

Coalition Meeting Agenda Thursday, June 16, 2022 - 9 am to Noon

Virtual Only <u>https://global.gotomeeting.com/meeting/join/684815309</u> Use speakers or call in at 1 (626) 521-0015, Access Code: 684-815-309, Meeting ID:684-815-309

NOTE: This meeting will be recorded

Time	Торіс
9:00 – 9:10 am	Welcome, Introductions & Announcements – Eric Alberts, 2022 Board Chair
	Please confirm your attendance by putting your name and organization name in the chat function, or by emailing your name and organization to info@centralfladisaster.org
9:10- 9:45 am	CFDMC Updates:
	2022 Accomplishments to Date - Reginald Kornegay
	2022-2024 Work Plan and Budget: Clint Sperber & Lynda W.G. Mason
9:45 - 10:15 am	Hurricane Season Briefing: Kevin Rodriguez, National Weather Service, Melbourne
10:15 - 10:45 am	Radiation Injury Treatment Network - Eric Alberts
10-45 - 11 am	Coalition Wrap-up – Eric Alberts
	Other Announcements
	Next Meeting:
	Meeting Evaluation (e-survey following meeting)
11 am - Noon	Stress First Aid Training
	Patricia Watson, PhD
	National Center for PTSD

Participants: See attached participants

See attached PPTs for additional information on each presentation.

Welcome, Introductions and Announcement: Eric Alberts welcomed everyone and announced that the meeting is being recorded. He reviewed the meeting etiquette rules and asked that participants provide their names and organizations. Eric asked members to consider choosing the Central Florida Disaster Medical Team as a charity in the Amazon Smile program. When doing so, a small amount of each purchase is donated by Amazon to our team. In the first quarter of this program, the team received \$92. Eric welcomed Jim Judge, Volusia County Emergency Manager, back as a Board member, and welcomed Michael Adams as the new long-term care board member.

CFDMC Updates: Reginald Kornegay shared the CFDMC's accomplishments to date for 2022, and thanked the Executive Committee, Board, and all of the workgroups that made these possible. Reggie discussed the new two-year Coalition contract with the state and the work plan which focuses on continuing to build capabilities. Lynda D. W. G. Mason reviewed the budget for the next two years. Once the new contact is finalized, the workplan and budget will be posted to the website.

Radiation Injury Treatment Network (RITN): Eric presented on the RITN. The threats are real, and the federal government has stockpiled medications to respond to a radiation event in the SNS (Strategic National Stockpile). RITN is a collaborative effort lead by 74 hospitals across the nation with expertise in treating these injuries, including Orlando Health. He reviewed acute radiation syndrome (ARS) and injuries and movement of patients and referral guidelines. RITN provides training and exercise materials.

Hurricane Season Briefing: Kevin Rodriguez from the National Weather Service in Melbourne shared an overview of the NWS, and a briefing on the coming hurricane season. The forecast for 2022 is conditions are favorable with La Nina for an above normal season with 21 named storms, 6 hurricanes and 3 being major hurricanes. He noted that every storm and hurricane is different so all should have an extensive plan and be prepared to activate it. Eric thanked Kevin and stressed the need for preparedness.

Meeting Wrap-up: Eric reminded everyone of the importance of participating in the upcoming Everbridge communication drill this week. Eric advised the next meeting will be September 15. We are monitoring the Central COVID risk rating and will include a face-to-face component if the risk rating is low. Eric encouraged all to participate in the meeting evaluation which will be sent out electronically following the meeting.

Stress First Aid Training: Eric welcomed Dr Patricia Watson from the National Center for Post Traumatic Stress Disaster and Dr. Jim Shultz from the University of Miami DEEP Center. He thanked Dr. Shultz for finding and bringing this program to Florida and stated that it is much needed. Dr. Shultz stated that stress first aid has been in place for 15 years and fosters resiliency and recovery in high stress jobs. Dr. Watson presented the stress first aid for healthcare worker training. Lynne thanked Dr. Watson and Dr. Shultz for providing a SFA train-the-trainer program to 30 coalition representatives across Florida; this will enable us to continue to provide this training to the healthcare workforce.

Meeting Attendees:

Name	Organization	Member Type					
Aaron Kissler	DOH-Lake	Public Health					
Alan Harris	Seminole Emergency Management	Emergency Management					
	AdventHealth Central Division, Emergency						
Alexander Peterson	Management	Hospital					
Ana Scuteri	DOH	Public Health					
Ann Culley	NHC Home Care	Home Health					
Avi Bryan	City of Altamonte Springs	Emergency Management					
Beverly Cook	CFDMC						
	Florida Homecare						
Cecila Taracate	Specialists	Home Health					
Cheryl Modica	Sand Lake Surgery Center	Outpatient Healthcare					
Chief Chris Kammel	Martin EMS	EMS					
Chris Dorans	DOH-Volusia	Public Health					
	Cleveland Clinic-Martin-St.						
Christina Proulx	Lucie	Hospital					
Clint Sperber	DOH-St. Lucie	Public Health					
Deborah Collinge	DOH-Orange	Public Health					
Donna Walsh	DOH-Seminole	Public Health					
Dr. Peter Pappas	Health First	Hospital					
Dr. Vincent Hsu	Advent Health Orlando	Hospital					
Edward Bradley	DOH-Martin	Public Health					
Eric Alberts	Orlando Health Hospital						
Coorgionno Kirk	Florida Community Health	Outpatiant Haaltheare					
Georgianne Kirk Ihab Osman	Centers, Inc.	Outpatient Healthcare Public Health					
Jan Miller	DOH-Orange						
Jason Coons?	Halifax Health Hospice Atlantic Care Home Health	Skilled Nursing/LTC Home Health					
Jennifer Jensen							
Jennifer Mills	Orange County EMS DOH-Lake	EMS Public Health					
Jennier Mills							
Jim Judge	Volusia Emergency Management	Emergency Management					
Jun Junge	-	Emergency Management					
Jody Gregory	Orlando Health Bayfront Health	Hospital					
Jour Gregory		nospital					
Joey T	Treasure Coast Community Health	Outpatient Healthcare					
John Corfield	Orlando Health	Hospital					
Judy Head	Northland Church	Behavioral/Mental Health					
Kelley Jenkins	HCA Florida Lawnwood	Hospital					
	Health Council of East						
Ken Peach	Central Florida	Non-governmental					
Laura Burke	Kindred Hospital	Hospital					
Lea Collins		2 - 1					

Linda Dudley Loretta Goggin	Treasure Coast Urology Center FCRT	Outpatient Healthcare
	Orlando Health South Lake	
Lori Happe	Hospital	Hospital
Lydia Williams	DOH-St. Lucie	Public Health
Lynda D. W. G. Mason Lynne Drawdy	Northland Church CFDMC	Behavioral/Mental Health
Lynsey Collier-Graham	Oviedo Medical Center	Hospital
	AdventHealth Surgery	
Ma Minette Mangune	Center, Mills Park	Outpatient Healthcare
Marcie Carter	AZA Health	Outpatient Healthcare
Matt Meyers	CFDMC	
Michael Adams	Courtenay Springs Village	Skilled Nursing/LTC
Michelle Rud	HCA Florida Osceola	Hospital
Miles Butler	Orlando Health	Hospital
Molly Ferguson	Community Health Centers	Outpatient Healthcare
Nancy Handwerg	Universal Health Services	Behavioral/Mental Health
Rachel Reid	Orlando Health	Hospital
Rachel Shaull	Amadysis Home Health	Home Health
Rebecca Hale	Halifax Health Hospice	Skilled Nursing/LTC
Reginald Kornegay	Orlando VA	Hospital
Robert Feus	FDOH-Orange	Public Health
Shawn Treloar	Sanford Fire Department	EMS
	District 9/25 Medical	
Sheri Blanton	Examiner	Jurisdictional
Stephen Civitelli	DOH-Volusia	Public Health
Tim Finlan	Nemours	Hospital
Valerie Risher	DOH Special Needs Shelter	Public Health
Vianca McCluskey	DOH-Osceola	Public Health
Wayne Smith	Davita	Dialysis Center



Central Florida Disaster Medical Coalition (CFDMC) Member Meeting

June 16, 2022 – 9 am to Noon Note: Meeting is being recorded



- Please place your phone on mute when not speaking
- Don't place your phone on hold
- Use either computer audio and mic, or phone, not both – this can cause feedback noise
- Use the chat feature to raise issues or ask questions
- We may need to mute all lines. You can unmute yourself by clicking the

microphone icon



Eric Alberts, 2022 CFDMC Chair

- Welcome & Announcements Amazon smile program: <u>https://www.centralfladisaster.org/_files/ugd/8d7960_2ca353468e574155b20c9</u> <u>895487b4b5e.pdf</u>
- For those on webinar, please submit your name and organization in chat.
- For those on the phone, please email your name and organization to info@centralfladisaster.org

2022 Accomplishments to Date

Reginald Kornegay, Board Vice Chair



What We've Done Since January...

- Plans: New Crisis Standards of Care guidance; updated all regional plans. Thanks to all who provided input! These will be approved by the Board and posted to the website by the end of June.
- Trainings: Certified Emergency Healthcare Professional (CHEC) training, three Mental Health First Aid trainings, two NIMS trainings, two COOP workshops, sponsored statewide Stress First Aid train-the-trainer program, and participated in Region 5 Integrated Preparedness Planning Workshop
- Equipment: Provided decon package to two hospitals; replaced expiring equipment to keep all Region 5 hospitals at minimum readiness standards

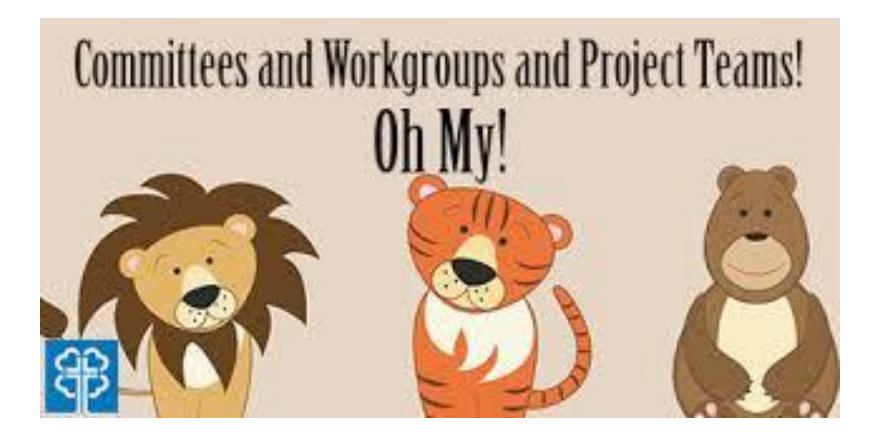
And...

Exercises:

- January Great Tornado Drill
- March FAC Response Team and Florida Crisis Response Team participated in the Daytona International Airport Exercise
- March AdventHealth East participated in the Florida Infectious Disease Transportation Network exercise
- April More than 200 organizations participated in the regional full-scale medical surge exercise. A special thanks to Rachel Reid and the Exercise Planning Team
- May Operation Generate Confidence Drill

Contract: Closing out 5-year contract on June 30 - all deliverables met!

Recognizing Those Who Make It Happen!



Executive Committee

Oversight of Coalition operations; meets bimonthly

- Eric Alberts, Board Chair
- Reggie Kornegay, Vice Chair
- Lynda D. W. G. Mason, Treasurer
- Clint Sperber, Health and Medical Co-Chair
- Lynne Drawdy, Executive Director

CFDMC Board

Responsible for strategic direction, budget, approval of all deliverables; meets bi-monthly

- Michael Adams (Brevard/Nursing Home)
- Sheri Blanton (Orange /Osceola Medical Examiner)
- Alan Harris (Seminole Emergency Manager)
- Dr. Vincent Hsu (Advent Health)
- Jim Judge (Volusia Emergency Manager)
- Georganna Kirk (Florida Community Health Centers)

- Aaron Kissler (DOH-Lake)
- Chief Chris Kammel (Martin Fire/Rescue)
- **Bob McPartlan** (DCF)
- Dr. Peter Pappas (Trauma Clinical Champion)
- Kenneth Peach (Health Council of East Central Florida)
- Christina Proulx (Cleveland Clinic/Martin Health)
- Chief William (Aaron) Rhodes (Orlando Fire Department)
- Susan Saleeb (CVS Pharmacy)
- Wayne Smith (Davita)

Communications Workgroup

- Planning & Implementation of Juvare pilot
- Lead by: John Wilgis, Florida Hospital Association & Matt Meyers, CFDMC
- Champions:
- Bill Litton, Emergency Management Daniel Ruth, EMS John Corfield, Hospitals Lydia Williams, Public Health
- Participants: Hospitals, EM, EMS, Public Health

Crisis Standards of Care Workgroup

Created new Crisis Standards of Care Guidelines

- John Corfield, Orlando Health
- Dr. Danielle DiCesare, Orange County EMS
- Kelley Jenkins, Lawnwood Regional Medical Center
- Salvatore Gintoli, SMA Healthcare
- Alexander Peterson, Orlando Health
- William A Rhode, Orlando Fire Rescues
- Michelle Rud, HCA Florida Osceola Hospital
- Jennifer Tomazinis, Kindred Hospital
- Matt Winter, AdventHealth Central Division

Emerging Infectious Disease (EID) Collaborative

- Completed 2nd COVID After Action Report; updated Infectious Disease Annex
- Champion: Dr. Vincent Hsu
- More than 90 individuals, including Hospitals, Emergency Management, ESF8, EMS, Public Health and other Coalition members (members are individually listed in the Annex)

Family Assistance Center Workgroup

- Participated in FAC Response at Daytona International Airport & Updated FAC Response Plan
- More than 40 members (listed in plan)
- Special thanks to:

Paula Bass	***	Sheri Blanton	***	Georgianne Cherry
John Corfield	***	Judy Head	***	Bill Litton
Matt Meyers	***	Christine Mouton	***	Dan Niederman
Beth Rossman	***	Lynda W.G. Mason	***	Matt Winter

Hospital Committee

- All Region 5 Hospitals
- Meets Monthly
- Purpose is to share information, address common concerns, share best practices, review & update minimum readiness standards

Mass Fatality Workgroup

- Reviewed & updated Mass Fatality Plan
- Finalizing MOUs among the region's medical examiners
- Chaired by Sheri Blanton

 Workgroup Members: Lindsey Bayer
 Karla Orozco
 Julie McLeod
 L. Carrol

Pediatric Workgroup

- Assessed regional pediatric capabilities, updated pediatric surge plan, participated in shelter planning for medically complex children, working on reunification of unaccompanied minors
- Chaired by Robin Ritola, Pediatric Champion
- Workgroup Members:

Eric Alberts	***	(
Jackie Hop	***	
Sven Normann	***	
Liz Todak	***	

Shane Friedman	***
Kelley Jenkins	***
Cat Sullivan	***
Beth Tucker	***

Jodie Gregory Jason Klein **Beth Tucker** Erica Westerholm

Regional Medical Assistance Team

- Provides medical surge capability. Training/exercises by supporting community events
- Commander: Nick Pachota
- More than 500 team members
- Events:

January – ACS at Disney Marathon February – First Aid Station at Hamcation February – Event strike team at Disney Princess Half Marathon

May – Event strike team at Boy Scout Camp

Regional Trauma Advisory Board

• Lead by Dr. Peter Pappas, Executive Director

- Executive Committee (11 members, co-chaired by a trauma center and an EMS agency, with trauma centers, EMS, acute care hospital, public health; focus on coordination and sharing of information to improve the trauma system)
- Clinical Leadership Committee (Chaired by Dr. John McPherson, with Trauma and EMS Medical Directors; coordinates regional trauma guidelines)
- System Support Committee (Chaired by Tina Wallace, with Injury Prevention stakeholders, shares injury prevention best practices, resources)
- Preparedness Committee (chaired by Eric Alberts, responsible for Regional Trauma Coordination Center plan and exercise. Special thanks to Dr. Tracy Bilski for her leadership in the RTCC plan and exercise)
- Whole Blood Committee (chaired by Chief Kammel, developed implementation guidelines for use of whole blood on ambulances)

2022-2024 Work Plan

Clint Sperber, RDSTF Health and Medical Co-Chair, St. Lucie County Health Officer, CFDMC Executive Committee & Board Member

- New Two-Year Contract effective July 1
- Draft Work Plan approved by Board
- Work plan Continues Building Regional Capabilities
- New Projects Include: Coalition Sustainability Report, Regional Healthcare Resource Assessment, Chemical and Radiation Surge Annexes, and Chemical, Radiation, Pediatric and Crisis Standards of Care exercises. A new project for our coalition this year is the addition of emergency operations plan (EOP) training and software for our member organizations. We are also preparing for new RMAT warehouse this year

2022-2024 Budget

Lynda D. W.G. Mason, Board Treasurer

- Annual Budget for Next 2 Years: \$1,113,562 (an increase of \$109,000 annually)
- Personnel: \$164,753
- Travel: \$41,000
- Equipment: \$90,000
- Supplies: \$481,714
- Other: \$336,095

2022 Hurricane Season Briefing

Kevin Rodriguez, National Weather Service, Melbourne



Radiation Injury Treatment Network® Eric Alberts





- Questions?
- Other Announcements
- Next Meeting: September 15
- Reminder Please Respond to This Week's Everbridge Drill
- Meeting Evaluation (e-survey following meeting)

Stress First Aid for Healthcare Workers

Dr. Patricia Watson, National Center for PTSD Dr. Jim Shultz, University of Miami DEEP Center





-Fortuna Favet Paratis-

est. 2006

Radiation Injury Treatment Network®

Eric Alberts

Refer to notes for talking points and draft script.

As of February 2022

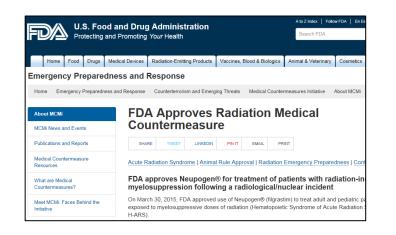
Why Everyone Should Care

- Government Is Not Taking the Threat Lightly
- FDA Approves for treatment of ARS
 - Filgrastim (March 2015)
 - Pegfilgrastim (Nov 2015)
 - Sargramostim (March 2018)
 - Romiplostim (January 2021)



On March 29, 2018, the FDA approved use of Leukine (sargramostim) to increase survival in adult and pediatric patients acutely exposed to myelosuppressive doses of radiation (Hematopoietic Syndrome of Acute Radiation Syndrome, or H-ARS).

• These drugs being added to Strategic National Stockpile for a disaster









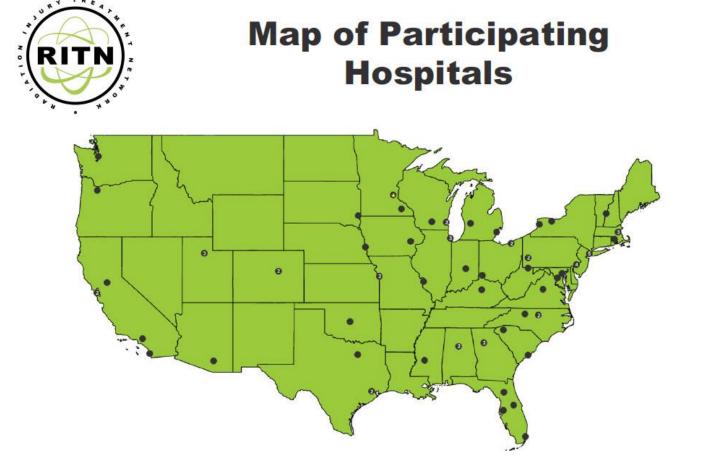
- What is RITN?
- What is RITN preparing for?
- How RITN fits into the response
- Casualty Profile & Care
- Preparedness Initiatives
- Resources



What is RITN?



What is RITN? And why create it?



74 medical centers with expertise in the management of bone marrow failure

Legend

- RITN Hospital (# indicates mulitple hospitals in the region)
- RITN Control Cell



Why Cancer Centers?

