

Sponges of Navassa

This photographic guide was compiled from data collected during the 2004 NOAA survey of the coral reefs of Navassa and does not represent a comprehensive list of all Porifera in Navassa. Specifically missing are taxa that inhabit caves, overhangs, vertical walls; species that live in the interstices of the reef framework; and species found at depths greater than 50 meters. Specimens were identified by Janie Wulff and Timothy Swain of Florida State University using a combination of digital photography, field observations, and microscopic examination of siliceous spicules. Genera are organized into higher taxa according to *Systema Porifera*, Hooper & van Soest (ed.) 2002. We have purposefully erred on the side of splitting similar taxa for which a species designation could not be definitively assigned, in order to demonstrate the range of forms observed in this survey. Some species are shown with symbiotic zoanthids on the surface of the sponge, but zoanthids are not always present and should not be relied on for identification of the sponge taxa.

Taxonomy:

Homosclerophorida	Iotrochotidae	<i>Cribrochalina dura</i>
Plakinidae	<i>Iotrochota birotulata</i>	<i>Cribrochalina vasculum</i>
<i>Plakortis</i> sp. A-C	<i>Iotrochota cf. birotulata</i>	<i>Niphates digitalis</i>
Spirophorida	Mycalina	<i>Niphates erecta</i>
Tetillidae	Desmacellidae	Petrosina
	<i>Neofibularia nolitangere</i>	Phloeodictyidae
	Halichondrida	<i>Aka coralliphaga</i>
	Axinellidae	<i>Oceanapia bartschi</i>
	<i>Ptilocaulis walpersi</i>	Petrosiidae
Astrophorida	Dictyonellidae	<i>Xestospongia muta</i>
Geodiidae	<i>Scopalina ruetzleri</i>	Dictyoceratida
	<i>Svenzea zeai</i>	Irciniidae
	Halichondriidae	<i>Ircinia strobilina</i>
	<i>Topsentia</i> sp.	<i>Ircinia</i> sp. B-F
Hadromerida	Agelasida	Thorectida
Clionaidae	Agelasiidae	<i>Smenospongia</i> sp. A-B
<i>Cliona caribbaea</i>	<i>Agelas clathrodes</i>	Verongida
<i>Cliona delitrix</i>	<i>Agelas conifera</i>	Aplysinidae
<i>Cliona varians</i>	<i>Agelas dispar</i>	<i>Aplysina</i> cf. <i>archeri</i>
Spirastrellidae	<i>Agelas sceptrum</i>	<i>Aplysina</i> <i>cauliformis</i>
	<i>Agelas schmidti</i>	<i>Aplysina</i> <i>fistularis</i>
	<i>Agelas sventres</i>	<i>Aplysina</i> <i>lacunosa</i>
	<i>Agelas wiedenmayeri</i>	<i>Aplysina</i> sp. A-B
	<i>Agelas</i> sp. A-H	<i>Verongula</i> <i>gigantea</i>
Chondrosida	Haplosclerida	<i>Verongula</i> <i>rigida</i>
Chondrillidae	Haplosclerina	uncertain family
<i>Chondrilla</i> cf. <i>nucula</i>	Callyspongiidae	<i>Aiolochroia</i> <i>crassa</i>
<i>Chondrosia</i> sp.	<i>Callyspongia plicifera</i>	unidentified “keratose”
Poecilosclerida	<i>Callyspongia vaginalis</i>	“keratose” A-B
Microcionina	Niphatidae	
Microcionidae		
<i>Clathria schoenus</i>	<i>Amphimedon compressa</i>	
Raspailiidae		
<i>Ectyoplasia ferox</i>		
Myxillina		
Hymedesmiidae		
<i>Phorbas amaranthus</i>		



Plakortis sp. A



Plakortis sp. B



Plakortis sp. C

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Cinachyrella kuekenthali



Erylus sp.



Geodia neptuni



Cliona caribbaea



Cliona delitrix



Cliona varians



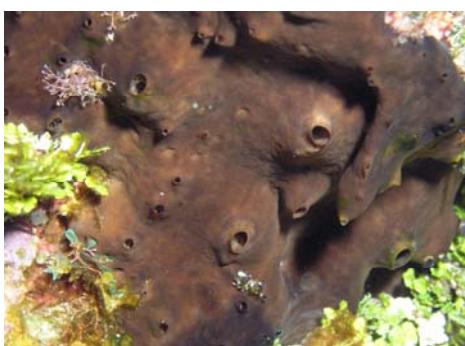
Spirastrella hartmani



Spirastrella sp. A



Spirastrella sp. B



Chondrilla cf. *nucula*



Chondrosia sp.



