

Mediterranean Marine Science

Vol 22, No 1 (2021)

Vol 22, No 1 (2021)



Phenology of *Anemonia viridis* and *Exaiptasia diaphana* (Cnidaria: Anthozoa) from marine temperate ecosystems

GIOIA CRISTINA Di CAMILLO, SILVIA AROSSA, DANIELA PICA, BASTARI AZZURRA, FABRIZIO TORSANI, CARLO CERRANO

doi: [10.12681/mms.24600](https://doi.org/10.12681/mms.24600)

To cite this article:

Di CAMILLO, G. C., AROSSA, S., PICA, D., AZZURRA, B., TORSANI, F., & CERRANO, C. (2021). Phenology of *Anemonia viridis* and *Exaiptasia diaphana* (Cnidaria: Anthozoa) from marine temperate ecosystems. *Mediterranean Marine Science*, 22(1), 40–50. <https://doi.org/10.12681/mms.24600>

Phenology of *Anemonia viridis* and *Exaiptasia diaphana* (Cnidaria: Anthozoa) from marine temperate ecosystems

**Cristina Gioia Di CAMILLO, Silvia AROSSA, Daniela PICA, Azzurra BASTARI, Fabrizio TORSANI
and Carlo CERRANO**

Mediterranean Marine Science, 2021, 22 (1)

Table S1. Table summarizing the associated benthic fauna and flora throughout the year (from July 2013 to June 2014). Information about phylum and species name are provided.

Fauna and flora *Anemonia viridis*

Phylum	Species	Jul-13	Aug-13	Sep-13	Oct-13	Dec-13	Jan-14	Feb-14	Mar-14	Apr-14	May-14	Jun-14
Chlorophyta	<i>Bryopsis</i> sp. (J. V. Lamouroux, 1809)							x				
Rhodophyta	<i>Chondracanthus acicularis</i> (Roth) Fred-ericq, 1993					x	x					
Rhodophyta	Ecrusting Corallinaceae			x							x	
Ochrophyta	<i>Cystoseira cf. barbata</i> (Stackhouse) C. Agardh, 1820					x						
Ochrophyta	<i>Cystoseira</i> sp. (C. Agardh, 1820)	x	x						x	x	x	
Ochrophyta	<i>Dictyota dichotoma</i> (Hudson) J. V. Lamouroux, 1809	x	x		x	x	x			x	x	
Rhodophyta	<i>Ellisolandia elongata</i> (J. Ellis & Solander, 1786)				x	x						
Rhodophyta	<i>Gracilariaria bursa-pastoris</i> (S. G. Gmelin) P. C. Silva, 1952					x		x	x	x	x	
Rhodophyta	<i>Gracilaria</i> sp. (Greville, 18309)				x							
Rhodophyta	<i>Hypnea musciformis</i> (Wulfen) J. V. Lamouroux, 1809	x										
Cyanobacteria	Oscillatoriaceae (Engler, 1898)			x								
Myzozoa	<i>Ostreopsis ovata</i> (Fukuyo, 1981)		x	x			x					
Rhodophyta	<i>Polysiphonia</i> (Greville, 1823)		x									
Rhodophyta	<i>Rhodophyllis divaricata</i> (Stackhouse) Pa-penfuss, 1950	x	x									
Rhodophyta	<i>Rhodymenia ardissoni</i> (Kuntze) Feldmann, 1937	x	x									
Rhodophyta	<i>Titanoderma</i> sp. (Nägeli, 1858)	x		x		x	x	x		x	x	
Chlorophyta	<i>Ulva enteromorpha</i> (Le Jolis, 1863)									x	x	
Chlorophyta	<i>Ulva</i> sp. (Linnaeus, 1753)	x	x	x				x	x	x	x	
Porifera	<i>Cliona adriatica</i> (Calcinai, Bavestrello, Cuttone, Cerrano, 2001)					x						
Porifera	<i>Dysidea avara</i> (Schmidt, 1862)				x							
Porifera	<i>Sarcotragum spinosulus</i> (Schmidt, 1862)						x					
Porifera	Orange encrusting sponge							x				
Porifera	Yellow encrusting sponge				x					x		
Porifera	Red encrusting sponge	x										