- Bone marrow is a the most sensitive organ in the body to ionizing radiation
- Doses >2 Gy** of ionizing radiation can cause Acute Radiation Syndrome (ARS)
- ARS mimics what BMT/hematology/oncology staff see daily while treating patients with blood cancers
- Through cancer treatment process patients are irradiated or given chemotherapy to destroy their immune system (marrow)
- Failure to restore would result in death



Image Source: NCI <u>https://www.cancer.gov/about-</u> <u>cancer/treatment/types/radiation-therapy/radiation-fact-sheet</u> accessed 11/29/16

**Chest CT = 7 mSv : ~0.007 Gy == 2 Gy ~286 chest CTs
** PET/CT = 25 mSv : ~0.025 Gy == 2 Gy ~ 80 PET/CTs



Radiation Injury Treatment Network

	Transplant Centers	Add. (Pedatic	Traume Center	Bun Certer	NDMS Hospital	ł	Transplant Centers (cont.)	Add / Pedatic	Bun Certer	NONS Hopked HPP Hostel		Transplant Centers (cont.)	Addl: / Podiatio	Traumo Center	Burn Center	NONS Hopfel
AL	Children's Hospital of Alabama		T1		• •	-	A Dana Farber/Partners Cancer Care	P/A	Π	• •	0	H University Hospitals Seldman Cancer Center	PIA			• •
AL	University of Alabama at Birmingham	P/A	T1	•	• •		A Massachusetts General Hospital	A T1		• •	0	K Oklahoma Univ. Medical Center & Childrens Hosp.	PVA			
AZ	Banner University Medical Center	PIA	T1	•			D University of Maryland	A T1		•	0	R Oregon Health & Science University	P/A	T1		• •
CA	City of Hope National Medical Center	P/A	4	(I'			I Barbara Ann Karmanos Cancer Center	A			P	A AHN Cancer Institute West Penn Hospital	A	1000	•	• •
CA	Scripps Green Hospital	A					II Spectrum Health	P/A T1			P	A Children's Hospital of Philadelphia	P	T1		• •
CA	Stanford Health Care	P	T1			1	N Mayo Clinic Rochester	P/A T1			P	A Temple University	A	T1		• •
CA	UC Davis	A	T1	•		. 1	N University of Minnesota BMT Program	P/A T2			P	A Thomas Jefferson University Hospital	A	T1		• •
CA	UCSF Medical Center	P/A				1	O Barnes-Jewish Hospital at Washington	A T1			P	A University of Pennsylvania Medical Center	A	T1		• •
CO	Presbyterian/St. Lukes Medical Center	A	T4			. 1	O The Children's Mercy Hospital	P T1			P	A UPMC	A	T1		-
CO	University of Colorado (Aurora)	A	T1	•			S University of Mississippi Medical Center	P/A T1			R	I Roger Williams Medical Center	A	1000	17	
DC	Medstar Georgetown University Hospital	A					C Duke University Medical Center	P/A T1			S	C Greenville Health System	A	T1		
FL	H. Lee Mottitt Cancer Center	PIA			•		C UNC Hospitals	P/A T1			S	C Medical University of South Carolina	P/A	T1		9
FL	Shands Hospital at the University of Florida	PIA	T1	•			C Wake Forest Baptist Hospital	A T1			S	D Avera McKennan Transplant Institute	A	T2		
FL	U of Mlami/Sylvester Comprehensive Cancer Ctr	A					E Nebraska Medicine	P/A T1			1000	X Baylor University Medical Center	A	T1		•
FL	Orlando Regional Medical Center (ORMC)	A	T1	•			H Dartmouth-Hitchcock Medical Center	A T1				X M.D. Anderson Cancer Center	P/A			
GA	Emory University	A		(****	1.		Y Memorial Sloan-Kettering Cancer Center	P/A	11		T	X Texas Children's Hospital	P	T1		
GA	Northside Hospital	A	1.1	6 L			Y Mount Sinal Hospital	P/A T2				T LDS Hospital	A			
IA	University of Iowa Hospitals and Clinics	P/A	TI	•			Y North Shore Medical Center	A TI				T Primary Children's Hospital	P	T1		• •
HL.	Northwestern Memorial Hopsital	A	TI				Y NYU Langone Health	A	100			T University of Utah	A	TI		
11	Rush University Medical Center	A					Y Roswell Park Cancer Institute	P/A				A University of Virginia	A	TI		
11	University of Chicago	PIA	11	•			Y Strong Memorial Hospital	P/A T1				A Seattle Cancer Care Allance	P/A	1000		31 8
IN	Franciscan Hospital and Health Centers	A	11				Y Westchester Medical Center	P/A T1			V	I Children's Hosp of WI & Midwest Children's CC	P	TI		
KS	University of Kansas Medical Center	A	T1	•			H Cincinnati Children's Hospital Medical Center	P T1				/I Froedtert Memorial Lutheran Hospital	A	T1		
KY	University of Kentucky	A	T1	<u> </u>			H Cleveland Clinic Foundation	P/A			1.	/I University Hospital (Madison)	P/A	TI		
MA		P						15 15	10.00	20		V West Virginia University Hospitals	A	TI		



A = Adult capable facility

8 - Burn center

T = Trauma capable facility (# denotes designation)

Total number of RITN centers	74	
Total Pediatric or Ped/Adult	38	51%
Total Trauma Centers	\$3	72%
Total Burn Centers	27	36%
Total NDMS Centers	68	78%
Total NPP Centers	66	89%





"please report any connections to this document to R/Trighmidp.org As of January 2022

Federal Plans Involving the RITN

- White House: Planning Guidance for Response to a Nuclear Detonation
- FEMA: Nuclear/Radiological Incident Annex
- ASPR: Radiological Dispersal Device Playbook
- ASPR: Rad/Nuke Annex to All Hazards Plan
- ASPR: State & Local Planners Playbook for Medical Response to a Nuclear Detonation
- ASPR: Medical Planning and Response Manual for a Nuclear Detonation Incident
- NLM: REMM-RITN Prototype for Adult & Pediatric Medical Orders During a Radiation Incident











Concept of Operations.... ConOps

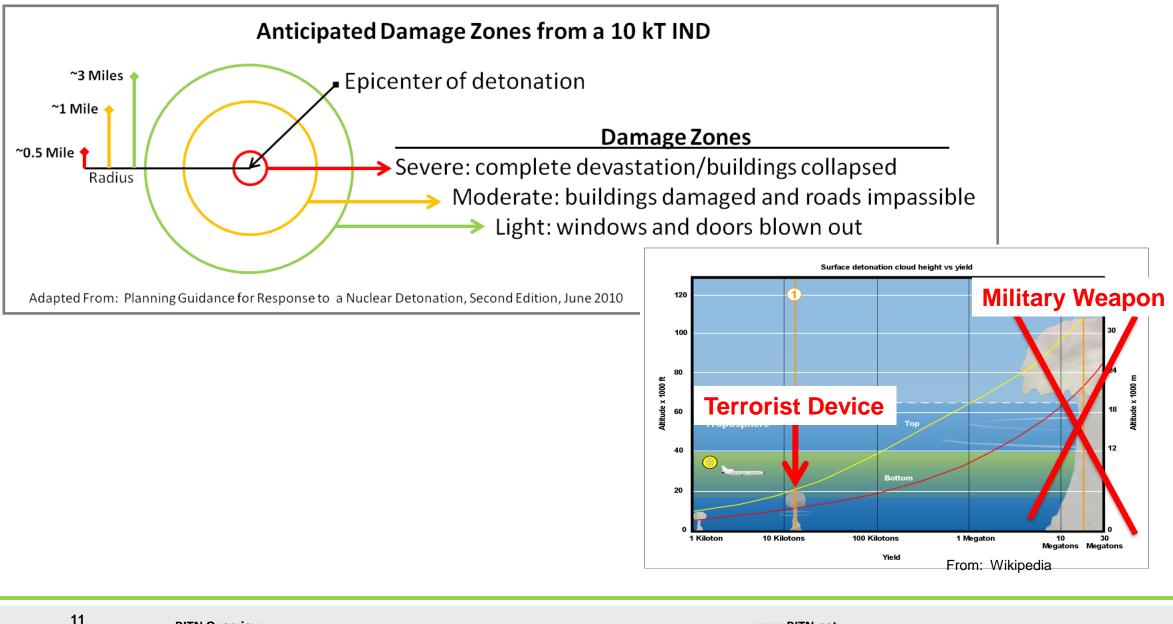




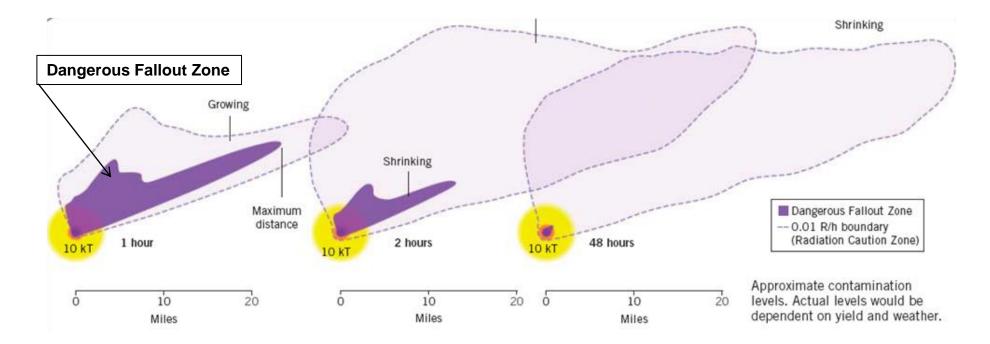
Wikipedia, June 2011



Damage will not be as Catastrophic as a Military Nuclear Weapon



Fallout May Cause the Most Radiation Injuries



The dose in the Dangerous Fallout zone could cause marrow injury
Sheltering-in-place is key to reducing dose, as the hazard dissipates relatively quickly

Illustration from: Knebel AR, Coleman CN, Cliffer KD; et al. Allocation of scarce resources after a nuclear detonation: setting the context. Disaster Med Public Health Prep. 2011;5 (Suppl 1):S20-S31



ARS Casualties from 10kT IND

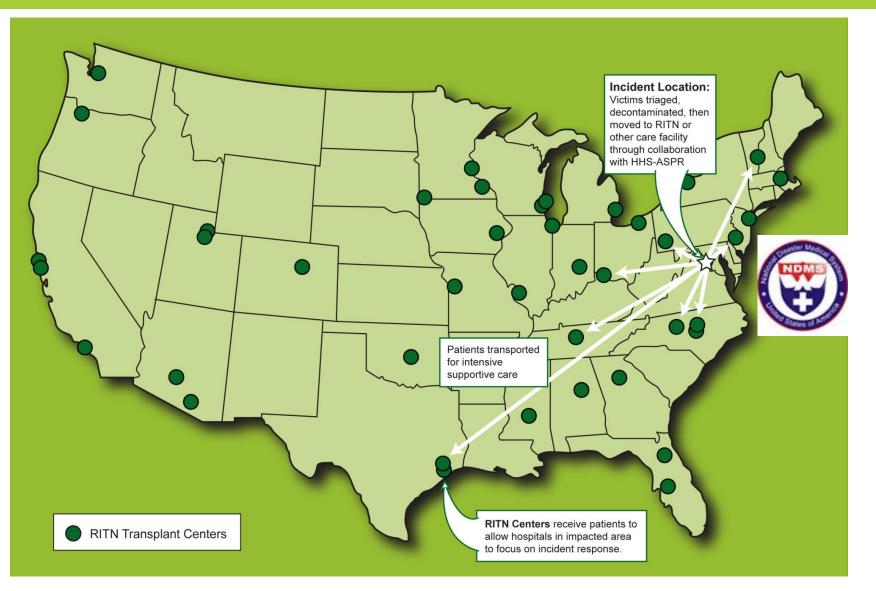
Table adapted from: Knebel AR, Coleman CN, Cliffer KD; et al. Allocation of scarce resources after a nuclear detonation: setting the context. Disaster Med Public Health Prep. 2011;5 (Suppl 1):S20-S31

Radiation Dose (Gy)	Care Requirement	Casualty Estimate	
Mild (0.75-1.5)	Self Recover and Monitoring	91,000	Estimate of 63,000 casualties for RITN
Moderate (1.5-5.3)	Outpatient Monitoring And Specialized Supportive Care	51,000	
Severe (5.3-8.3)	Specialized Supportive Care and Possible Transplant	12,000	
Expectant (>8.3)	Comfort Care	47,000	
Combined Injury and Radiation (>1.5)	Stabilization and monitoring, pending resource availability	44,000	

It is not the Cold War.... Nor is it a futile effort

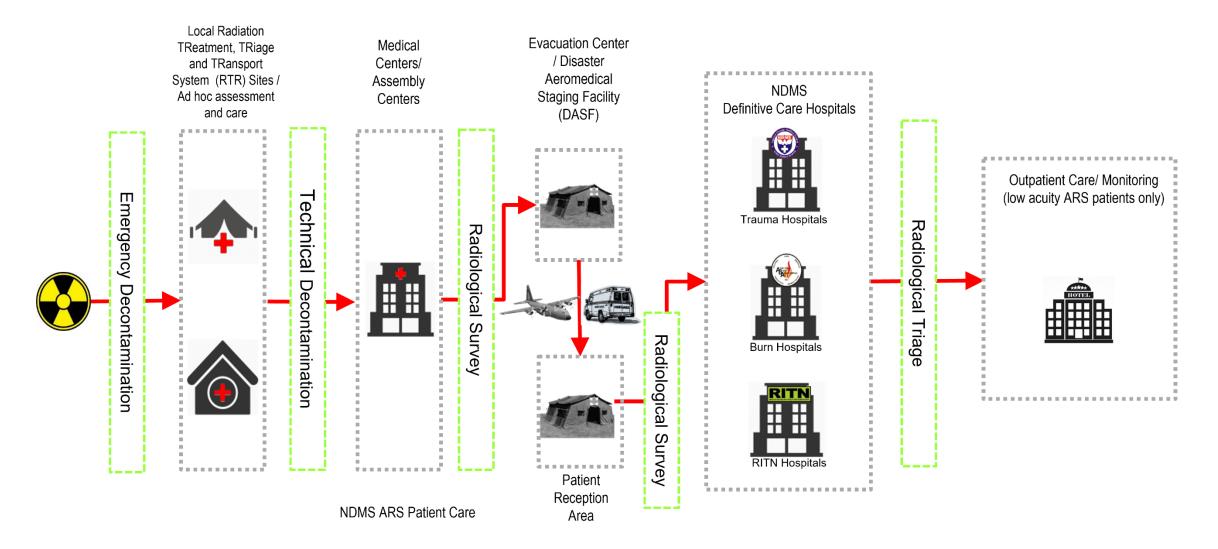


Movement of patients through NDMS





ARS Patient Movement

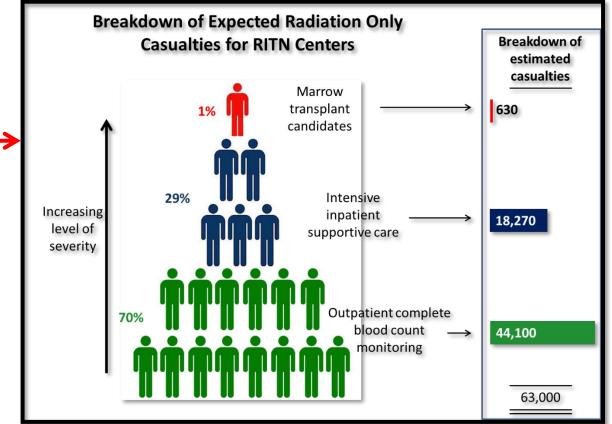




ARS Patient Profile

Total IND Casualties

Expected Patient Care Requirements for RITN Patients



Casualty Estimates adapted from: Knebel AR, Coleman CN, Cliffer KD; et al. Allocation of scarce resources after a nuclear detonation: setting the context. Disaster Med Public Health Prep. 2011;5 (Suppl 1):S20-S31



90% of casualties

will have trauma or combined injuries and receive treatment elsewhere

Approximately 10% will have radiation only (ARS) injuries and be sent to RITN centers for definitive medical care

RITN ARS Treatment Guidelines full guidelines @ www.RITN.net/treatment

- Follow standard approaches for patients with bone marrow toxicity from chemotherapy
- Based on severity of cytopenias and presence of complications (e.g. neutropenic fever)
 - Irradiated, leukoreduced transfusions
 - Antibiotics
 - IV fluid and other support
 - G-CSF

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Hospitalization when indicated

• Daily CBCs to determine clinical need for treatment

• Biodosimetry

- Using online algorithms (REMM & BAT)
- Blood counts (before and after arrival at RITN centers)
- Geographic dosimetry
- Opportunity to apply new biodosimetry approaches



Only a small percentage would benefit from a transplant



Accomplishments &

Resources



RITN Preparedness Efforts.... Exercises, Training and More....

Since 2006





19,716 medical staff trained

***Free web-based courses available on RITN.net



Doses on-hand 16,700+ G-CSF & 1100+ GM-CSF doses 1600+ Romiplostim doses

***Fluctuates throughout year, is sum of inventory at each RITN hospital



7,388 Adult & 2,425 ped ARS beds w/in 24 hrs *** as of February 2022



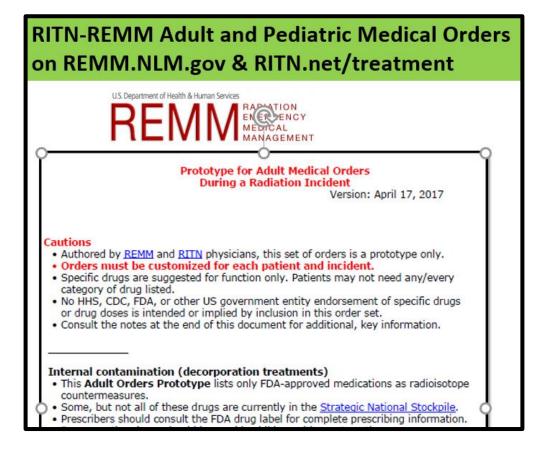
74 hospitals and cancer centers



Accomplishments

- Medical Guidance <u>www.RITN.net/treatment</u>
 - ARS Treatment Guidelines
 - Referral Guidelines
 - Adult and Pediatric Medical Orders in collaboration with REMM
- Training <u>www.RITN.net/training</u>
 - Mobile REAC/TS course
 - ARS Medical Grandrounds training
 - Web based training courses (basic radiation, ConOps, etc...)
 - Non-medical Radiation Awareness Course Adopted by NNSA for USAID staff
- Operations

- Exercises
- Web based data collection for ARS patients
- RITN hospital "bed report +" integrated into GEO Health





Adult & Pediatric Medical Orders on REMM.NLM.gov & RITN.net/treatment





Treatment Guidelines on RITN.net/treatment



RITN Acute Radiation Syndrome Treatment Guidelines

October 2020

Decision to perform HLA typing and recruitment of a donor

Factors favoring HLA typing*

- Estimated whole body dose > 3 Gy
- Neutrophil count < 100/µl by day 6
- Rapid drop of platelets
- Expected to survive other injuries

Expedited HLA typing will be available using buccal swab, with high resolution DNA typing of HLA-A, -B, -C, -DRB1, and -DQB1

*Guidance for obtaining HLA-typing can be obtained by contacting the NMDP or the closest RITN center:

- NMDP HLA-typing guidance: 1 (800) MARROW2 or (612) 627-5800
- For an updated map and list of RITN centers: <u>http://www.ritn.net/About/</u>
- RITN Participating Centers General Contact Directory: <u>http://www.ritn.net/Contact/</u>

