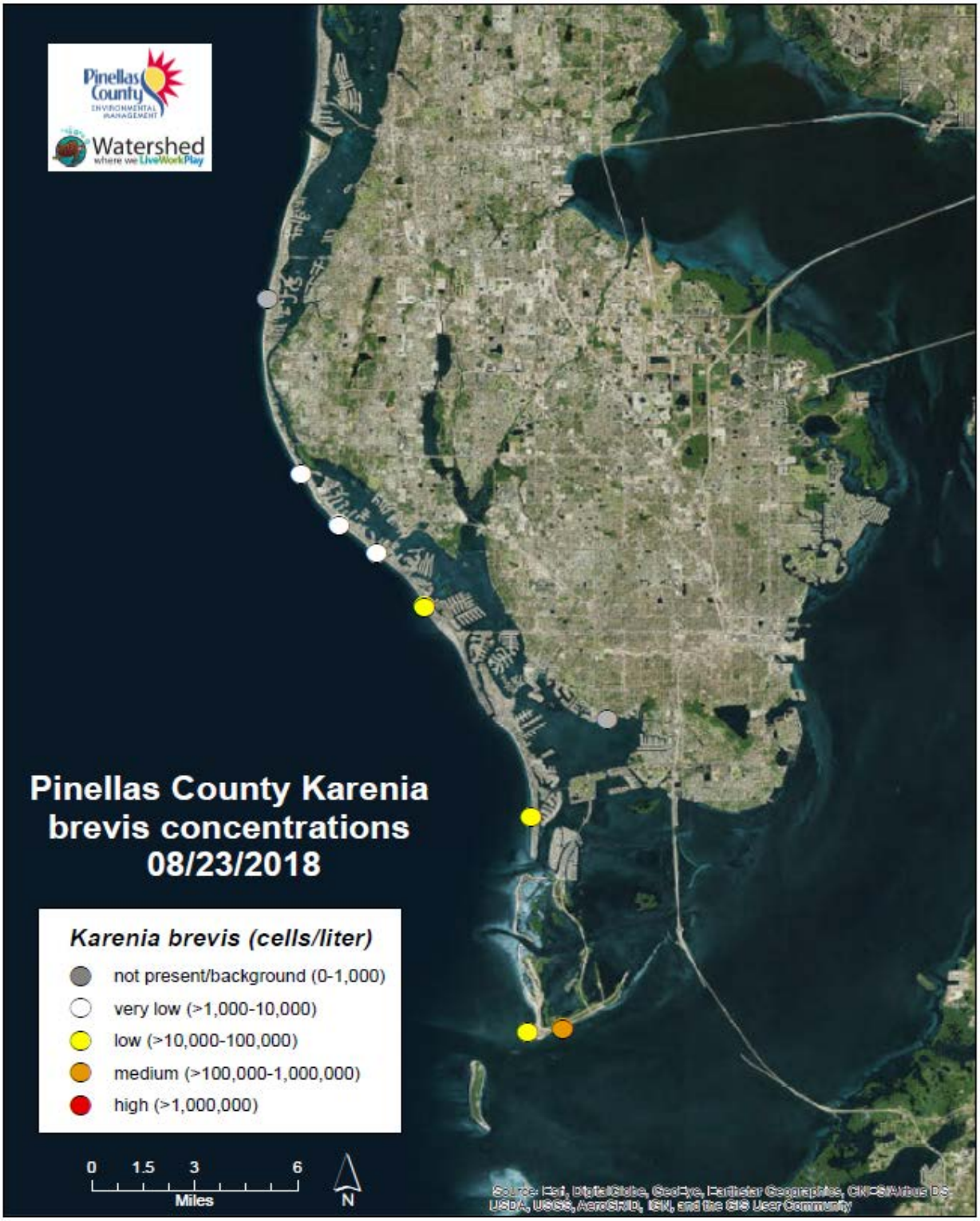
August 23, 2018 Red Tide Status Update



Detailed information on following pages

Monday 8/20/2018, sampling and analysis performed by FWC.

- Ft. De Soto Gulf Pier - Medium (lower end of the range)
- Bayboro Harbor in St. Petersburg- Not Present
- Pass-A-Grille at 37th Ave - Low
- Redington Beach (La Contessa Pier) – Low
- Indian Rocks Beach at 3rd Av – Very Low
- Belleair Shore at 6th St – Not Present
- Clearwater Pass – Not Present
- Honeymoon Island – Not Present
- St. Joseph Sound (Howard Park) – Background

Tuesday 8/21/2018, sampling and analysis performed by Pinellas County.