Continued

Table continued

Phylum	Species	Jul-13	Aug-13	Sep-13	Oct-13	Dec-13	Jan-14	Feb-14	Mar-14	Apr-14	May-14	Jun-14
Porifera	<i>Tedania (Tedania)</i> (Gray, 1867)	x			x	x		x				x
Mollusca	<i>Conus ventricosus</i> (Gmelin, 1971)			x								
Mollusca	<i>Rocellaria dubia</i> (Pennant, 1777)	x	x		x	x	x	x	x	x	x	
Mollusca	<i>Mytilus galloprovincialis</i> (Lamarck, 1819)	x	x	x	x	x	x	x	x	x	x	
Mollusca	<i>Ostrea</i> sp. (Linnaeus, 1758)			x		x			x	x		
Mollusca	<i>Pholas dactylus</i> (Linnaeus, 1758)	x	x	x	x	x	x	x		x	x	
Arthropoda	<i>Balanus</i> spp. (Costa, 1778)			x								
Echinodermata	<i>Paracentrotus lividus</i> (Lamarck, 1816)				x							
Chordata	<i>Microcosmus</i> sp. (Heller, 1877)						x					
Chordata	<i>Phallusia fumigata</i> (Grube, 1846)						x				x	
Chordata	<i>Phallusia nigra</i> (Savigny, 1816)				x							

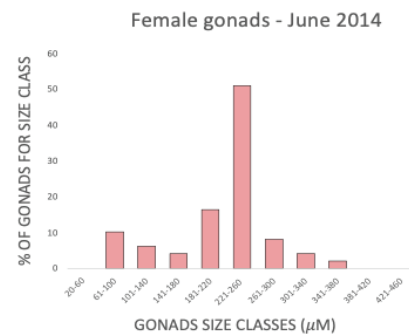
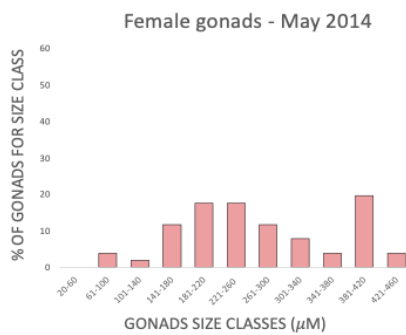
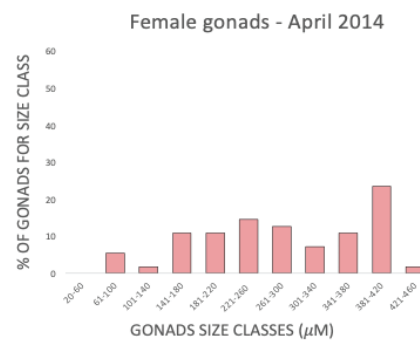
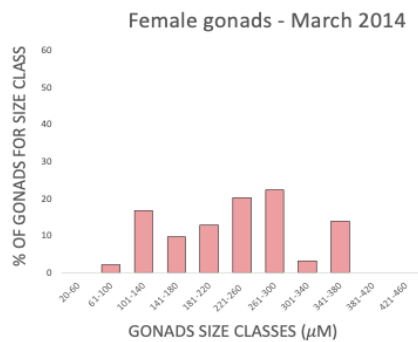
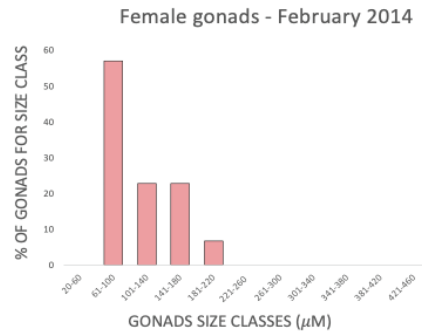
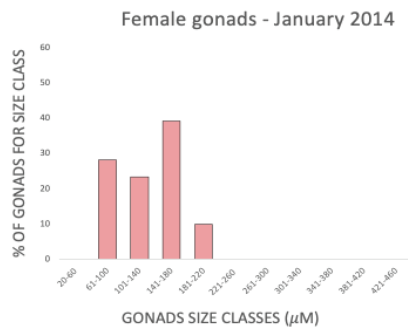
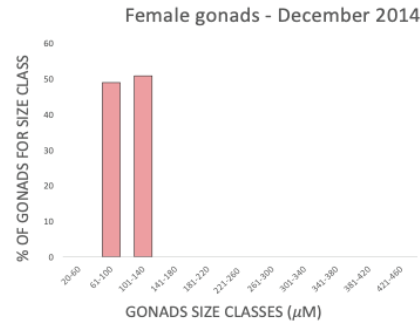
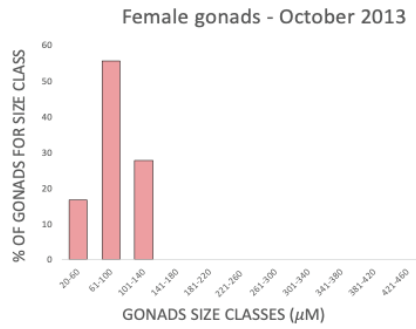
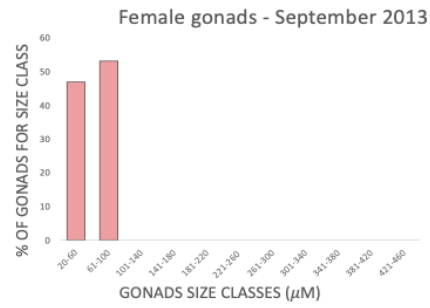
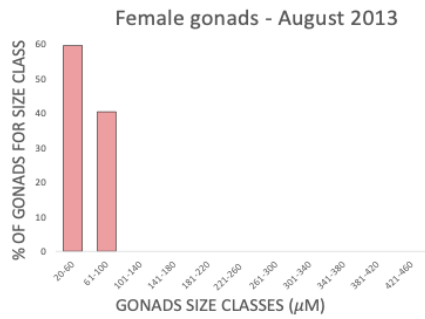
Fauna and flora *Exaiptasia diaphana*