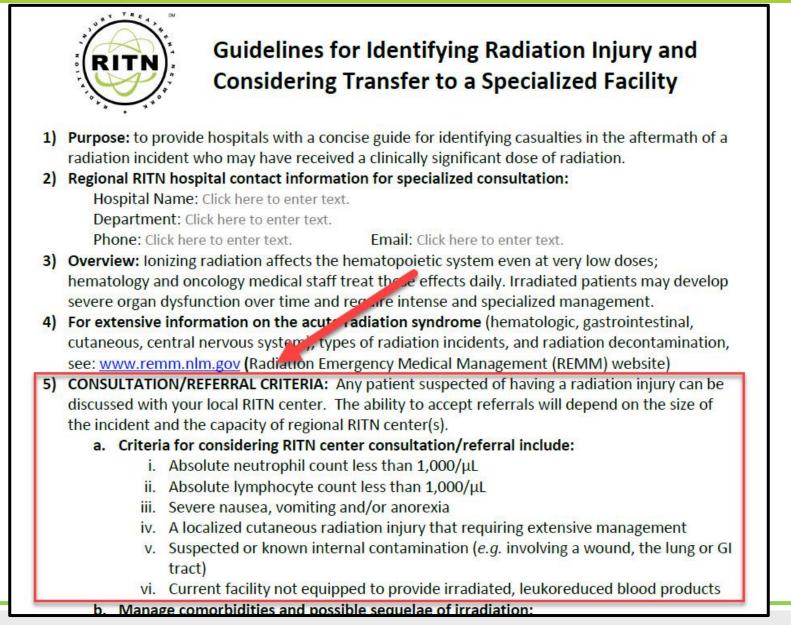
Principles of ARS management at RITN centers	Page 2
Crisis standards after a nuclear detonation	Page 5
Acute Radiation Syndrome (ARS)	Page 9
Casualty triage after a nuclear detonation	Page 11
ARS management	Page 23
Stem cell support: when to HLA type casualties	Page 25
Additional Resources	Page 28

Decision to recruit a donor for evaluation

- If patient remains aplastic for >14 days
- Suitable donor is available:
 - 8/8 match (HLA-A, B-C, DRB1) using bone marrow or PBSCs
 - Alternatives, if a matched donor is unavailable:
 - At least 4/6 matched umbilical cord blood of adequate cell number (potentially 2 cord blood units for adults, 1 cord blood unit for children)
 - Haploidentical donor who has not had radiation exposure
 - Mismatched, related or unrelated donor with T-cell depletion



Referral Guidelines: www.RITN.net/triage





Training: Medical Grand Rounds on RITN.net/training



Medical Response to Radiation Exposure: the Role of Hematologists

Agenda

- Radiation Injury Treatment Network
- Radiological Event Scenarios
- Radiation Biology
- Dosimetry
- Acute Radiation Syndrome
- Mitigation and Treatment
- Available resources



Web Based Training on RITN.net/training

(FREE TRAINING)

- Web based training
 - Intro to RITN
 - Basic Radiation Training
 - RITN Concept of Operations
 - Radiation Safety Communication
 - GETS Card 101
 - Non-Medical Radiation Awareness Training (ESL)

Adopted by NNSA for USAID training

• Medical Grand Rounds training



Exercise Materials on RITN.net/exercises

- Tabletop SITMANs (16 years of exercises and results)
- Regional Tabletop and Full-scale exercise materials
- Data from exercises
- AARs

Big Rad Apple 10 Kiloton Nuclear Explosion Regional Radiation Injury Treatment Network Tabletop Exerci

June 23, 2014

AFTER ACTION REPORT/IMPROVEMENT PLAN

FINAL DRAFT – August 21, 2014







After-Action Report/Improvement Plan August 2013



- 2012 RITN Tabletop exercise scenario and questions (PDF)
- 2013 RITN Tabletop exercise scenario and questions (PDF)
 2013 RITN TTX Executive Summary (PDF)
- 2014 RITN Tabletop exercise scenario and questions (<u>PDF</u>)
 2014 RITN TTX Executive Summary (<u>PDF</u>)

Full-Scale Exercises (FSX)

*NOTE: All RITN center full-scale exercises are HSEEP c are not an 'exercise-in-a-box.' Due diligence is required to materials pertinent to the user. The exercises are posted f institutions for better preparedness. We only ask that RITN used.

- 2012 Memorial Sloan Kettering Cancer Care
 <u>Controller/Evaluator Handbook</u>
 - Exercise Concept of Operations
 - Exercise Plan Draft
 - Master Inject Form
 - Player Guide
 - Victim Card Blank

 - <u>Evaluation</u>
 - <u>Exercise Plan</u>
 - ♦ MSEL
 - Player Information
- 2014 Dana Farber Cancer Institute
 - <u>Clinician Playbook</u>
 - Exercise Plan
 - After Action Report (AAR)
- nal TTX

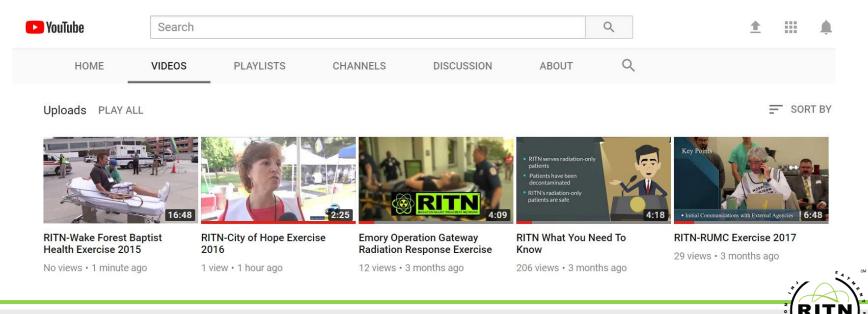


RITN YouTube Channel https://www.youtube.com/watch?v=v-qW-z7qXRw

 RITN What You Need to Know (<u>Video</u>): 4 min overview video



- Exercise videos
- Just-in-Time Training videos



Resources

www.RITN.net

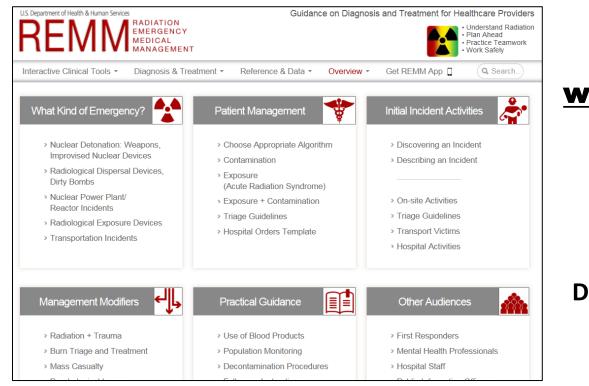


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OPEN

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Manage

Incident Orie

Exposure:

Diagnose/N

Radiation S

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Resources continued

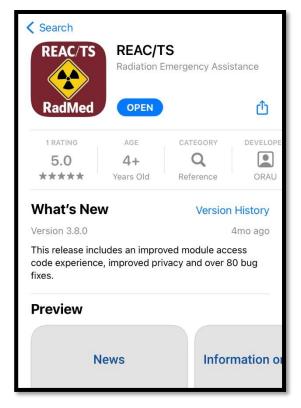
Radiation Emergency Assistance Center/ Training Site (REAC/TS)

www. https://orise.orau.gov/reacts/index.html





Downloadable from Google Play or the App Store

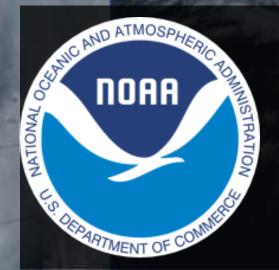




Critical to Success

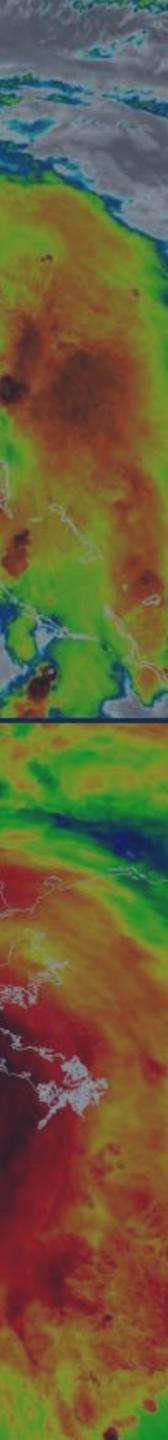


2022 Hurricane Season Outlook Central Florida Disaster Medical Coalition



Kevin Rodriguez Meteorologist kevin.rodriguez@noaa.gov National Weather Service – Melbourne, FL





National Weather Service Melbourne Weather Forecast Office (WFO)



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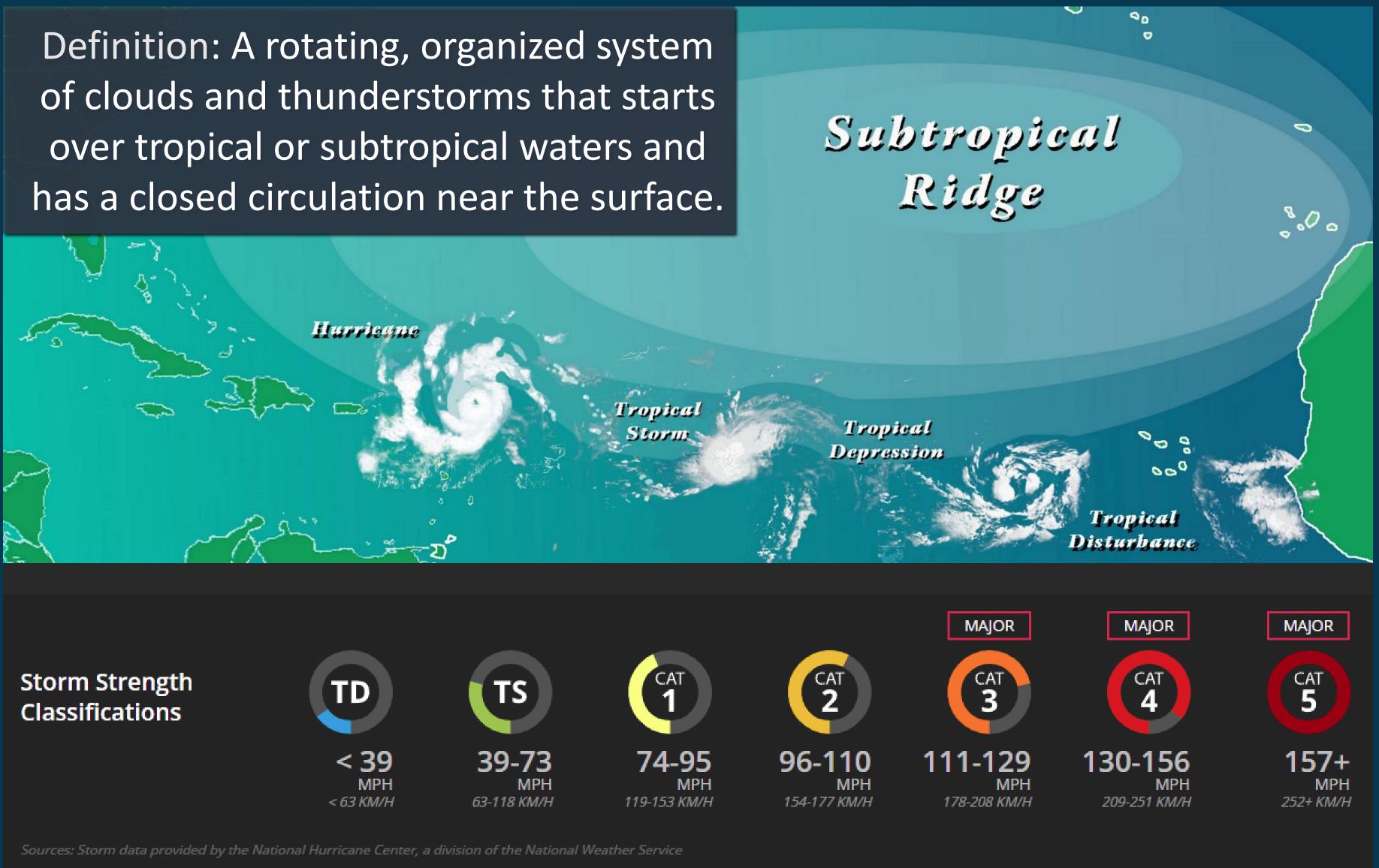


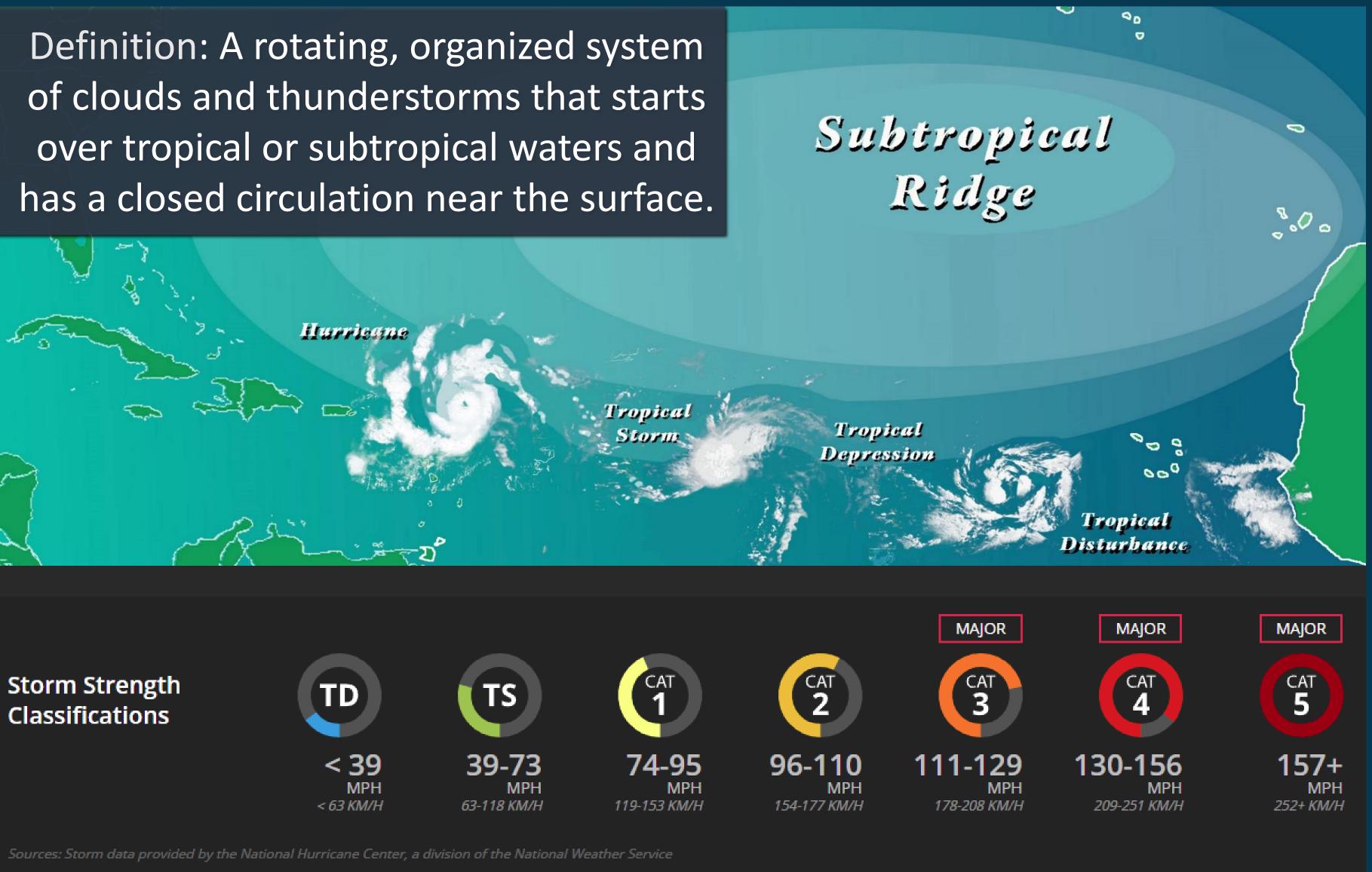






Tropical Cyclones Basics & Classifications





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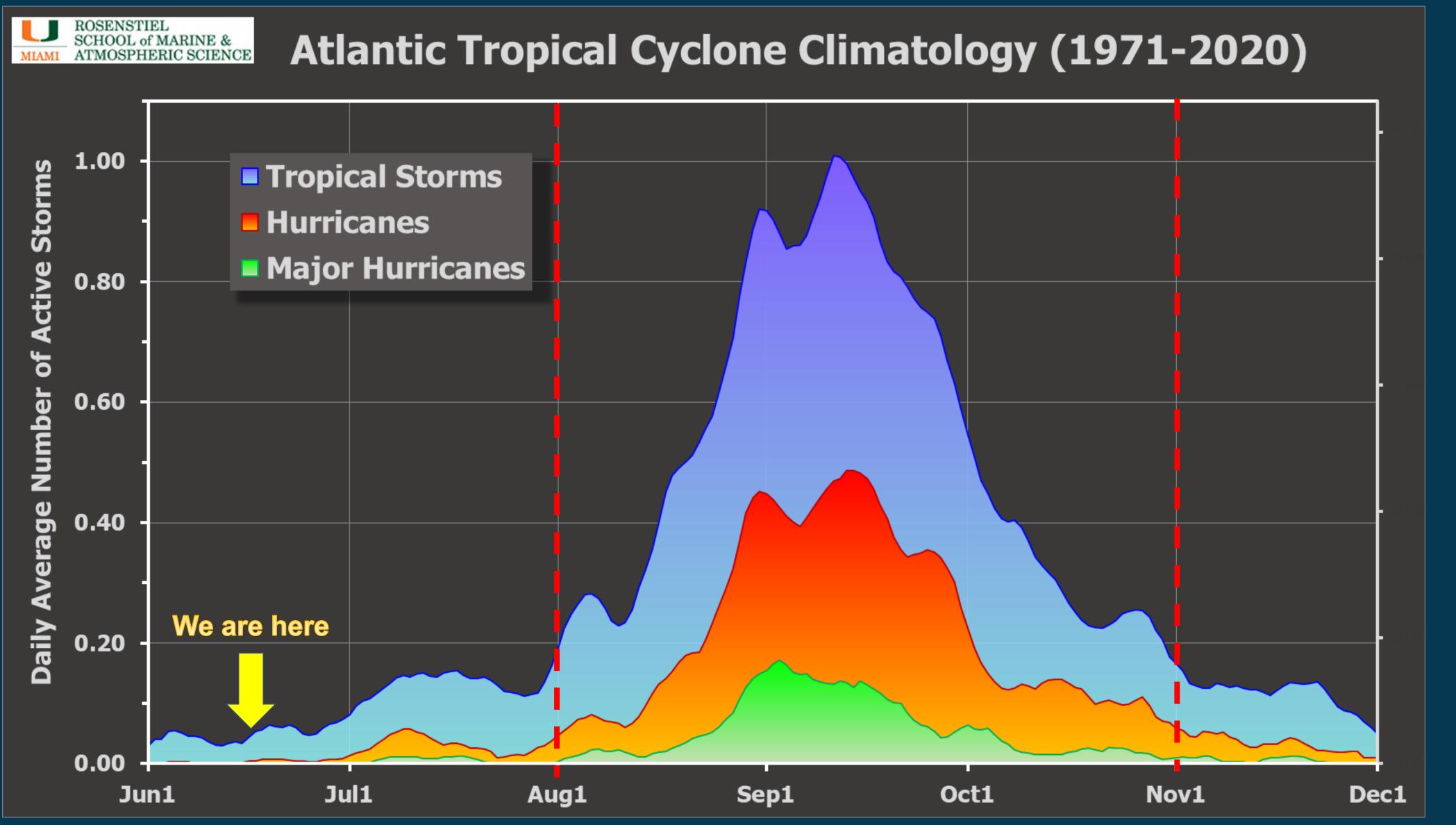
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Hurricane Season Why June 1st to November 30th?



