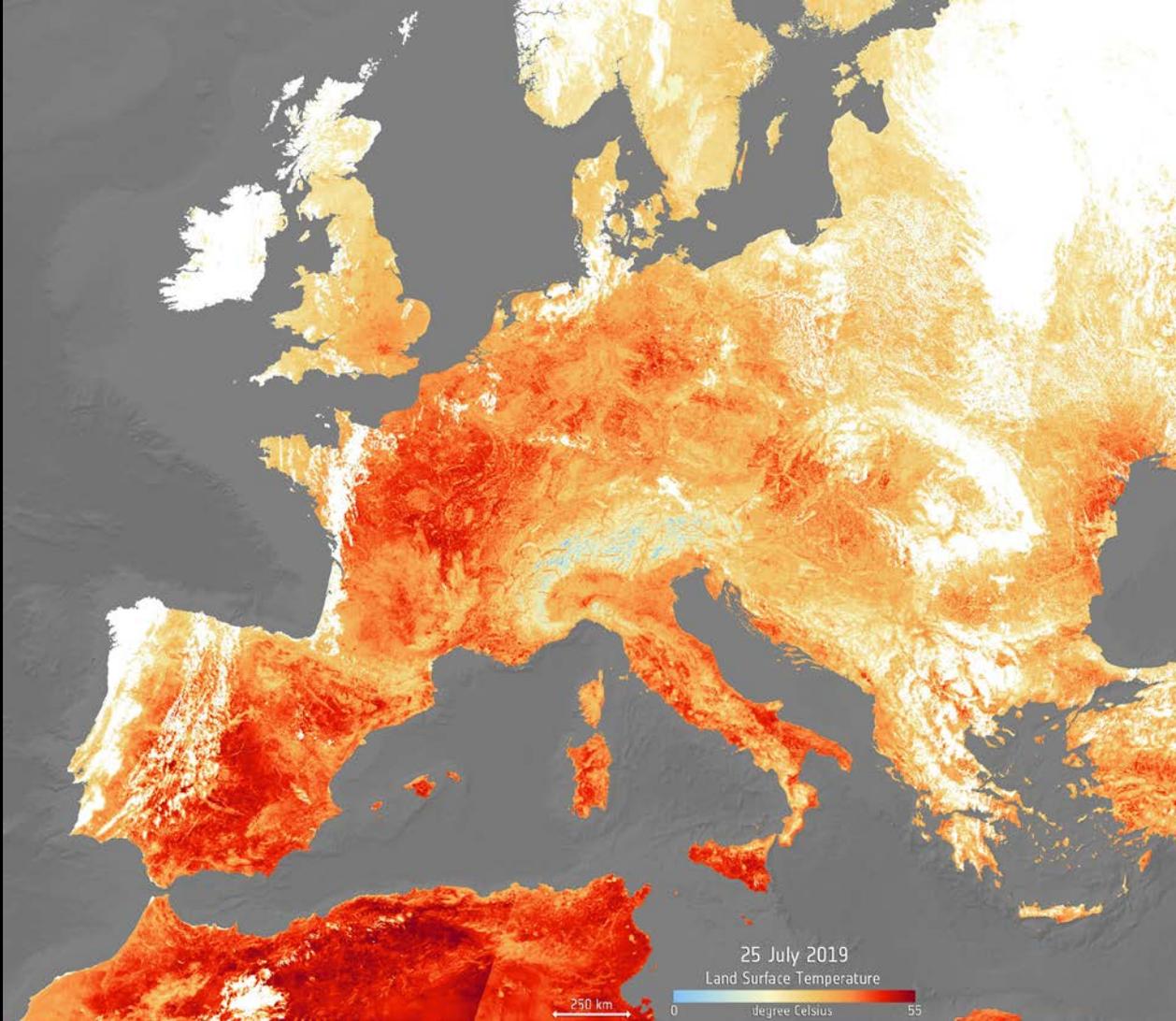






Thomas Chapin - USGS











EARTH SCIENCE