Phyla	Species	Jul-13	Aug-13	Sep-13	Oct-13	Dec-13	Jan-14	Feb-14	Mar-14	Apr-14	May-14	Jun-14
Rhodophyta	<i>Alsidium corallinum</i> (C. Agardh, 1827)			x								
Rhodophyta	<i>Chondracanthus acicularis</i> (Roth) Fredericq, 1993			x								
Rhodophyta	Ecrusting Corallinaceae				x							x
Ochrophyta	<i>Cystoseira cf. barbata</i> (Stackhouse) C. Agardh, 1820	x										
Ochrophyta	<i>Cystoseira montagnei</i> var. <i>compressa</i> (Ercegovic) M. Verlaque, A. Blanfune', C. F. Boudouresque, T. Thibaut and L. N. Sellam, 2017				x							x
Ochrophyta	<i>Cystoseira</i> sp. (C. Agardh, 1820)			x						x		x
Ochrophyta	<i>Dictyota dichotoma</i> (Hudson) J. V. Lamouroux, 1809				x		x					x
Ochrophyta	<i>Dictyota implexa</i> (Desfontaines) J. V. Lamouroux				x							
Ochrophyta	<i>Dictyopteris polypoides</i> (A. P. De Candolle) J. V. Lamouroux, 1809	x		x	x							
Rhodophyta	<i>Ellisolandia elongata</i> (J. Ellis & Solander, 1786)				x							
Rhodophyta	<i>Graciliaria bursa-pastoris</i> (S. G. Gmelin) P. C. Silva, 1952	x				x	x		x	x		
Rhodophyta	<i>Hypnea musciformis</i> (Wulfen) J. V. Lamouroux, 1809				x							
Cyanobacteria	Oscillatoriaceae (Engler, 1898)		x	x								
Myzozoa	<i>Ostreopsis ovata</i> (Fukuyo, 1981)		x	x								
Rhodophyta	<i>Peyssonnelia</i> sp. (Decaisne, 1841)						x	x	x			
Rhodophyta	Ecrusting Peyssonneliaceae						x					
Rhodophyta	<i>Pterocladia capillacea</i> (S. G. Gmelin, 1768) Santelices & Hommersand, 1997	x										
Rhodophyta	<i>Rhodymenia ardissoni</i> (Kuntze) Feldmann, 1937				x							
Rhodophyta	<i>Schottera nicaeensis</i> (J. V. Lamouroux ex Duby) Guiry & Hollenberg, 1975						x		x			