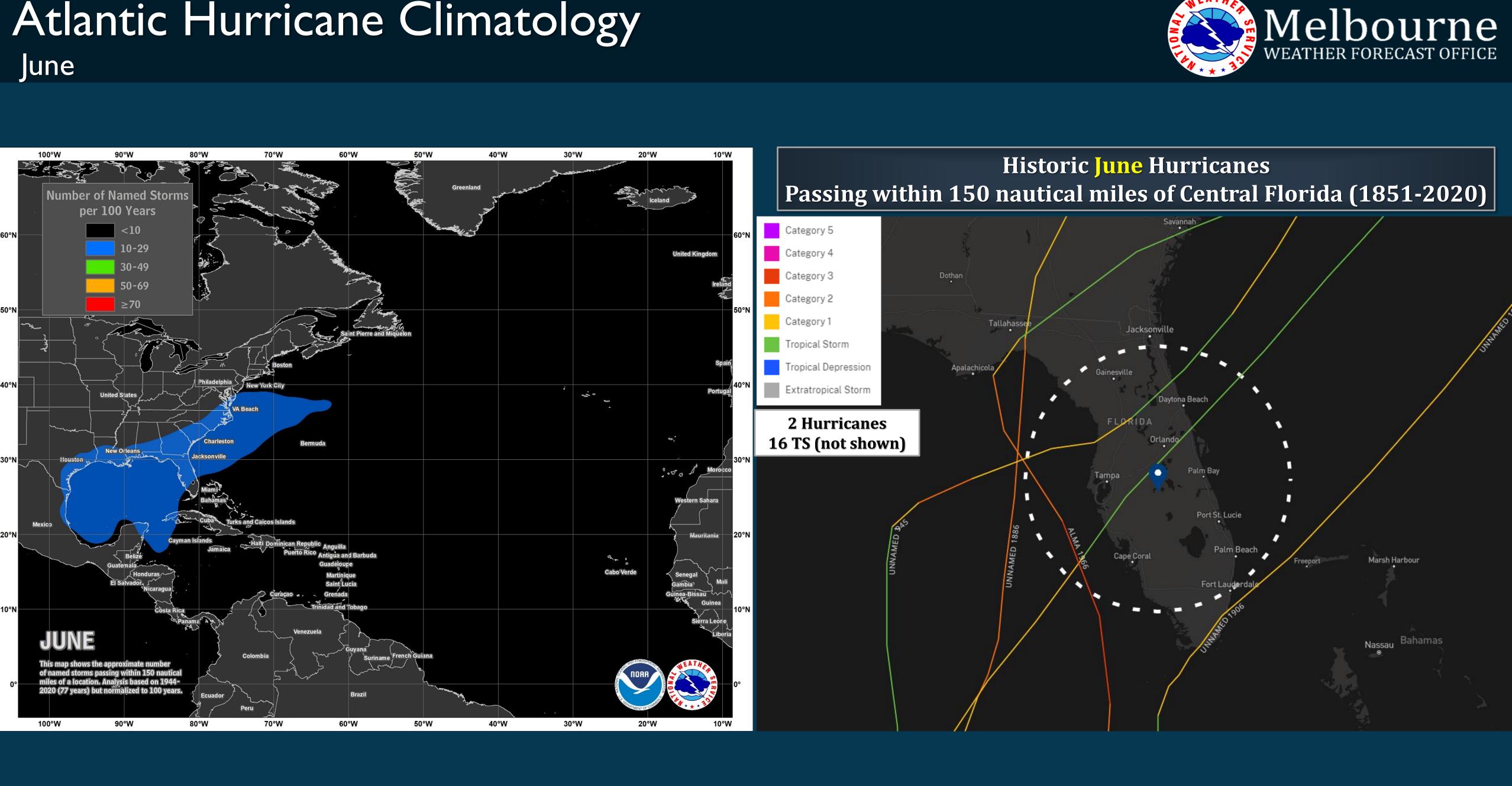
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Atlantic Hurricane Climatology June



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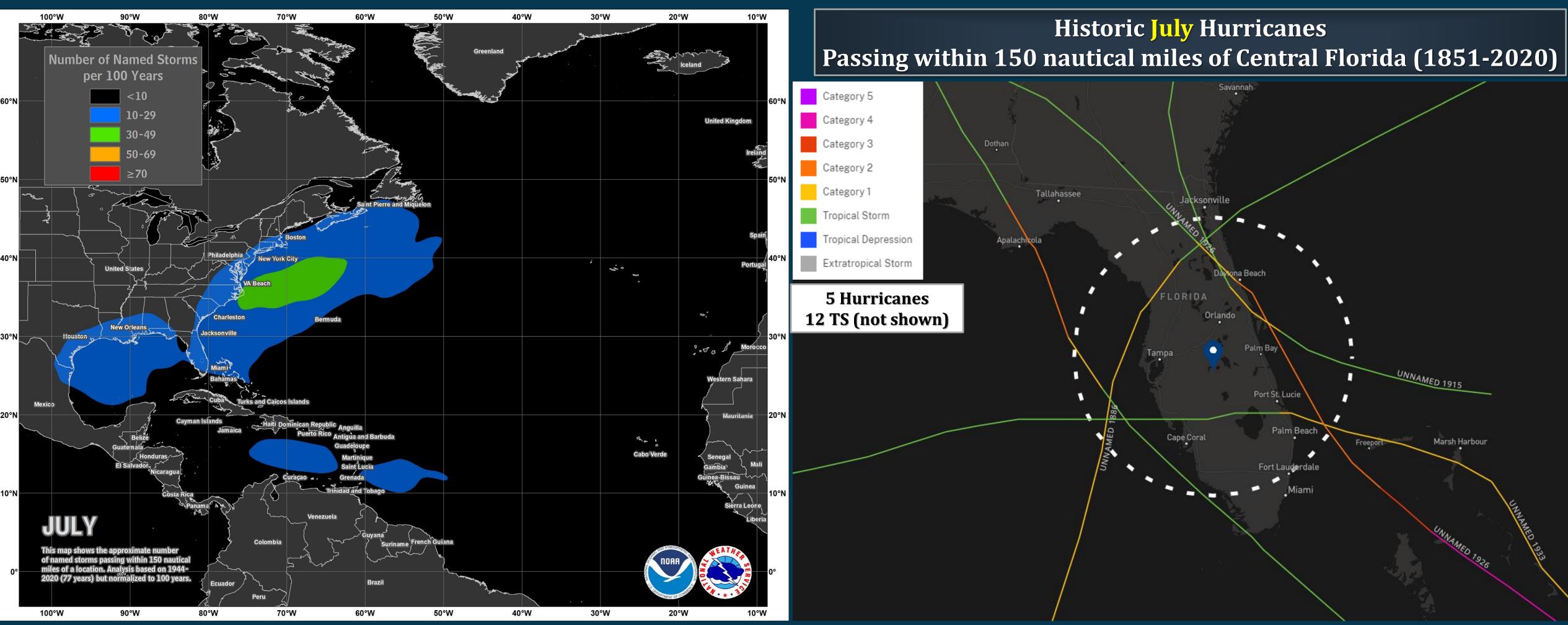








Atlantic Hurricane Climatology July



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weather.gov/melbourne

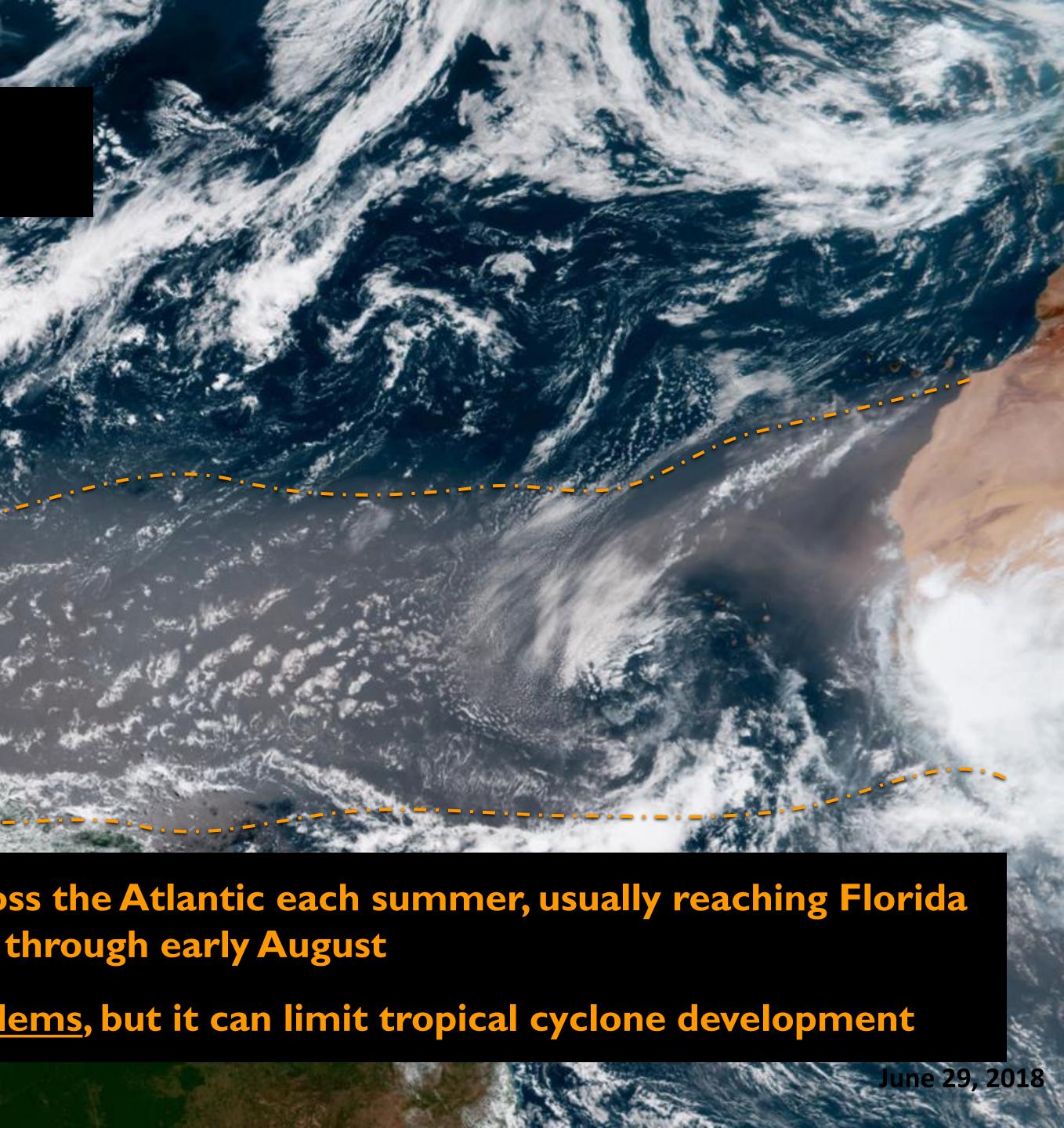




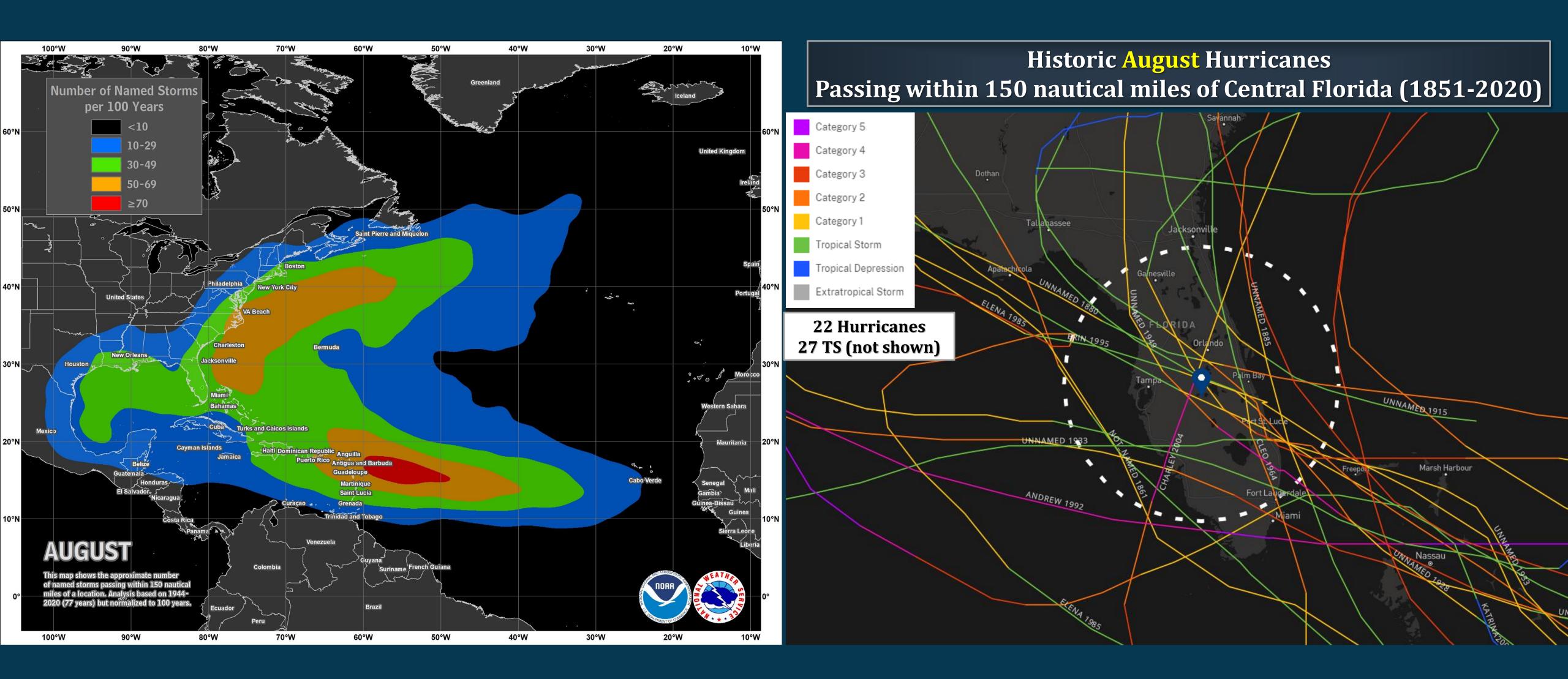
Role of Saharan Dust

Dust from the Saharan Desert travels across the Atlantic each summer, usually reaching Florida from June through early August

Not only can this cause <u>air quality problems</u>, but it can limit tropical cyclone development



Atlantic Hurricane Climatology August



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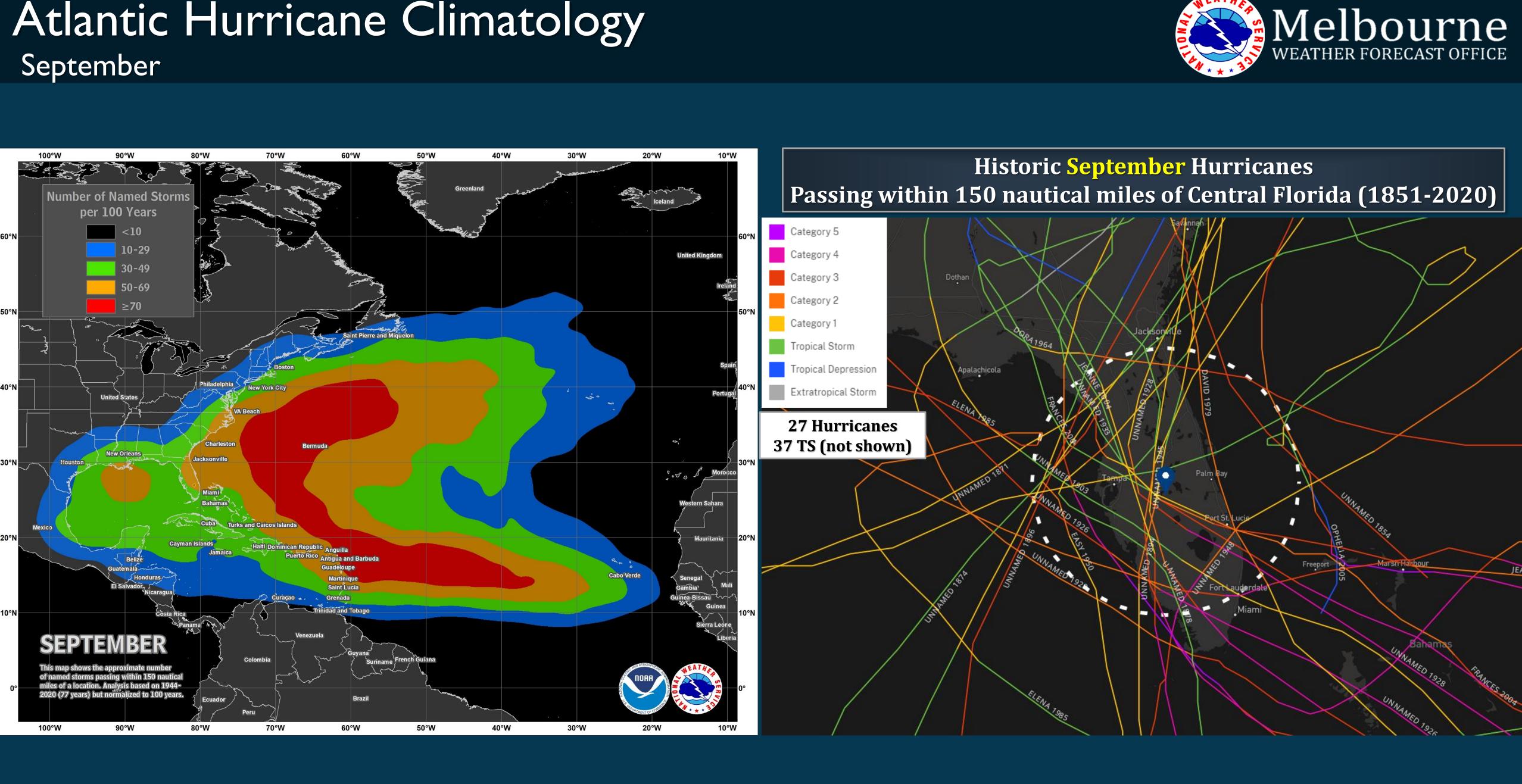