- Ft. De Soto Gulf Pier – Low
- Ft. De Soto Ferry Pier on the Tampa Bay side – Medium (lower end of the range)
- John's Pass – Not Present
- Gulfport – Background
- Redington Beach (La Contessa Pier) – Very Low
- Indian Shores – Very Low

Tuesday 8/21/2018, sampling and analysis performed by FWC

- Ft. De Soto Boat Ramp – Low
- Bunces Pass (mouth) - Low
- Lower Tampa Bay (Conception Key) – Background
- North Skyway Rest Area – Very Low

Wednesday 8/22/2018

- Ft. De Soto Gulf Pier – Low
- Ft. De Soto Ferry Pier on the Tampa Bay side – Medium (middle of the range)
- Pass-A-Grille Beach – Low
- Pass-A-Grille Channel – Very Low
- John's Pass – Low
- Gulfport – Very Low
- Redington Beach (La Contessa Pier) – Very Low
- Redington Shores – Not Present
- Indian Shores – Very Low
- Indian Rocks Beach – Low

THURSDAY 8/23/2018

- Ft. De Soto Gulf Pier – Very Low
- Ft. De Soto Ferry Pier on the Tampa Bay side – Medium (lower end of the range)
- Pass-A-Grille Beach – Low
- Sunshine Beach (south of John's Pass)– Low
- Gulfport Fishing Pier – Not Present
- Madeira Beach Archibald Park – Very Low
- Redington Beach (La Contessa Pier) – Very Low
- Redington Shores Beach Access – Very Low
- Indian Rocks Beach 1700 Gulf Blvd – Not Present

Description	*Karenia brevis* abundance	Possible effects (*Karenia brevis* only)
NOT PRESENT - BACKGROUND	0 - 1,000 cells/L	no effects anticipated
VERY LOW	> 1,000 - 10,000 cells/L	possible respiratory irritation; shellfish harvesting closures ≥ 5,000 cells/L
LOW	> 10,000 - 100,000 cells/L	respiratory irritation; possible fish kills; probable detection of surface chlorophyll by satellites at upper range of cell abundance
MEDIUM	> 100,000 - 1,000,000 cells/L	respiratory irritation; probable fish kills; detection of surface chlorophyll by satellites
HIGH	> 1,000,000 cells/L	as above, plus water discoloration

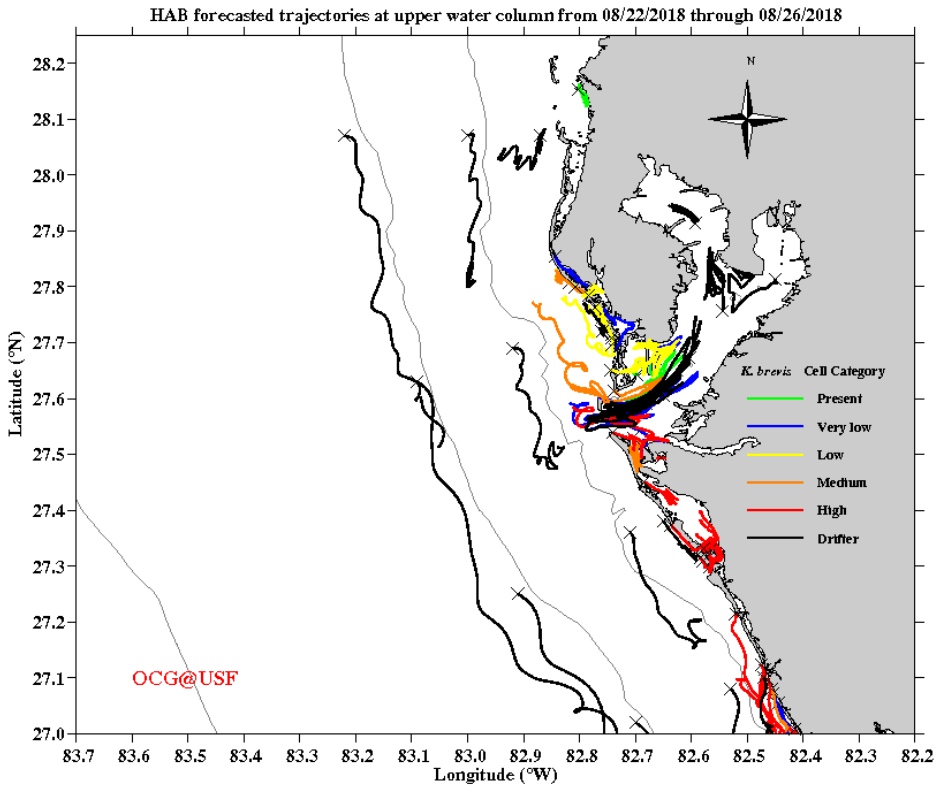
Pinellas County Environmental Management will be conducting additional monitoring to supplement FWC's current efforts. Reports will be updated daily or as soon as possible when monitoring results are available and will also be published to the Pinellas County Environmental News Facebook Page.