Continued

Table continued

Phyla	Species	Jul-13	Aug-13	Sep-13	Oct-13	Dec-13	Jan-14	Feb-14	Mar-14	Apr-14	May-14	Jun-14
Ochrophyta	<i>Taonia atomaria</i> (Woodward) J. Agardh, 1848				x							
Rhodophyta	<i>Titanoderma</i> sp. (Nägeli, 1858)			x	x				x			x
Chlorophyta	<i>Ulva enteromorpha</i> (Le Jolis, 1863)							x	x	x		x
Chlorophyta	<i>Ulva</i> sp. (Linnaeus, 1753)	x			x							x
Porifera	<i>Aplysina aerophoba</i> (Nardo, 1883)			x	x		x	x	x			
Porifera	<i>Cacospongia</i> (Schmidt, 1862)						x					
Porifera	<i>Cliona adriatica</i> (Calcinai, Bavestrello, Cuttono, Cerrano, 2001)				x	x	x					
Porifera	<i>Chondrosia reniformis</i> (Nardo, 1847)								x			
Porifera	<i>Dysidea avara</i> (Schmidt, 1862)											
Porifera	<i>Haliclona (Halichlona) fulva</i> (Topsent, 1893)				x							
Porifera	<i>Sarcotragum spinolus</i> (Schmidt, 1862)					x						
Porifera	Orange encrusting sponge			x	x		x					
Porifera	Yellow encrusting sponge											
Porifera	Red encrusting sponge			x			x	x				
Porifera	Massive sponge							x				
Porifera	<i>Tedania (Tedania) anhelans</i> (Vio in Olivi, 1792)				x							
Porifera	<i>Tedania</i> sp. (Gray, 1867)	x			x	x	x					x
Cnidaria	<i>Cereus pedunculatus</i> (Pennant, 1777)					x						
Anellida	<i>Serpula vermicularis</i> (Linnaeus, 1767)					x	x					
Mollusca	<i>Rocellaria dubia</i> (Pennant, 1777)				x	x	x	x	x	x		x
Mollusca	<i>Hexaplex trunculus</i> (Linnaeus, 1758)					x						x
Mollusca	<i>Mytilus galloprovincialis</i> (Lamarck, 1819)	x	x	x	x	x	x	x	x	x		
Mollusca	<i>Ocinebrina</i> sp. (Jousseume, 1880)					x						x
Mollusca	<i>Ostrea</i> sp. (Linnaeus, 1758)					x	x					
Mollusca	<i>Pholas dactylus</i> (Linnaeus, 1758)					x	x		x	x		
Arthropoda	<i>Balanus</i> spp. (Costa, 1778)					x						
Chordata	<i>Ascidia sociale</i>						x					
Chordata	<i>Microcosmus</i> sp. (Heller, 1877)			x		x			x			
Chordata	<i>Phallusia fumigata</i> (Grube, 1846)		x	x			x					x
Chordata	<i>Phallusia nigra</i> (Savigny, 1816)											