Atlantic Hurricane Climatology September



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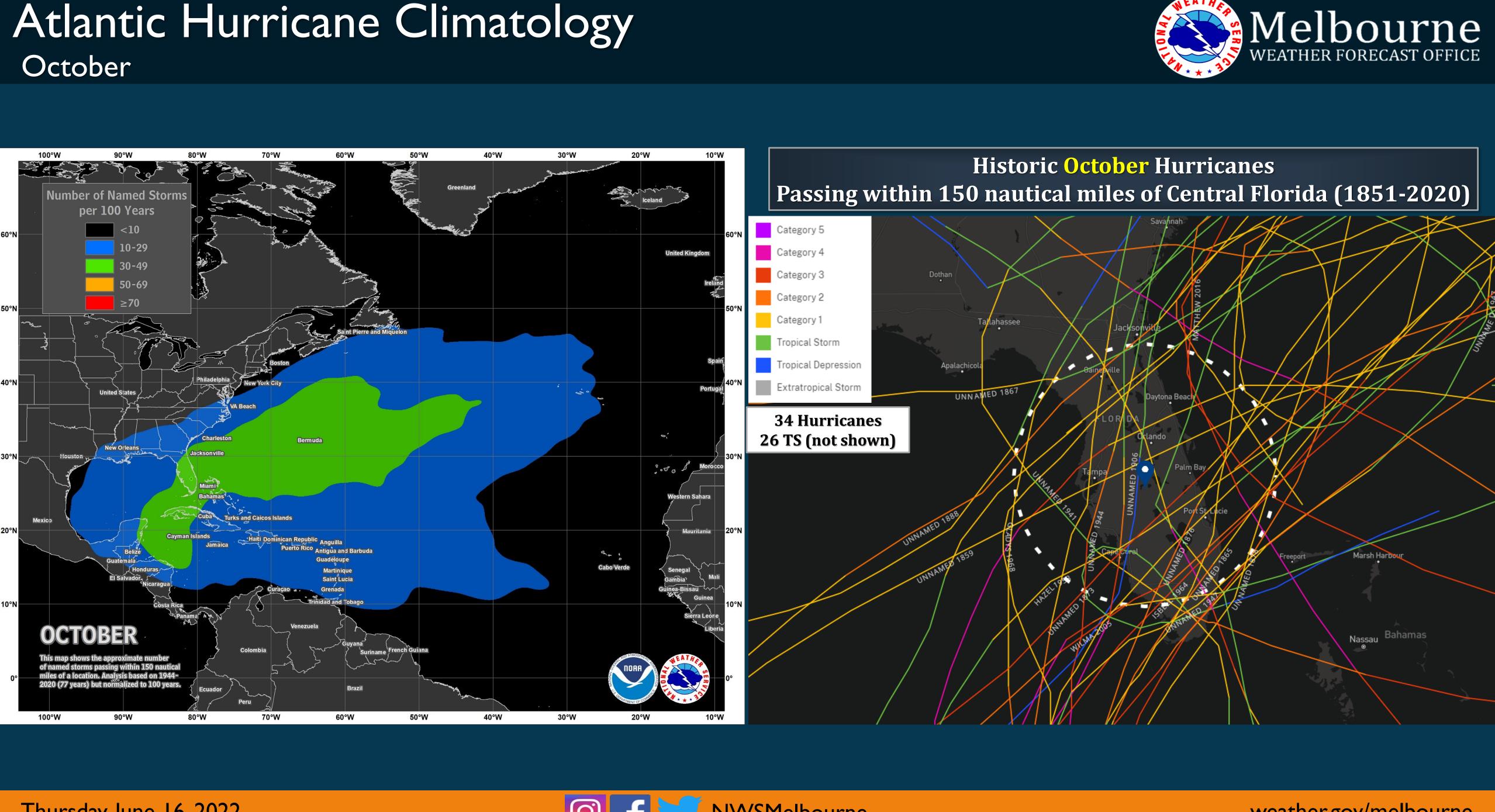








Atlantic Hurricane Climatology October



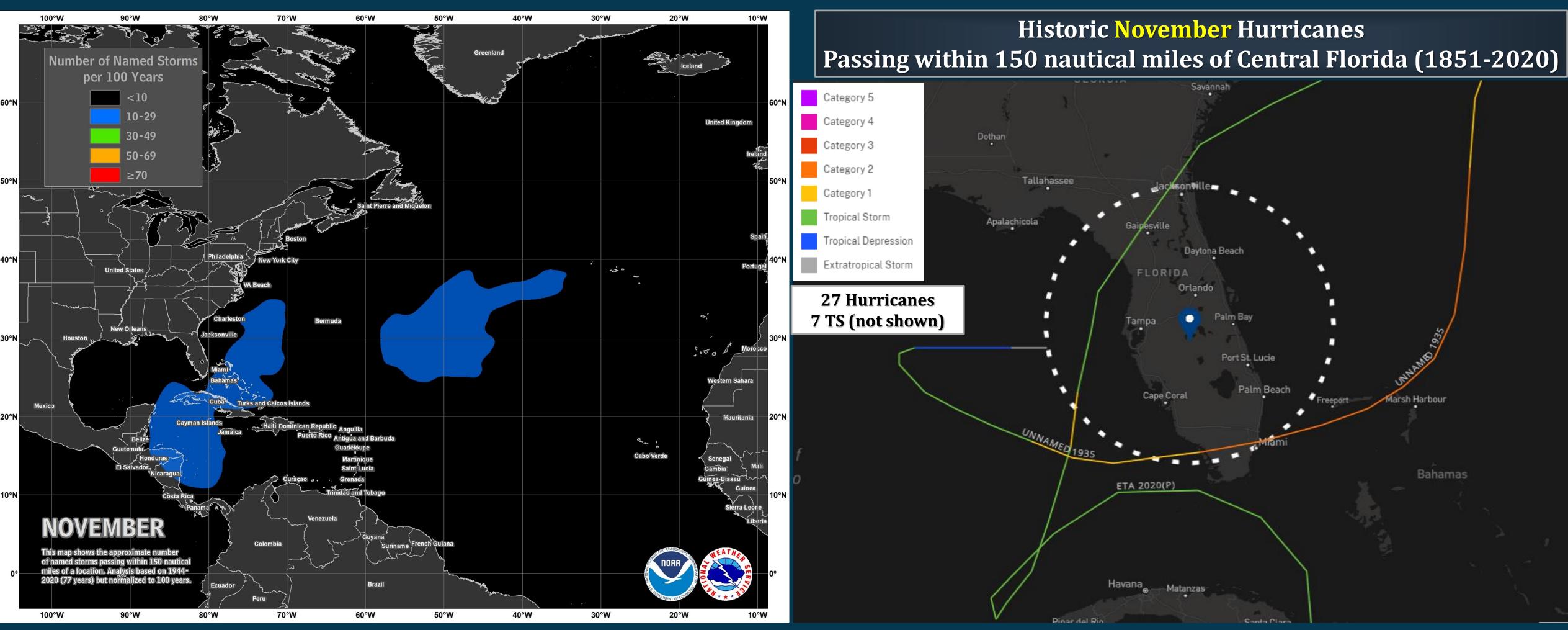
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Atlantic Hurricane Climatology November

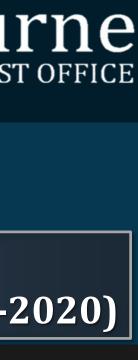


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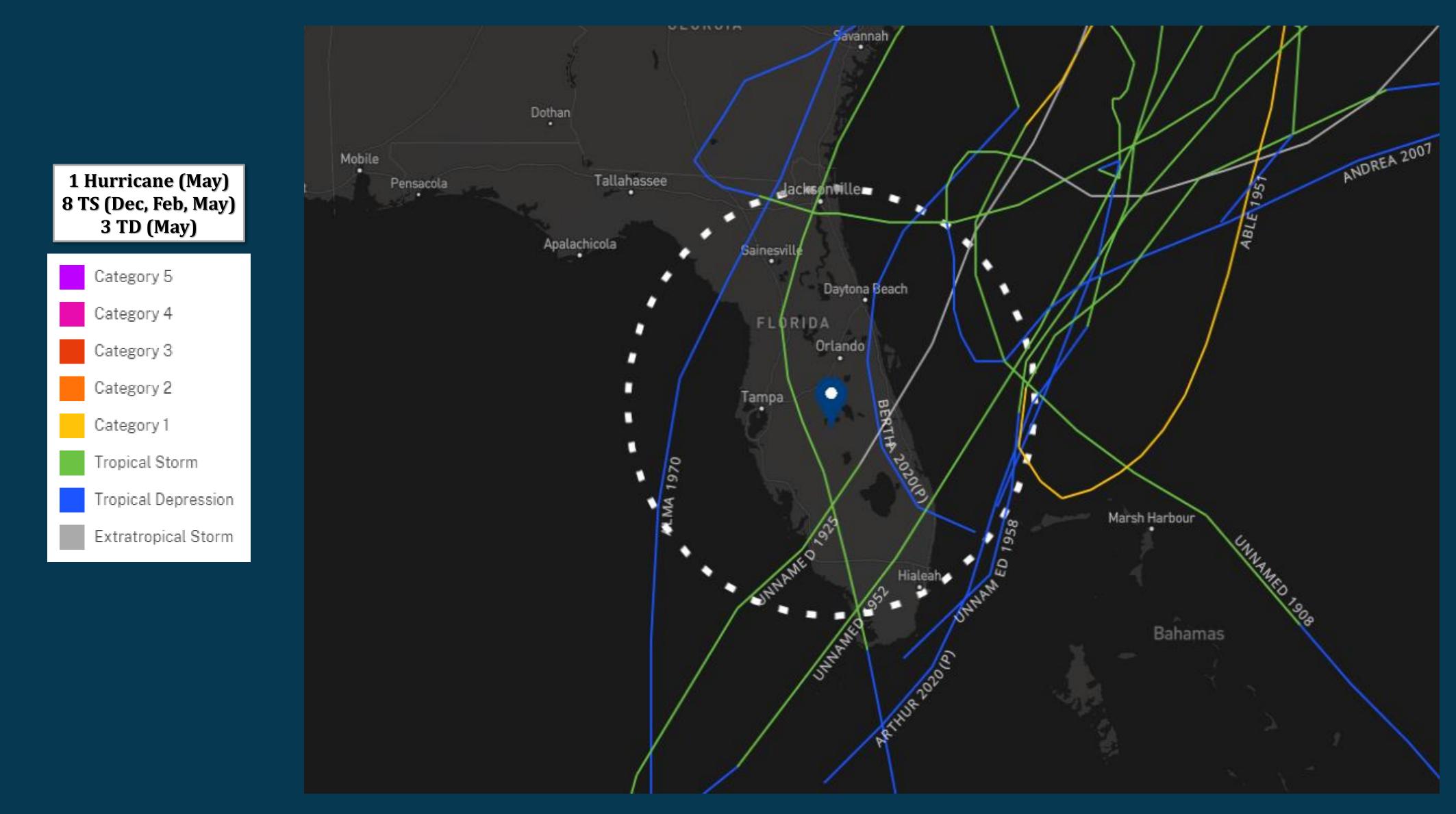








Historical Out Of Season Tropical Systems Passing within 150 nautical miles of Central Florida (1851-2020)



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Four Types of Impacts All tropical cyclones can produce one or combination of these





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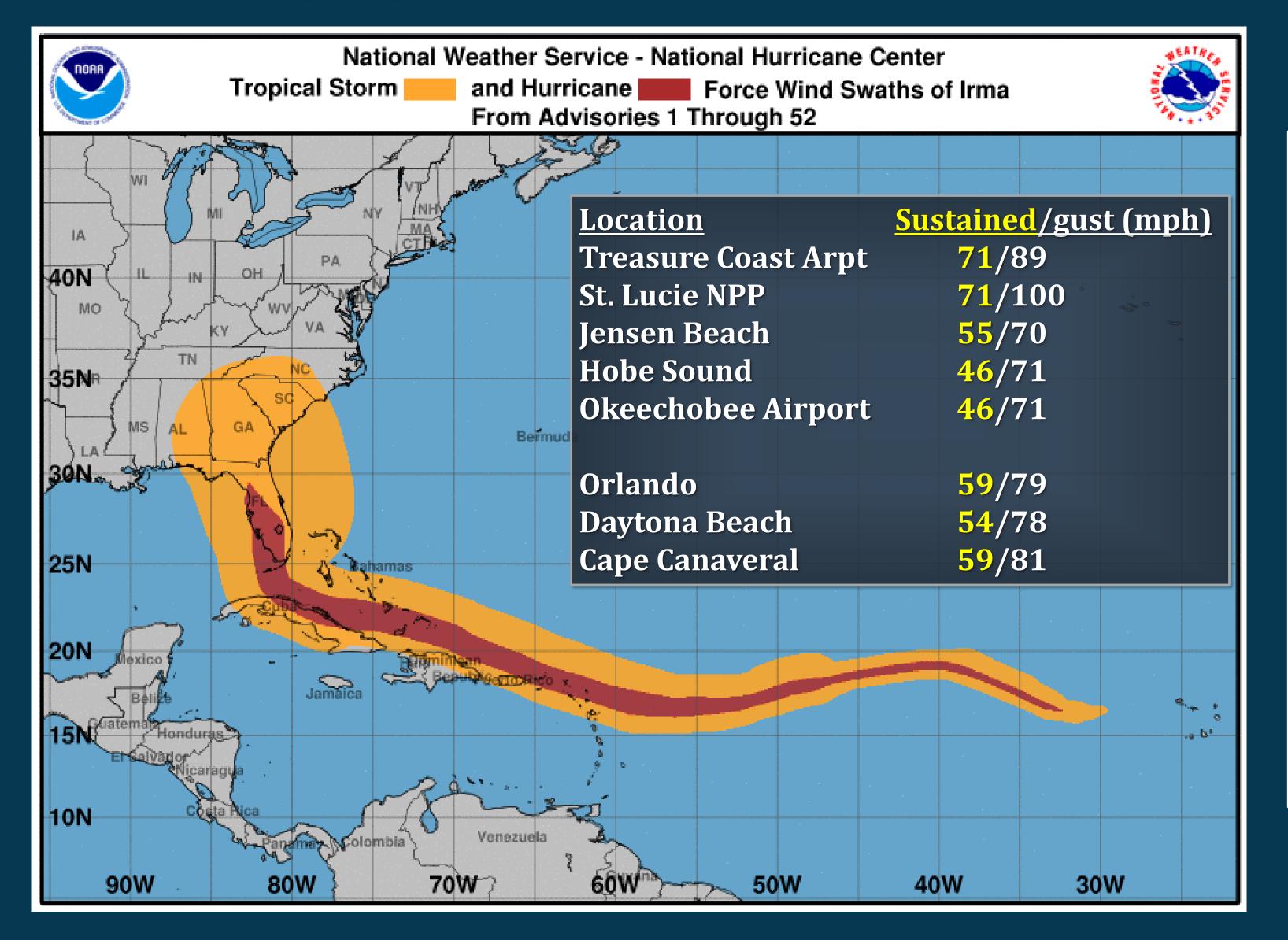




STORM SURGE TORNADOES



Hurricane Wind Impacts Hurricane Irma (2017) Wind Swaths



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Destructive winds occur within the eyewall (just outside of the eye)

Winds within outer rain-bands also produce damage, but usually not extreme.

Weather radar estimates suggest sustained winds of 50-70 mph with gusts of 75-95 mph impacted much of the east-central Florida coast.

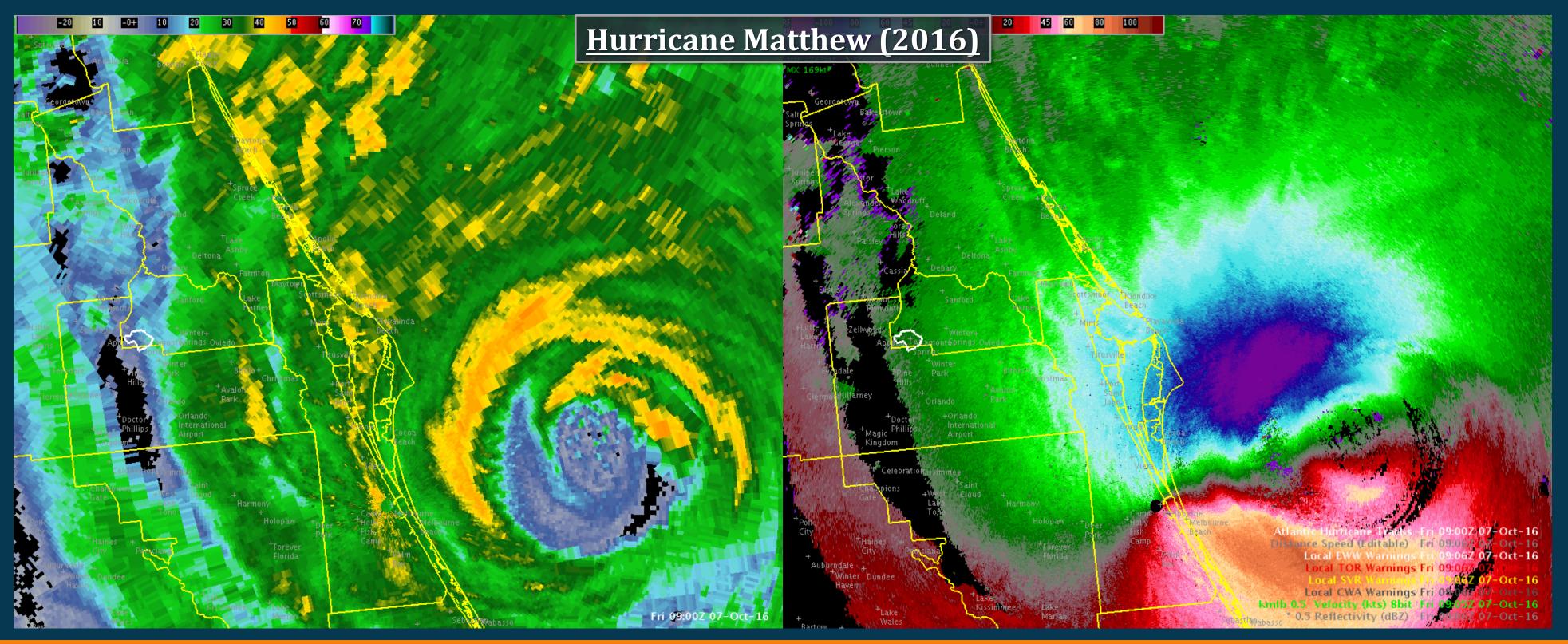
A few locations experienced peak wind gusts near 100 mph, associated with the strongest rain band squalls.





Nature of Extreme Hurricane Winds Equivalent in Strength to a Strong to Violent Tornado

Occurrence in any one location is a rare event. > Lives greatly imperiled; devastating/catastrophic damage. > Exponential increase in impacts; increased projectile loading. \triangleright Numerous rescues may be needed; difficult initial response. Collapsed community infrastructure; longer-term recovery.