Parks and Conservation Resources staff are monitoring conditions at County Parks along the Gulf and in Tampa Bay.

- Fred Howard Park – No red tide conditions observed
- Sand Key Park – No red tide conditions observed
- Ft. De Soto Gulf beaches - Sporadic fish kills along Gulf and Bayside, minor aerosol on Gulf side and strong aerosol on the Bayside.

USF's current 5 day trajectory predicts net southern movement of surface waters and net southeastern transport of subsurface waters over the next three days.

Current images are shown below and can be observed at http://ocgweb.marine.usf.edu/hab_tracking/HAB_trajectories.html


HAB forecasted trajectories at upper water column from 08/22/2018 through 08/26/2018
N
K. brevis Cell Category
Present
Very low
Low
Medium
High
Drifter
OCG@USF
Latitude (°N)
Longitude (°W)
28.2
28.1
28.0
27.9
27.8
27.7
27.6
27.5
27.4
27.3
27.2
27.1
27.0
83.7
83.6
83.5
83.4
83.3
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83.0
82.9
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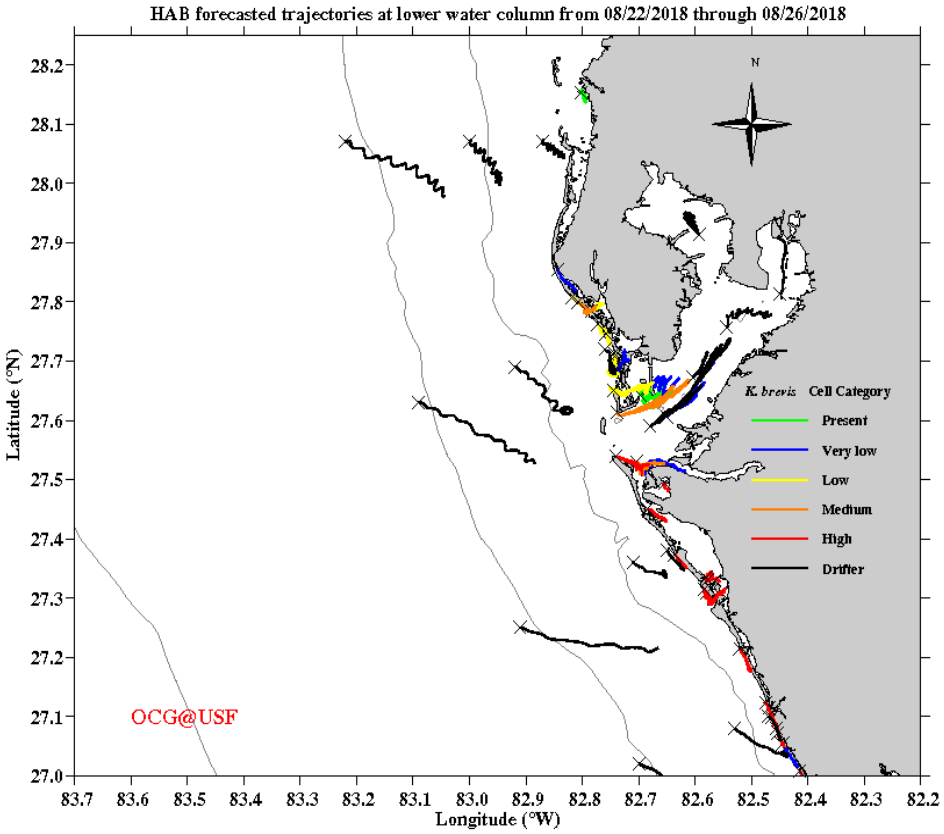
82.7
82.6
82.5
82.4
82.3
82.2


HAB forecasted trajectories at lower water column from 08/22/2018 through 08/26/2018
N
K. brevis Cell Category
Present
Very low
Low
Medium
High
Drifter
OCG@USF
Latitude (°N)
Longitude (°W)
28.2
28.1
28.0
27.9
27.8
27.7
27.6
27.5
27.4
27.3
27.2
27.1
27.0
83.7
83.6
83.5
83.4
83.3
83.2
83.1
83.0
82.9
82.8
82.7
82.6
82.5
82.4
82.3
82.2

There are several links on our website to other agencies monitoring the red tide situation including:

FWC: http://myfwc.com/REDTIDESTATUS
Mote Marine: http://coolgate.mote.org/beachconditions/