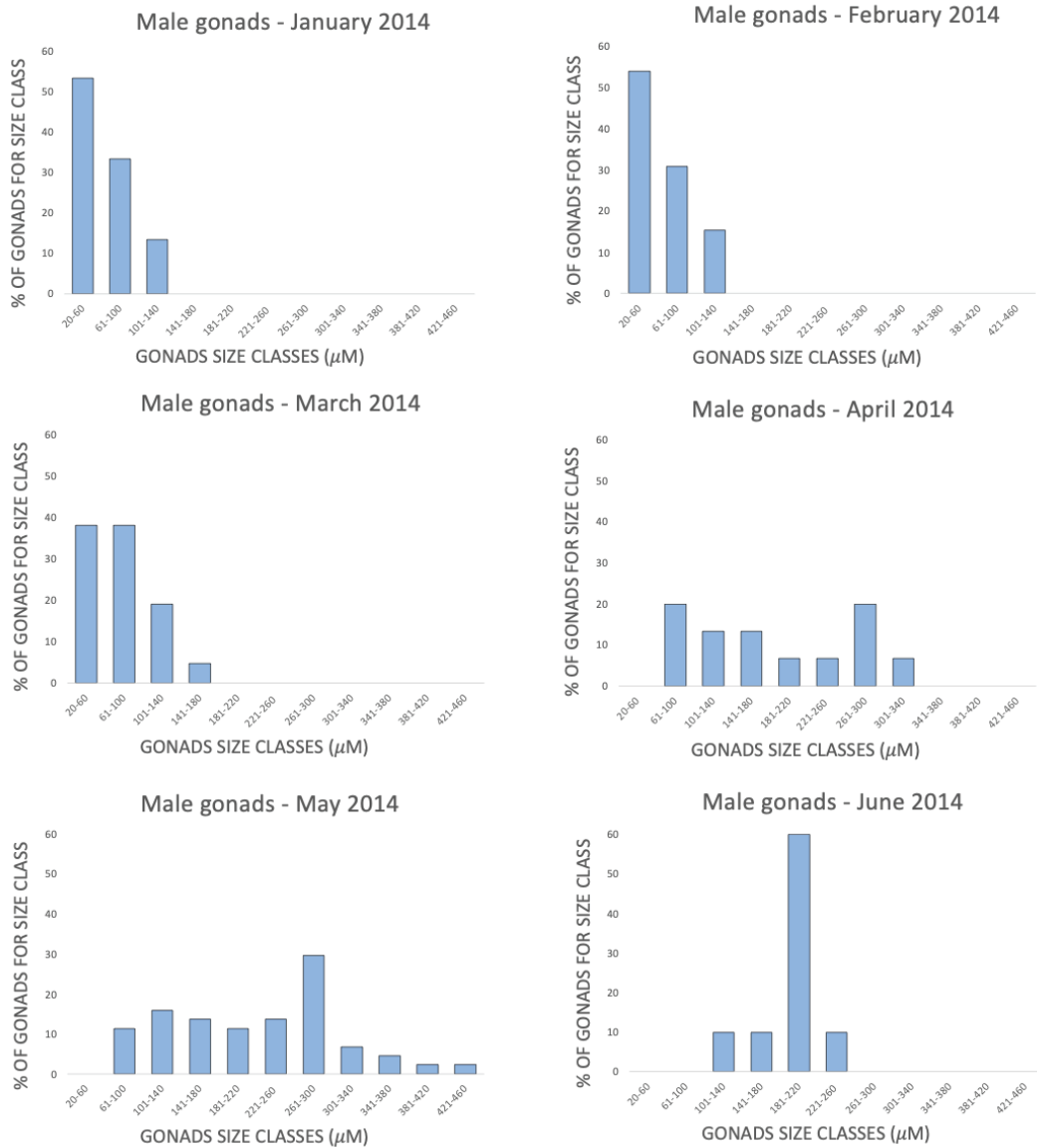


Fig. S2: Graphs summarizing the abundance of Female (pink) and Male (blue) gonads in the species *A. viridis* through the sampling year. X-axis indicates the gonad size (classified using size classes in μM) and y-axis indicates the percentage of gonads belonging to each size class.

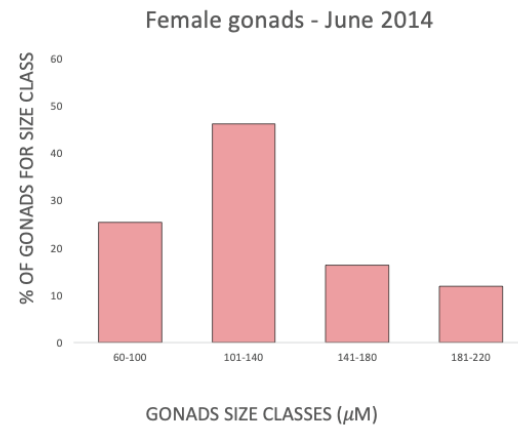
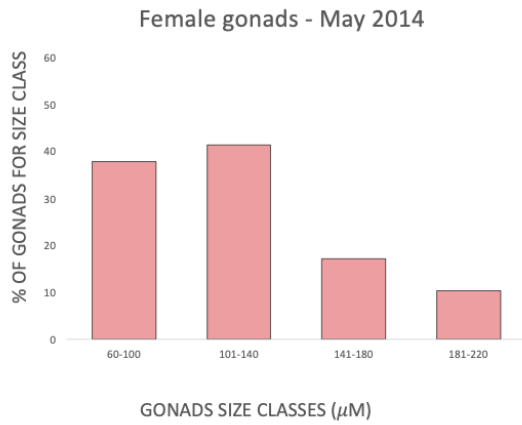
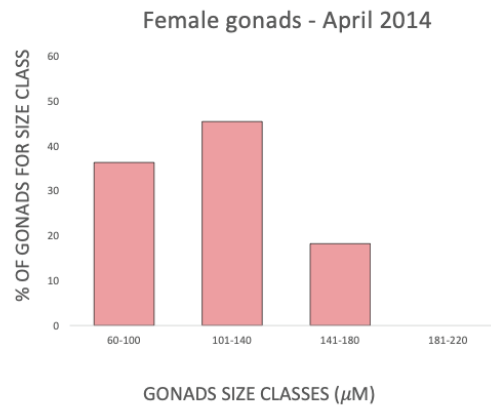
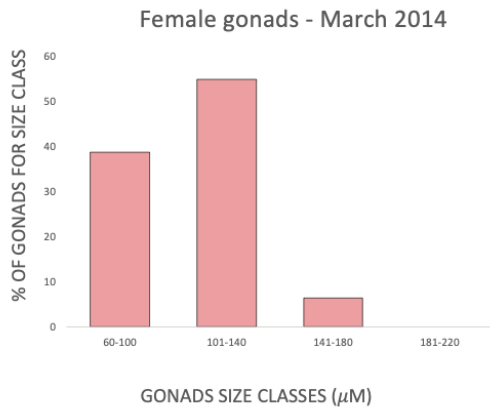


Fig. S3: Graphs summarizing the abundance of Female (pink) gonads in the species *E. diaphana* throughout the sampling year. X-axis indicates the gonad size (classified using size classes in μM) and y-axis indicates the percentage of gonads belonging to each size class.