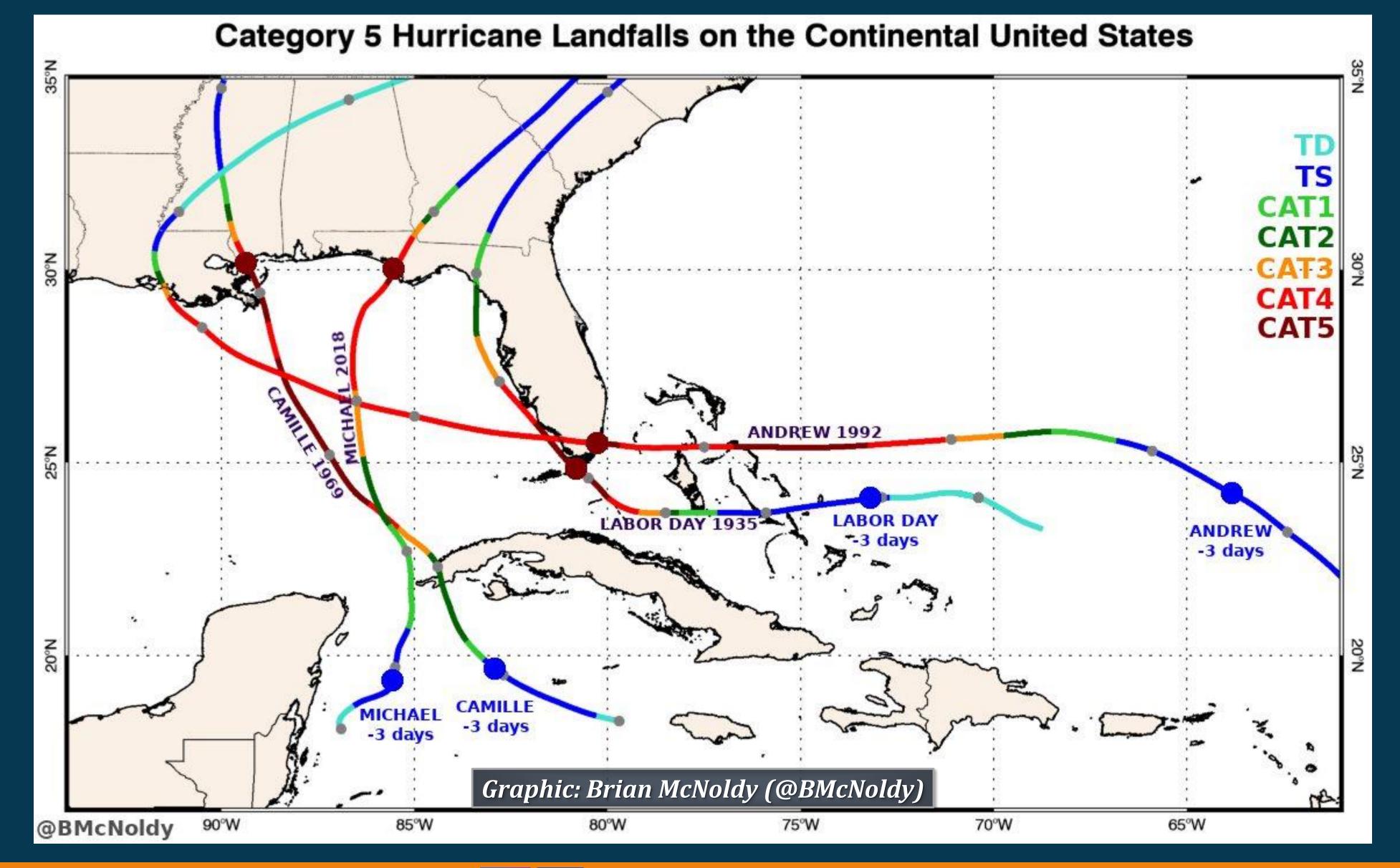
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U.S. Category 5 Landfalls Rapid Intensification A Common Factor



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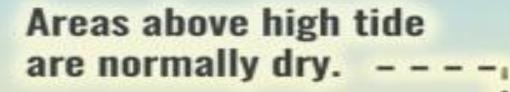
Understanding Storm Surge Flooding

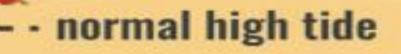
Storm surge flooding is often the greatest threat to life and property and directly accounts for about half of the deaths associated with tropical storms and hurricanes in the U.S. NOAA coastal flooding **forecasts are expressed as feet above ground level** to best account for variations in land elevation and features, and to focus on potential impacts.

storm surge

Nice Weather Day











Storm Surge Impacts

Э

Hurricane Michael Mexico Beach, FL



Melbourne Beach

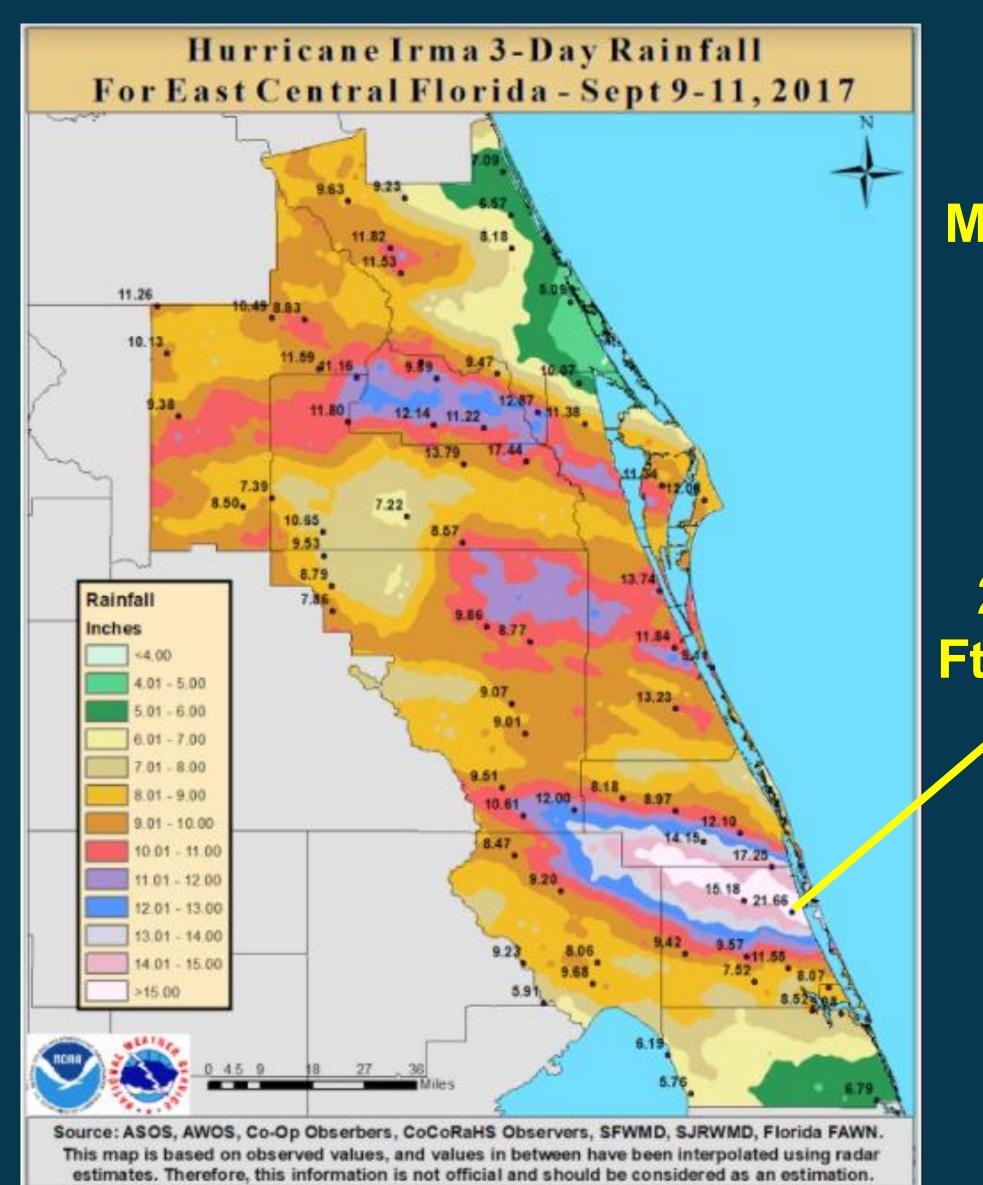
Hurricane Storm Surge Impacts in East Central Florida

Fort Pierce

Satellite Beach



Flooding Rain Impacts Hurricane Irma (2017) and Tropical Storm Fay (2008)



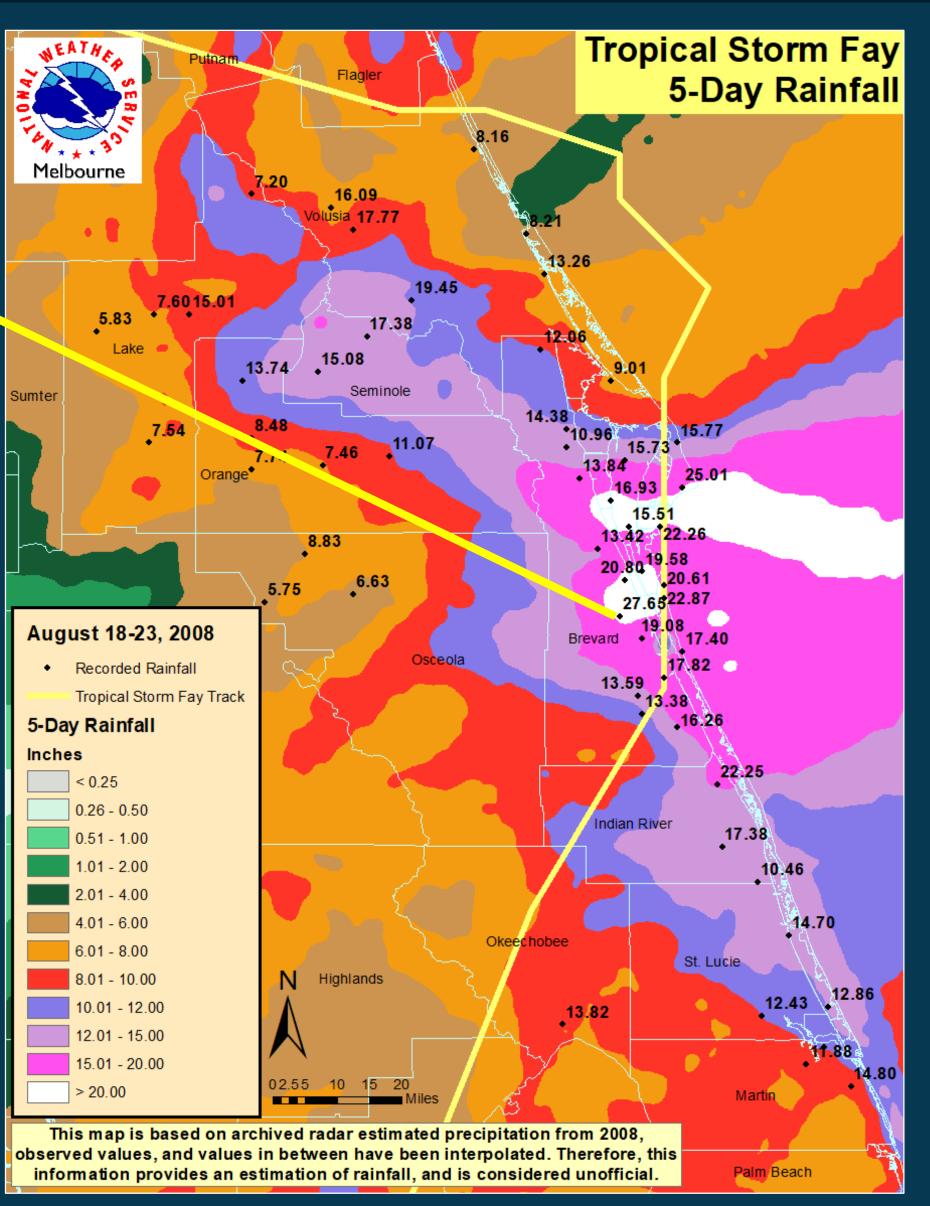
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27.65" Melbourne

21.66" **Ft. Pierce**

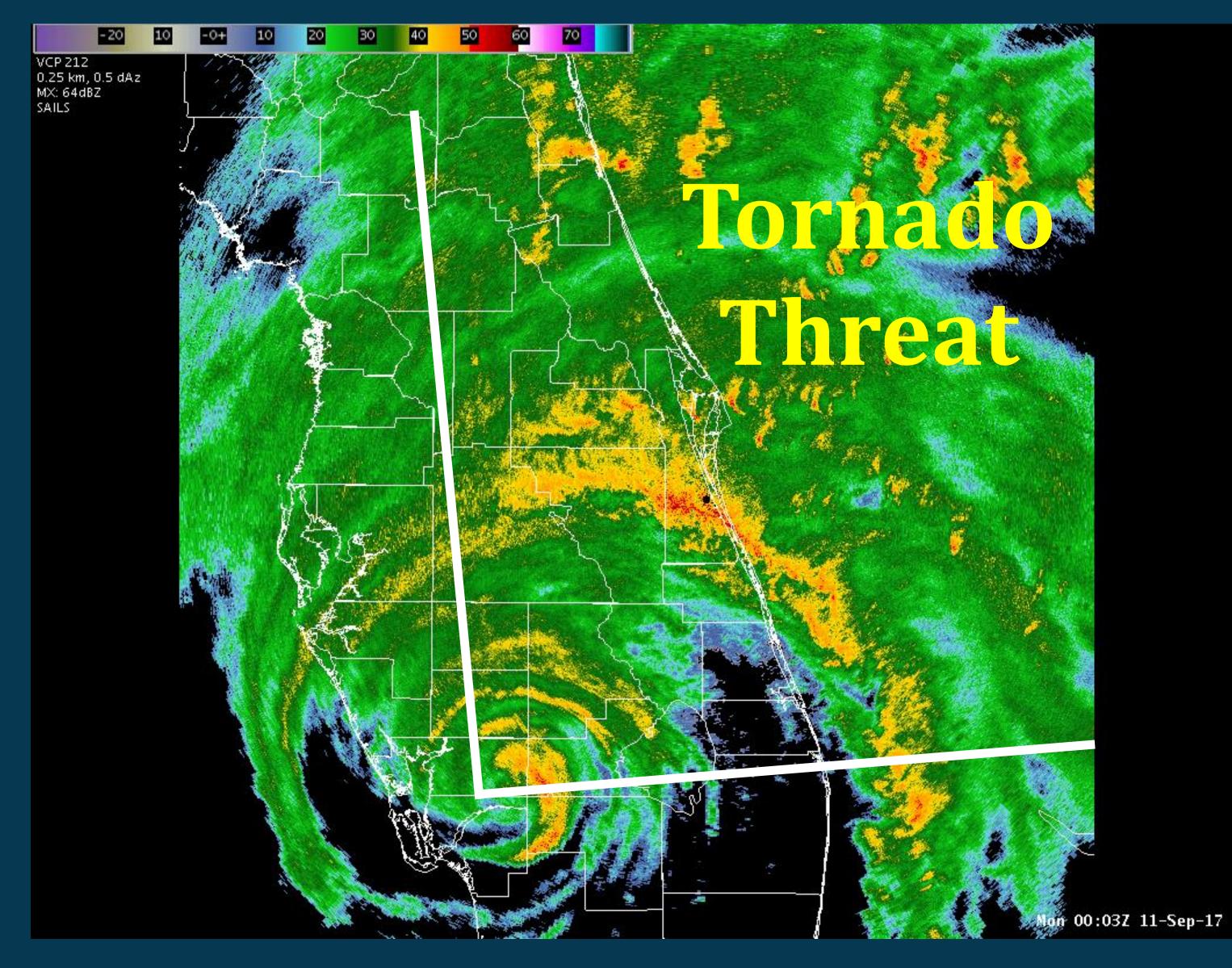
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Hurricane Irma (2017) Tornado Impacts



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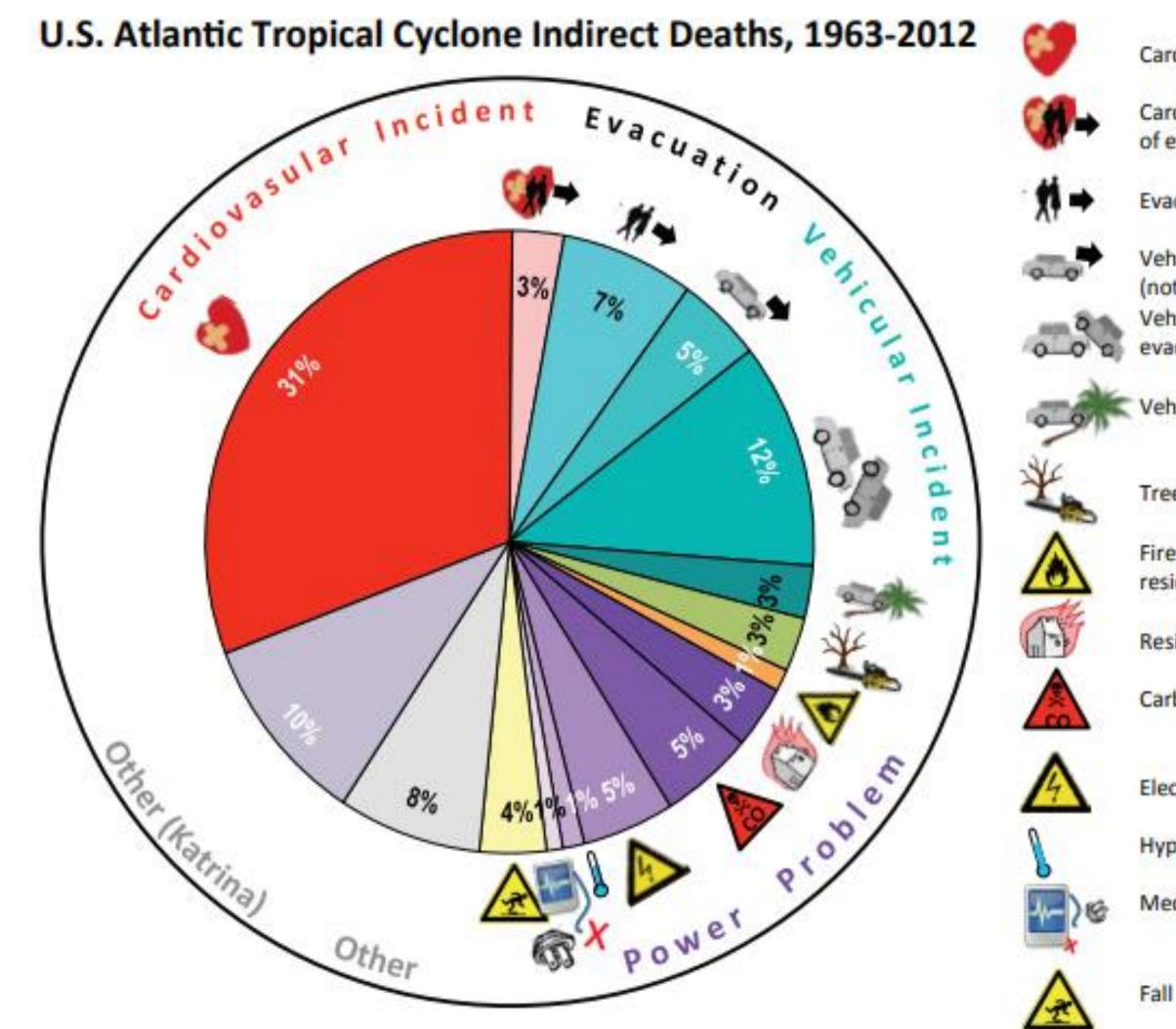




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Indirect Fatalities Longer-Term Impacts









Cardiovascular failure

Cardiovascular failure of evacuee

Evacuation (not with vehicle)

Vehicle accident w/evacuation (not with tree) Vehicle accident (not w/

evacuation, not with tree)

Vehicle hit downed tree

Tree work

Fire (not from open flame at residence)

Residential fire from open flame

Carbon monoxide poisoning

Electrocution

Hypothermia

Medical equipment outage

Most frequent factors

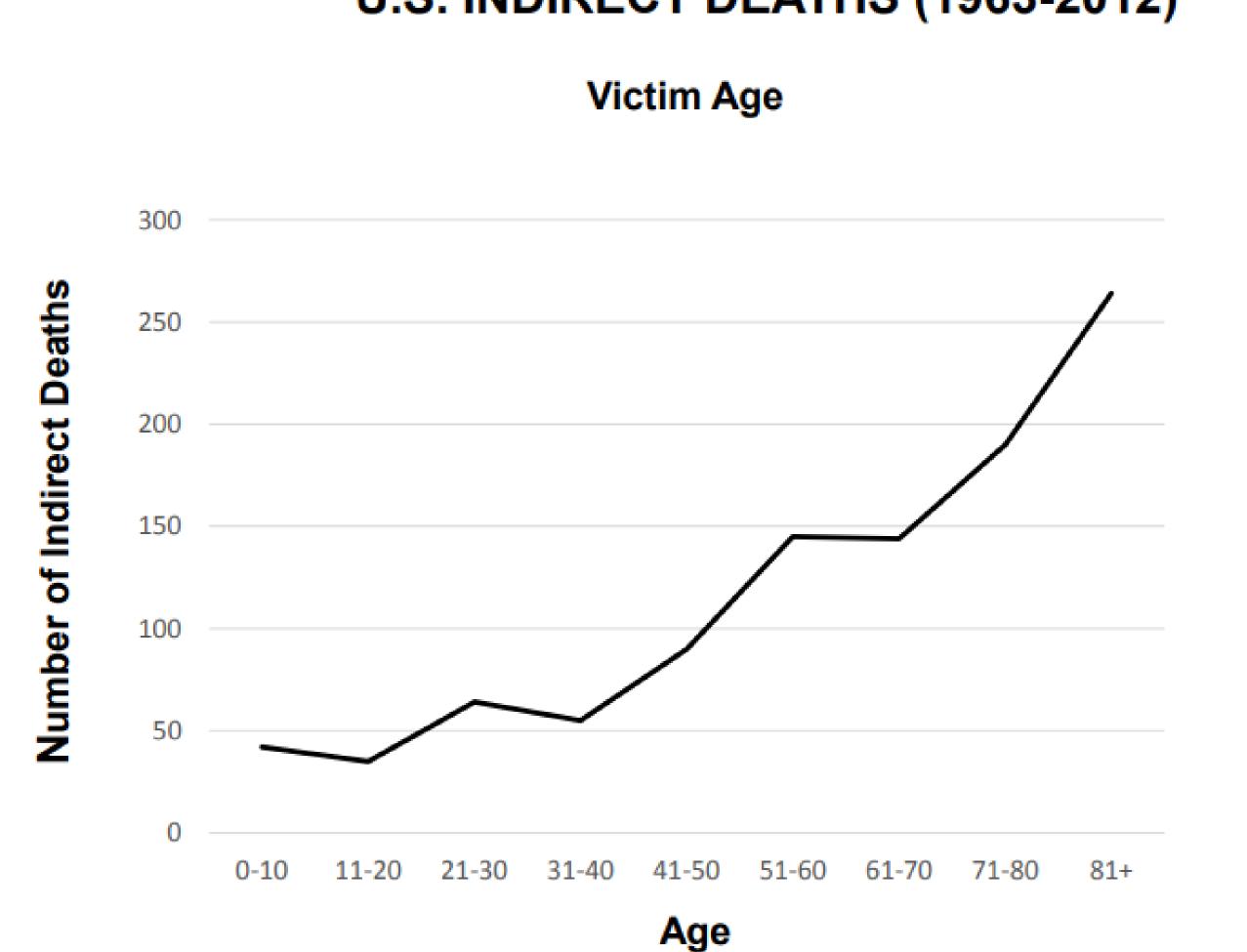
- Cardiovascular
- Loss of electricity
- Vehicle accident
- Evacuation





