

LIST OF THE KNOWN SPECIES OF RECENT ECHINOIDEA, SHOWING THEIR RANGE IN DEPTH, AND THEIR PRINCIPAL LOCALITIES;¹ AND GIVING AN INDICATION OF THE GEOLOGICAL DISTRIBUTION OF THE GENERA.

Explanation of Letters, &c.

B. "Blake" and United States Coast Survey Expeditions.
C. "Challenger" Expedition (English).
J. "Josephine" " (Swedish).

P. "Porcupine" Expedition (English).
Val. "Valorous" " (").
* Species discovered by the Challenger.
× Previously known species collected by the Challenger.

In the Bathymetrical Range.

—250 B. means that the species extends from the shore to 250 fathoms, and that the greatest depths have been determined by the B. = "Blake" Expedition.

410–500 C. gives the upper and lower limits as determined by the C. = "Challenger" Expedition.

[180 J. that the species has only been collected at that depth by the J. = "Josephine" Expedition, and that nothing further is known of its bathymetrical range.

	Range in Depth. Fathoms.	Principal Localities.	Tertiary.	Cretaceous.	Jurassic.
DESMOSTICHA, Hæckel. CIDARIDÆ, Müller. GONIOCIDARIDÆ, Hæckel. <i>Cidaris</i> , Kl.					
<i>C. metularia</i> , Bl.	—	{ Red Sea; Mauritius; Cape of Good Hope; East India Islands; Sandwich Islands; Fiji Islands. Panama; Gulf of California. South Carolina; Florida; Brazil; Cape Palmas.	Eocene; Miocene; Pliocene. Austria; Switzerland; Malta; Italy; India; Australia.	} Upper Chalk. Lower Chalk.	Jura; Lias. Trias.
<i>C. thouarsii</i> , Val.	—				
× <i>C. tribuloides</i> , Bl.	—250 B.				
<i>Dorocidaris</i> , A. Ag. <i>D. bartletti</i> , A. Ag. * <i>D. blakii</i> , A. Ag. * <i>D. bracteata</i> , A. Ag.	76–398 B. 158–450 B. 15–100 C.	Caribbean Islands. Florida; Caribbean Islands. Amboyna.	Eocene. North America; Austria.	} Chalk.	Jura.
× <i>D. papillata</i> , A. Ag.	—874 B.	{ Norway; Shetland Islands; Mediterranean; Canaries; Florida; Caribbean Islands; St Paul Rocks; La Plata; Philippines.			
<i>Phyllacanthus</i> , Br.					
× <i>P. annulifera</i> , A. Ag.	—28 C.	{ Australia; Philippine Islands; Torres Straits.	Nummulite. India; Australia; Malta; France; North America.	} Chalk.	Oolite (<i>Rhabocidaris</i>).
× <i>P. baculosa</i> , A. Ag.	—102 C.	{ Red Sea; Zanzibar; Mauritius; Philippines.			
<i>P. dubia</i> , Br.	—	{ Zanzibar; Bonin Islands; Australia.			
× <i>P. gigantea</i> , A. Ag.	—	{ Sandwich Islands; Mauritius.			
<i>P. imperialis</i> , Br.	—	{ Red Sea; East India Islands; Australia.			
× <i>P. verticillata</i> , A. Ag.	—8 C.	{ Society Islands; East India Islands; Australia; Sandwich Islands; Torres Straits.			
<i>Stephanocidaris</i> , A. Ag. <i>S. bispinosa</i> , A. Ag.	—	Australia; Malacca.			

¹ For detailed lists of localities see A. Agassiz, Revision of the Echini, part 1; Mem. Mus. Comp. Zool., vol. iii.; Ill. Cat., No. 7.