Clathria schoenus

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Ectyoplasia ferox



Phorbas amaranthus



Iotrochota birotulata
Parazoanthus swiftii



Iotrochota cf. birotulata
Parazoanthus swiftii



Neofibularia nolitangere



Ptilocaulis walpersi



Scopalina ruetzleri



Svenzea zeai



Topsentia sp.
Parazoanthus swiftii



Agelas clathrodes



Agelas conifera



Agelas dispar

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Agelas sceptrum



Agelas schmidtii
(and *Agelas dispar*)



Agelas sventres



Agelas wiedenmayeri



Agelas sp. A



Agelas sp. B



Agelas sp. C



Agelas sp. D
Parazoanthus puertoricense



Agelas sp. E



Agelas sp. F



Agelas sp. G
Parazoanthus puertoricense



Agelas sp. H
Parazoanthus puertoricense

Sponges of Navassa



Callyspongia plicifera



Callyspongia vaginalis



Amphimedon compressa



Cribrochalina dura



Cribrochalina vasculum
Epizoanthus cutressi



Niphates digitalis



Niphates erecta
Parazoanthus parasiticus



Aka coralliphaga



Oceanapia bartschi



Xestospongia muta

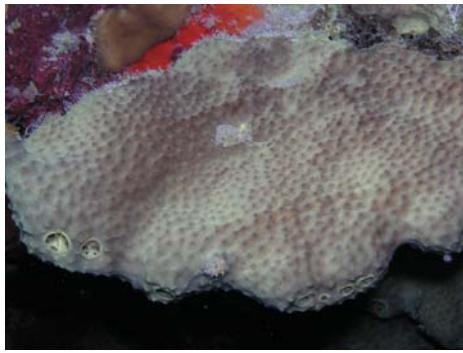


Ircinia strobilina



Ircinia sp. B

Sponges of Navassa



Ircinia sp. C



Ircinia sp. D



Ircinia sp. E



Ircinia sp. F



Smenospongia sp. A



Smenospongia sp. B



Aplysina cf. *archeri*



Aplysina cf. *archeri*



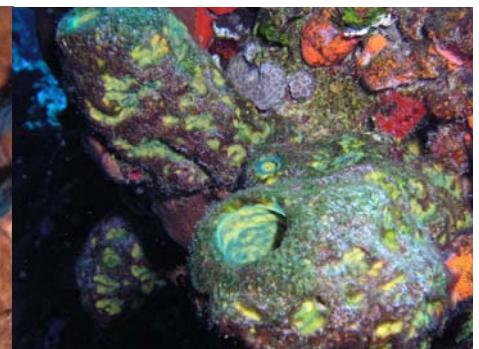
Aplysina *cauliformis*



Aplysina *fistularis*

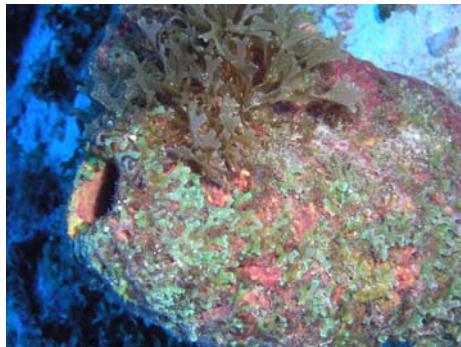


Aplysina *fistularis*



Aplysina *lacunosa*

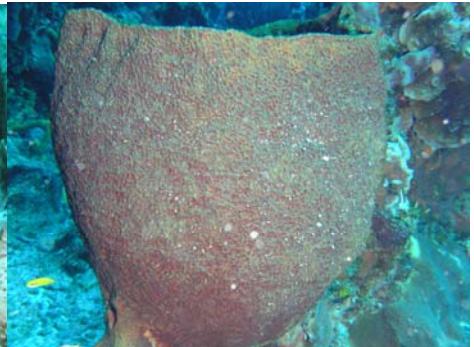
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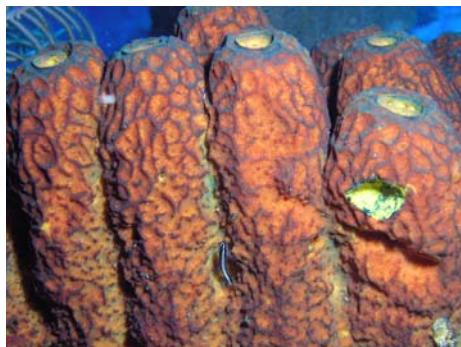
Aplysina sp. A



Aplysina sp. B



Verongula gigantea



Verongula rigida



Aiolochroia crassa



unidentified “keratose” A



unidentified “keratose” B