Indirect Fatalities Longer-Term Impacts

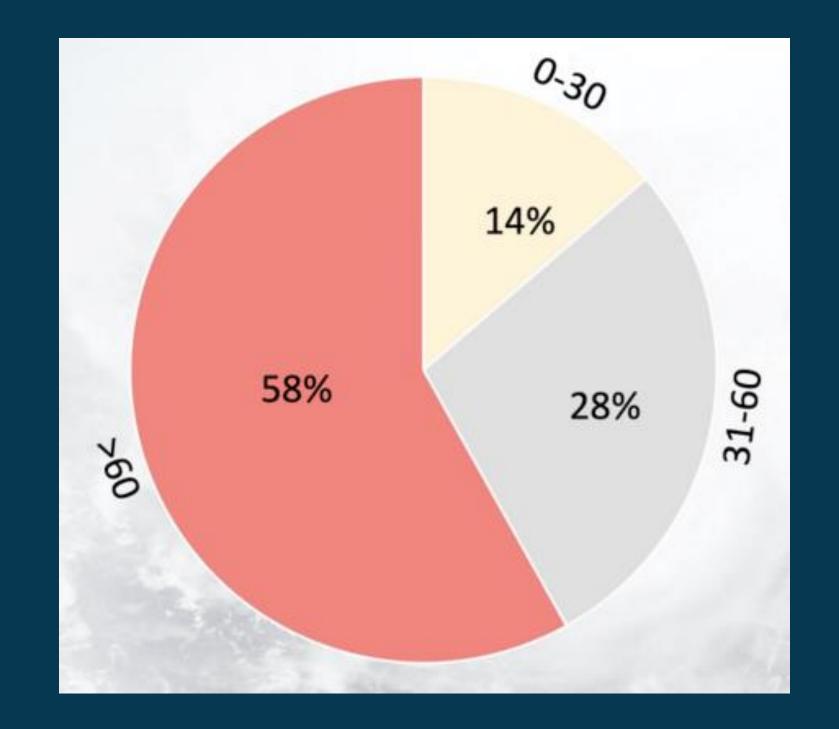
U.S. INDIRECT DEATHS (1963-2012)



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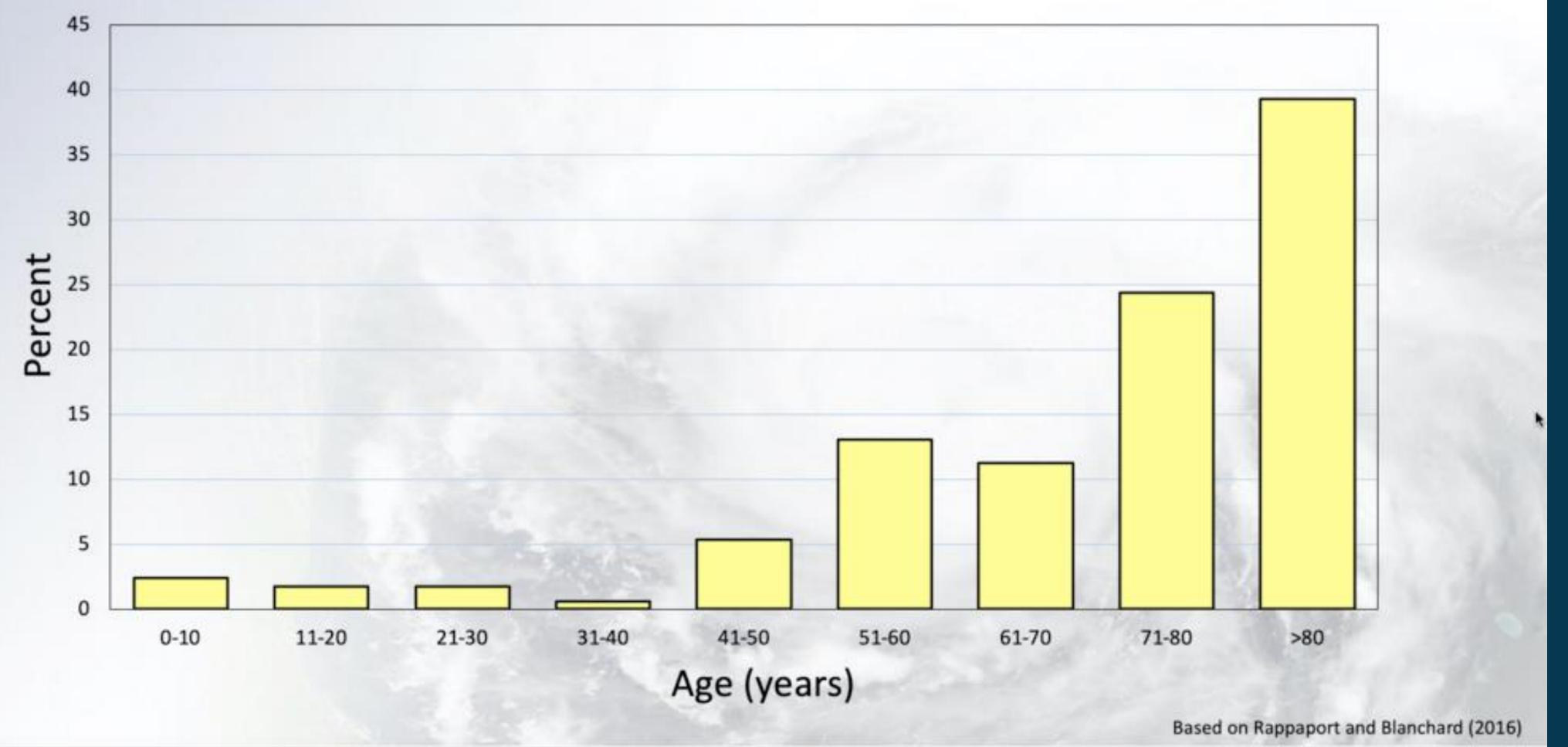
Number increases generally with age

<u>Eight times</u> as many victims over 70 years old as under 21 (influence of heart attacks)



Indirect Fatalities Longer-Term Impacts

U.S. Tropical Cyclone Indirect Deaths associated with Evacuation (Total = 168)



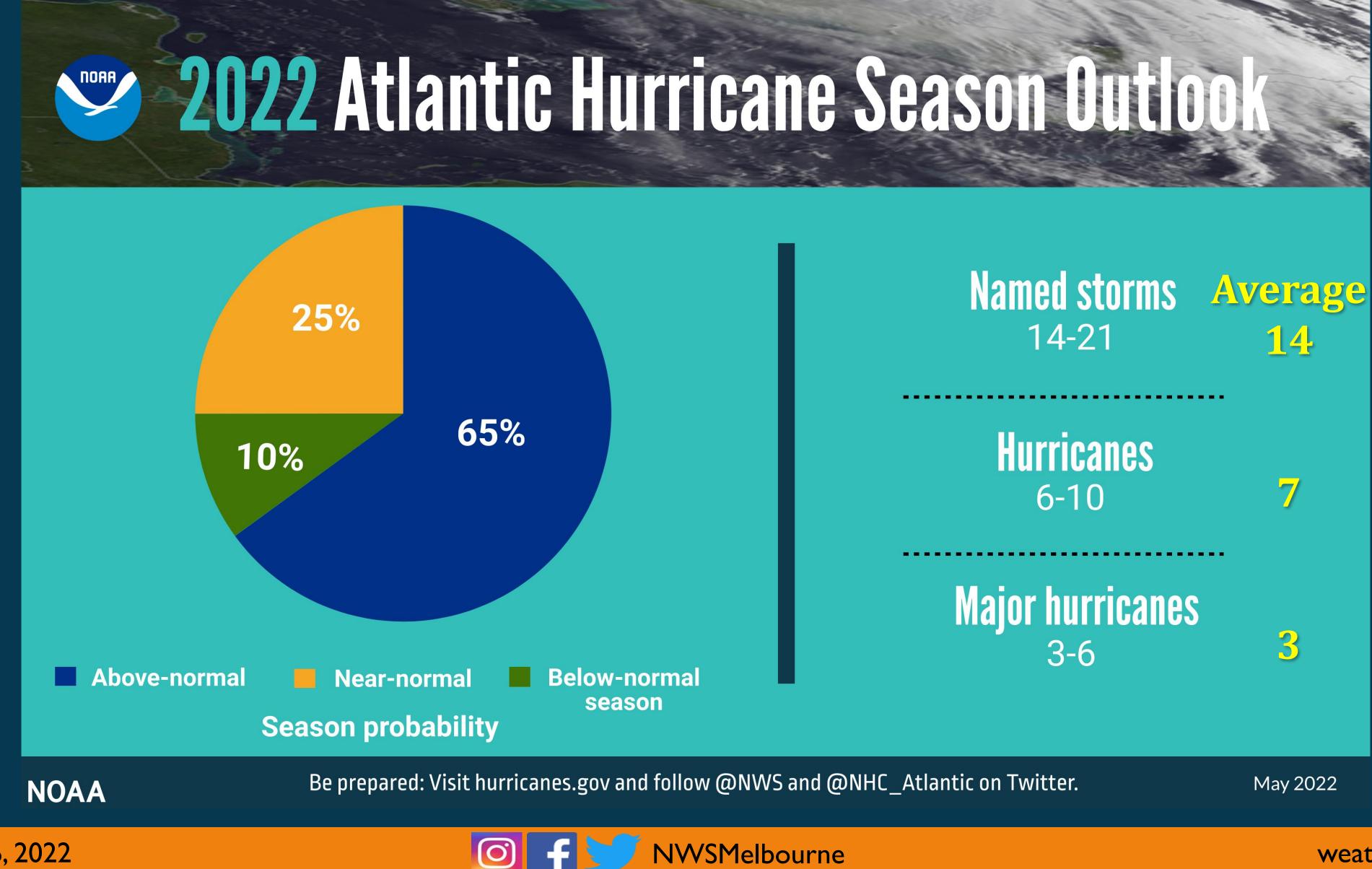
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2022 Atlantic Hurricane Season Outlook For the Atlantic, Caribbean Sea, and Gulf of Mexico (June-November)



Thursday, June 16, 2022



2022 Atlantic Hurricane Season Outlook For the Atlantic, Caribbean Sea, and Gulf of Mexico (June-November)

2022 Atlantic Tropical Cyclone Names

Alex Bonnie Colin Danielle Earl Fiona Gaston

Hermine an Julia Karl Lisa Martin Nicole

Names provided by the World Meteorological Organization

Be prepared: Visit hurricanes.gov and follow @NWS and @NHC_Atlantic on Twitter.

NOAA

Thursday, June 16, 2022





Owen Paula Richard Shary Tobias Virginie Walter

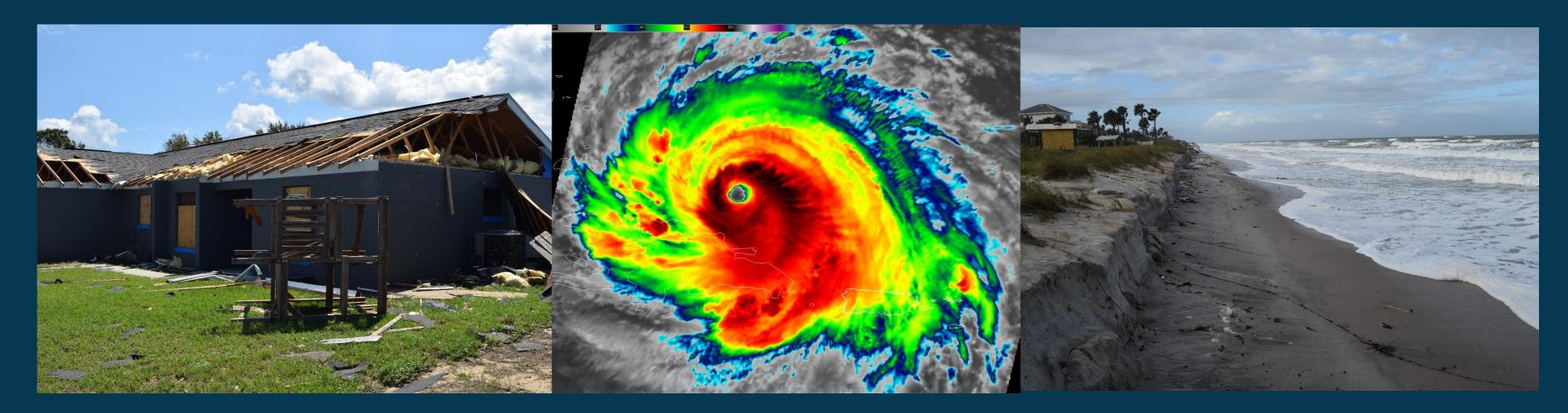
May 2022



Hurricane Season Reminder... Every Storm Is Different When It Comes To Impacts

Don't let past experiences determine your future actions

Plan, Prepare, and Follow Through





Thursday, June 16, 2022





2022 Hurricane Season Outlook **Central Florida Disaster Medical Coalition**



Paulette

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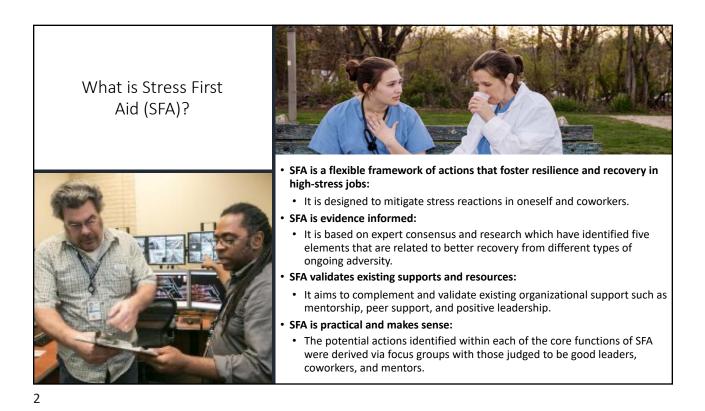
Kevin Rodriguez Meteorologist kevin.rodriguez@noaa.gov National Weather Service – Melbourne, FL



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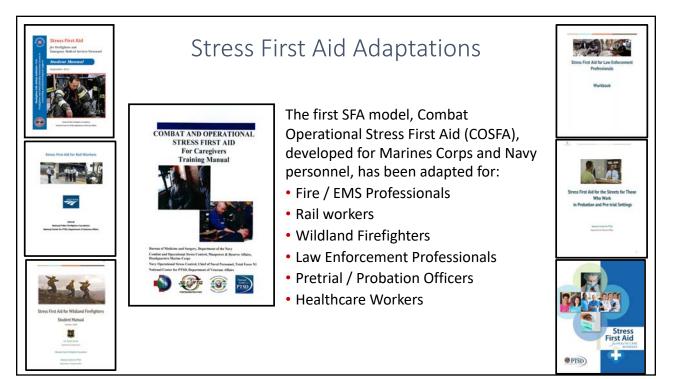




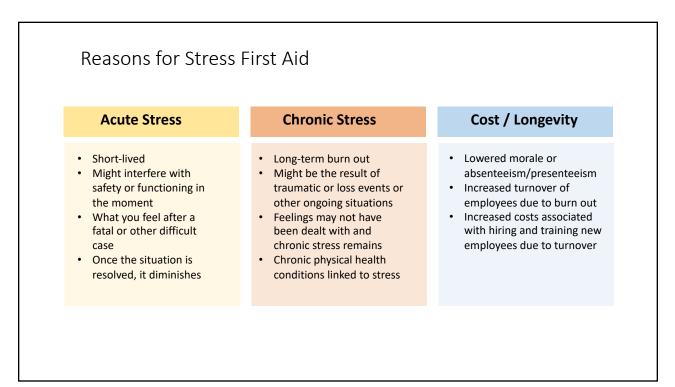






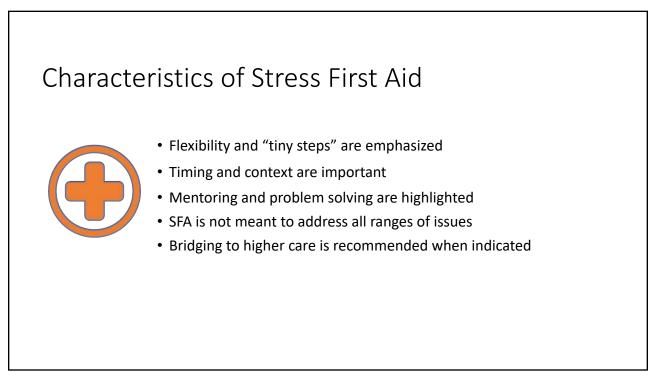


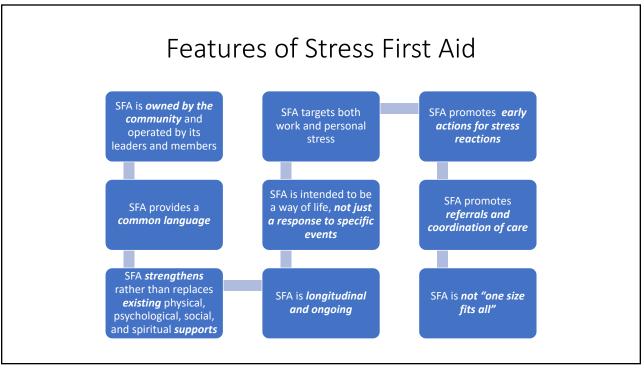


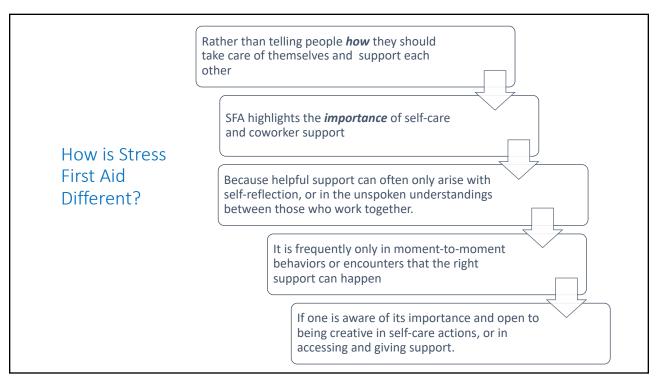


Self-Care and Coworker Support in Highly Adverse Conditions



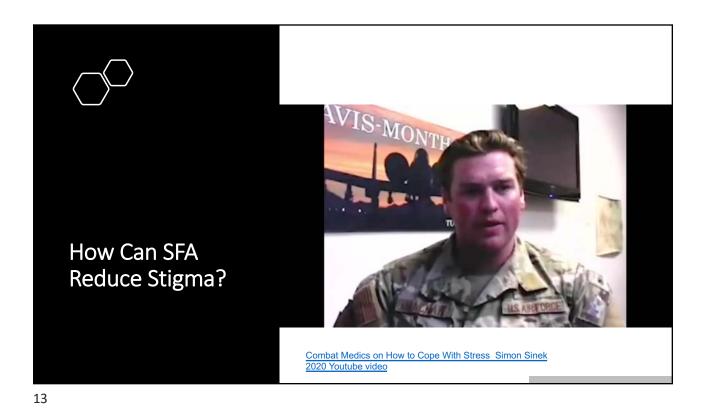


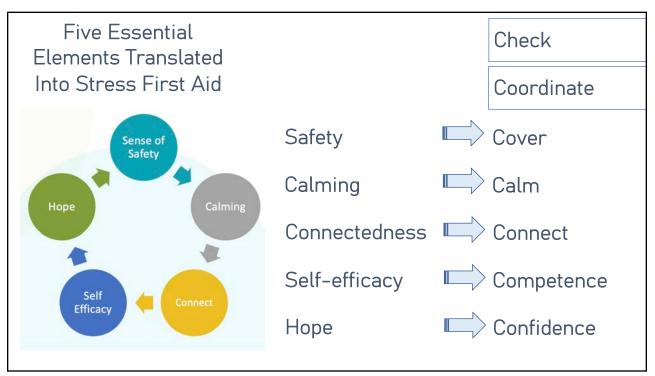


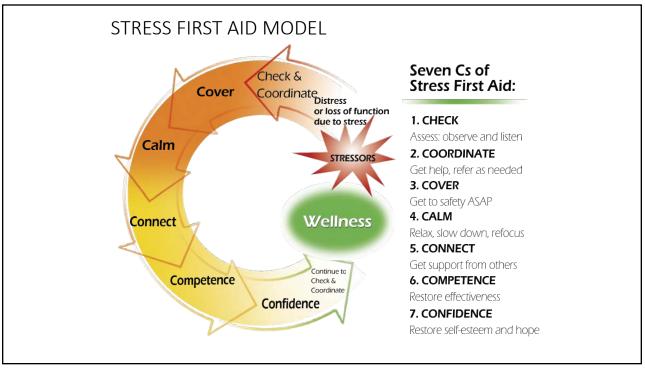


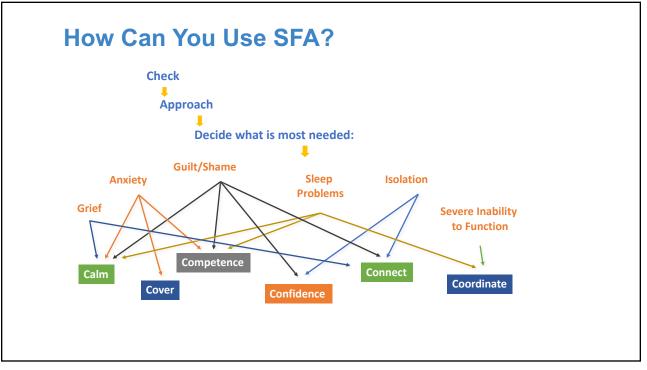
	Double Edged Sv	vord of Va	alues and Ideals	
Finding	_			
something important and meaningful in your life will help you sustain the effort needed to overcome the particular problems you face.	Placing the welfare of others above one's own welfare	Selflessness	Not seeking help for health problems because personal health is not a priority	Stress reactions are simply biological
	Commitment to accomplishing missions and protecting others	Loyalty	Guilt and complicated bereavement after loss of others	signals designed to nudge you in the direction of beneficial
	Toughness and ability to endure hardships without complaint	Stoicism	Not aware of / acknowledging significant symptoms /suffering	change. They are a sign that something
	Following an internal moral compass to choose "right" over "wrong"	Moral Code	Feeling frustrated and betrayed when others fail to follow a moral code	is going unaddressed - a call to action.
	Becoming the best and most effective professional possible	Excellence	Feeling ashamed / denial or minimization of imperfections	
				Manson. 2016

Str	ess Continuum: Circu	imstances and Featur	es
READY	REACTING	INJURED	ILL
<i>Circumstances:</i> Well trained Supported <i>Optimal functioning:</i> At one's best In control Motivated	Circumstances: Responding to multiple stressors at work or home Double-edged sword vulnerabilities Mild and transient distress or impairment: Changes in mood Loss of motivation Loss of focus Physical changes	Circumstances: Strong or multiple stressors: • Trauma • Loss • Moral injury • Wear and tear More severe or persistent distress or impairment: Loss of control No longer feeling like normal self	Circumstances: Unhealed orange zone stress Additional stress Risk factors Clinical mental disorder. Symptoms persist and worsen Severe distress Functional impairment



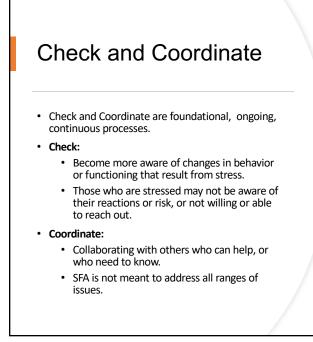


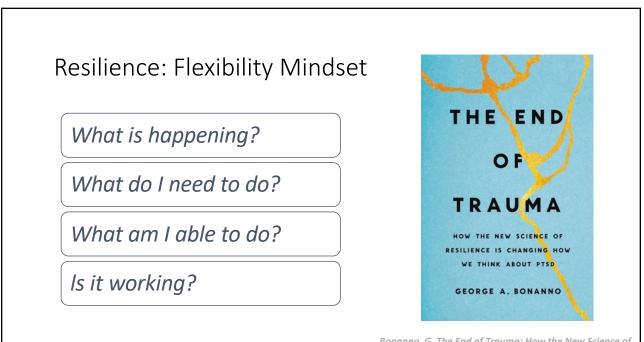




Essential	SFA Skills	
Recognize	Act	Know
Recognize when a coworker has a stress injury	Act: If you see something, do or say something • To the distressed person • To a trusted support of the distressed person	Know at least 2 trusted resources you would access or offer to a coworker in distress







Mo

Bonanno, G. The End of Trauma: How the New Science of Resilience Is Changing How We Think About PTSD, 2021



Cover Actions

- Stand by ready to assist
- Reduce anything that makes the person feel unsafe
- Reassure that they are safe in the moment
- Educate the person about how to be or feel safer
- Make others safe
- Focus the person on what to do rather than what not to do
- Reduce perceived threat



Cover Example Coworker Support

"On the whiteboard, we write our name if we think we are in the green zone that day, to give permission for coworkers to approach us for support without worrying about being a burden. We can erase our name if during the day we are no longer in green."

Calm Actions Maintain a calm presence Stop physical exertion and reduce heart rate Reassure by authority and presence Draw attention outwards to increase composure Foster rest and recuperation Listen with understanding and validate concerns Provide information about reactions and resources Provide brief instruction in grounding/breathing Role model calming actions and strategies

23



Calm: Example

- "If something is going wrong on a unit, someone will say "Orange huddle!"
- That means: "Everyone take breath, we're coming together."
- It's not blaming or shaming. It means there's an issue, we feel it, someone saw it, something is happening, and it's tense.
- It's a shorthand way to say: "Let's all take a breath. What do we need to do? This is the shift from hell, but we'll make it through.""

Reasons for a Need for Connect

Trust

Stress-related decrements in social skills

Lack of positive feedback or support

Exhaustion

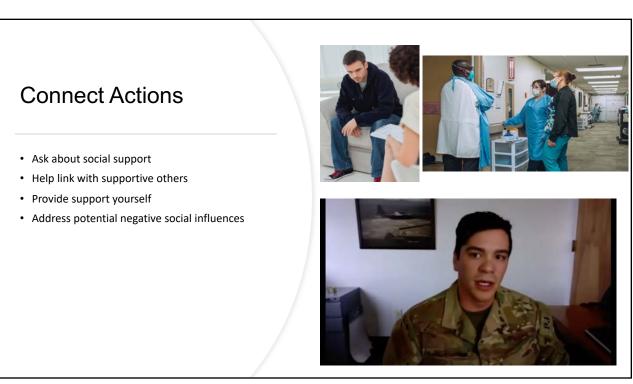
Fear of being misunderstood or being a burden

Avoidance

Orange zone behaviors

Needs for different social support network

Stigma



Connect Examples: Coworker Support

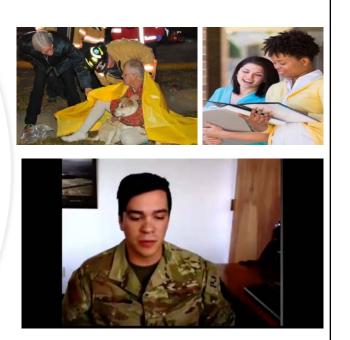


"I try to make my staff laugh as much as possible throughout the day. I also take advantage of any lulls throughout the day to hold round tables with the staff. During these round tables, staff can voice their concerns over anything that bothers them. I also try to make myself available and approachable to staff at all times during the day."

"I try to help a co-worker who is drowning by giving a medication to a patient or starting an IV - just a simple task to allow them to catch up."

Competence Actions

- Improve occupational skills to reduce risk of stress reactions in inexperienced staff (Give extra training or mentoring)
- Improve well-being skills to deal with stress-reactions (calming, problem-solving, health habits, managing reminders)
- Improve social skills to deal with stress-reactions (requesting support, conflict resolution, assertiveness, seeking mentoring)
- Mentor or increase training
- Reassign or temporarily suspend key job duties if necessary
- Reintegrate back into duties when possible



Competence Example: Coworker Support

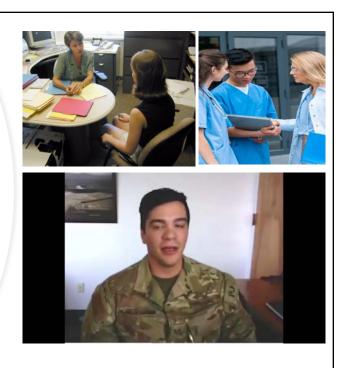


"If someone is second-guessing how they did something, I will share how I've done something similar. I think when we can share our experience, how it affected us and how we dealt with something, it probably helps the person to understand, "all right, I'm going to be okay." It's not permanent and it's a normalizing thing, and it's part of the process."

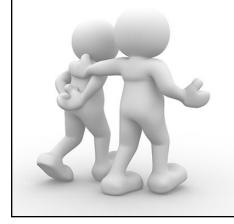
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Confidence Actions

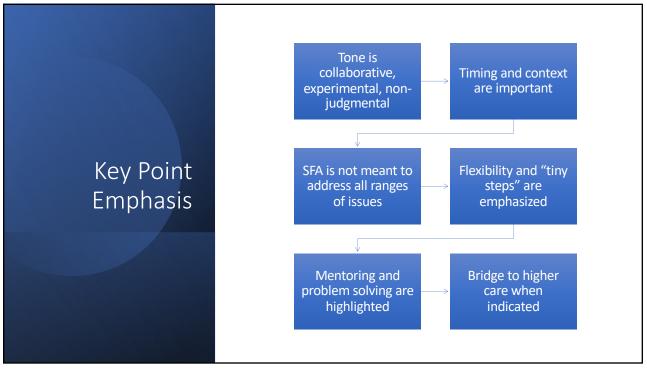
- Rebuild **hope**, trust and self-confidence that may have been damaged or lost as a result of stress.
 - Show appreciation and point out strengths
 - Validate and normalize stress reactions
 - Reduce guilt about actions
- Facilitate **meaning-making**, making sense of life, and improved perspective, purpose or faith.



Confidence Example: Coworker Support



"There was a time where I dropped the ball. It was not earth-shattering, but it was significant. I was completely unable to connect the dots at all until one day my supervisor talked to me and said, 'During that same time period, your mom had been terminally ill and then passed away.' As obvious as it should have been, I was not able to see the connection until he said that to me."

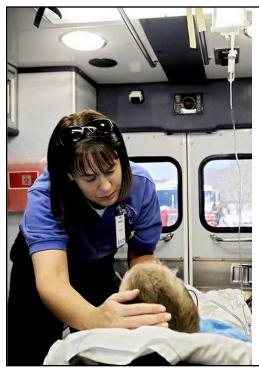






Lessons Learned

- Keep it grounded
- Adjust to context
- Adjust to zones of stress
- Keep open
- Keep asking questions
- Adapt in an ongoing, reciprocal, 'living' way



Person- Centered SFA

Goals: Person- Centered Stress First Aid	Make a connection in a helpful/respectful way
	Restore/support a sense of safety
	Calm and orient distressed individuals
	Connect individuals to their sources of support
	Improve the ability of those affected to address their most critical needs
	Foster a sense of hope / limit self-doubt and guilt

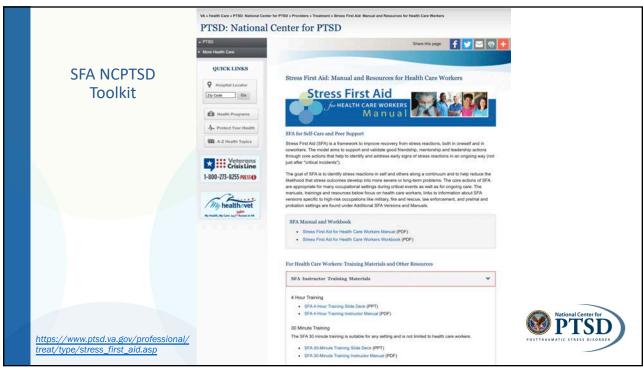
Components of Person- Centered Stress First Aid	Approach	Maintain an approach that conveys respect, care and compassion
	Information	Get and give information in helpful ways
	Direction	Direct people in a way that focuses them and reduces distress

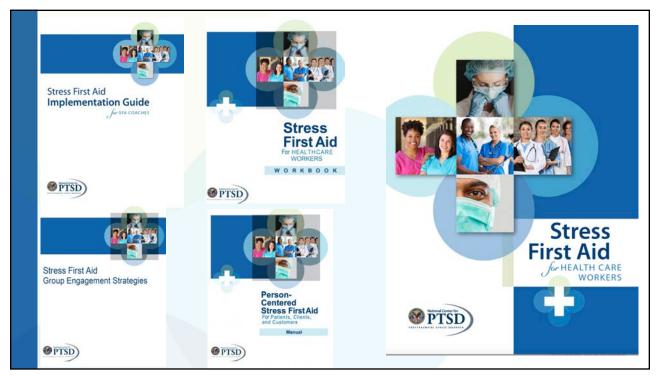
Person-Centered Stress First Aid: Key **Points** ÎŇ inini IF YOU RESPECTFULLY YOU WILL NOT BE **INCORPORATE SFA** THE CONNECTION YOU IMPLEMENT SFA CONVEY THAT PEOPLE REQUIRED TO USE ACTIONS INTO YOUR MAKE CAN HELP PEOPLE ACTIONS ONLY WHEN SFA WITH EVERY DUTIES IN A RECOVER FROM THE STRESS MATTER, YOU WILL HELP THEY DO NOT PATIENT, CLIENT, OR OF WHAT THEY HAVE BEEN THEM GET THROUGH THE NATURAL, SEAMLESS INTERFERE WITH YOUR DIFFICULTIES THEY FACE. CUSTOMER. WAY THROUGH. PRIMARY DUTIES.

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P	SYCHOLOGICAL FIRST AID (PFA)	SKILLS FOR PSYCHOLOGICAL RECOVERY (SPR)	STRESS FIRST AID (SFA)
GOALS	 Address immediate needs, concerns and priorities Reduce distress and support healthy functioning 	 Empower people to learn and practice healthy coping skills 	 Self-care and peer support for those in high stress occupations Stress management support for clients or the public
WHEN TO USE	Immediate aftermath following a disaster or adverse event	 Weeks, months or years following a disaster or adverse event Threat is less imminent People have the capacity to build or practice adaptive coping skills 	 Immediate and long-term support for a broad range of stressful situations
WHO PROVIDES	Trained professionals or laypersons	Trained professionals or laypersons	 Those who work in high stress occupations (e.g., military, first responders, health care providers) or community and business leaders
(?) HOW TO EMPLOY	Make contact and engage people with respect and care Provide safety and comfort Stabilize highly distressed or disoriented people Gather information to decide what is most helpful Foster practical assistance Connect with social support Give information on healthy coping Link with collaborative services and resources	 Build problem-solving skills Promote positive activities Manage reactions Promote helpful thinking Rebuild healthy social connections 	 Check on stress reactions Coordinate with other resources and more intensive support Cover by increasing sense of safety Calm with presence, information and actions Connect with social support Improve Competence by fostering work, social and wellbeing skills Increase Confidence, meaning and hope

r Health Care Workers: Training Materials and Other Resources	Resources
SFA Instructor Training Materials	Y For Friends and Family: Supporting Essential Workers in Extended Disasters or Public Health Crises
Webinars	(PDF) Support from close family members and friends can be crucial for essential workers during long-lasting disasters or public health crises. This PDF discusses some practical actions that you can take to help a disaster in the discussion of the discussion of the proceeding of the discusses.
n Update on How Mental Health Providers Can Care for Themselves and Support Colleagues Du te COVID-19 Pandemic (MP4) 양	family member or friend deal with the stress they are feeling.
y Patricia Watson, PhD	Grief: Different Reactions and Timelines in the Aftermath of Loss (Article)
TSD Consult Lecture webinar	After loss, there is no specific way of grieving that is right or wrong, and there is not a "normal" length of time to grieve. Learn about common grief reactions, the process of grieving over time and prolonged or the process of grieve to be about the process of grieving over time and prolonged or the process of grieves.
low Mental Health Providers Can Care for Themselves and Support Colleagues During the COVII frus Outbreak (MP4)	
By Patricia Watson, PhD	Grief: Taking Care of Yourself After a Loss (Article)
TSD Consult Lecture webinar	There are many ways to take care of yourself when you are grieving. Learn about factors that may influence self-care strategies, challenges grieving death resulting from disaster or public health crisis
Caring for Yourself and Others During the Pandemic: Managing Healthcare Workers' Stress	and strategies noted by others to help reduce grief over time.
By Patricia Watson, PhD.	
he Schwartz Center for Compassionate Healthcare webinar	Grief: Helping Someone Else After a Loss (Article)
	In the wake of loss, it can be hard to take care of those you care about who are grieving. There are many possible ways to offer support to someone who is grieving, and a variety of factors that affect how
Caring with Compassion: Supporting Patients and Families in a Crisis	you can offer support.
By Patricia Watson, PhD and Richard Westphal, PhD, RN	
The Schwartz Center for Compassionate Healthcare webinar	For Leaders: Helping Employees in the Aftermath of Loss (Article)
Helping Those Who Serve: How Family Members and Friends Can Support Healthcare Workers D	Tins to belo leaders support original employees through communication flexibility and workplace
COVID-19 IS	policies.
By Patricia Watson, PhD	
Aental Health Forum Series webinar, Harvard T. H. Chan School of Public Health	ICPTSD
Early Intervention Following Disasters: Principles of Psychological and Stress First Aid (MP4)	Additional SFA Versions and Manuals
By Patricia Watson, PhD PTSD Consult Lecture webinar	Military: Combat Operational Stress First Ald Manual (COSFA)
Les Anight Perints Hanild	Fire and Rescue: Stress First Aid for Firefighters and Emergency Medical Services Personnel
Moral Injury in Vietnam Veterans 🗗	Forest Service: Stress First Aid for Wildland Firefighters
By Patricia Watson, PhD and LeAnn Bruce, PhD	Judicial System: Stress First Aid for the Streets for Those Who Work in Pre-Trial and Probation
National Hospice and Palliative Care Organization webinar	Settings
ne anna a chuir a na fhrainn anna ann ann an anna ann ann an thanna 1960 (1977–1977) (1977–1977)	Law Enforcement: Police Officer Toolkit - Stress First Aid Model