

Determined by Dr. David L. Meyer, Univ. Cincinnati

Specimen ID: USNM E17926		AC's Specimen ID: AC 7 Dried			
Species: <i>D. discoidea</i>		Date Examined: 11.02.03			
Was sample photographed before analysis?		No	After analysis? Yes		
Area	Variable	Value	Notes		
Centrodorsal	Centrodorsal Diameter	4.5			
	Centrodorsal Polar Diameter	4.0			
	Centrodorsal Height	0.6			
	Centrodorsal Shape	1	pentagonal, reduced		
	# Cirral Sockets	24			
	Cirral Socket Arrangement	4	one row		
	Cirral Socket Shape	2	oval		
Cirrals	Cirr. 1	# Cirral Segments	10		
		# Segments Ornamented	2		
		Cirral Length	6.9		
		3rd Cirral Segment Length	0.9		
		Antepenultimate Segment Length	0.4		
		Cirral Ornamentation Type?	1	single spines	
	Cirr. 2	# Cirral Segments	11		
		# Segments Ornamented	2		
		Cirral Length	6.4		
	Cirr. 3	# Cirral Segments	11		
		# Segments Ornamented	2		
		Cirral Length	6.3		
	Rays / Arms	I Br A, # Primibrachials on A Ray	E	2	
		II Br A, # Secundibrachials on A Ray	E	4	
		III Br A, # Tertibrachials on A Ray		0	
1st Triangular Brachial on A4		E1	7		
Brachials Spinose?			1	yes	
Arm Width at 1st Syzygy on A4		E1	1.4		
1st Syzygy Position on A4		E1	2(3)		
2nd Syzygy Position on A4		E1	7(8)		
3rd Syzygy Position on A4		E1	12(13)		
4th Syzygy Position on A4		E1	17(18)		
5th Syzygy Position on A4		E1	22(23)		
6th Syzygy Position on A4		E1	27(28)		
# Arms A			3	>3? broken off @ IIBr3	
# Arms B			4		
# Arms C			4		
# Arms D			4		
# Arms E			4		
Arm Length A4		A?	40		
Arm Length B4			55		
Arm Length C4			63		
Arm Length D4			66		
Arm Length E4			85		

Pinnules	PD	PD Comb Teeth Double or Single?	2	double
		PD Tube Feet Present?	0	absent
		PD # Segments	39	
		PD # Comb Teeth	9	
		PD Leng A1 D4	12.3	
	PP	PP Comb Teeth Double or Single?	2	double
		PP Tube Feet Present?	0	absent
		PP # Segments	41	maybe this is another PD?
		PP # Comb Teeth	10	
		PP Leng A1 E4	12.1	
	P1	P1 Comb Teeth Double or Single?	2	double
		P1 Tube Feet Present?	0	absent
		P1 # Segments	35	
		P1 # Comb Teeth	7	
		P1 Leng A1 D2	9.3	
	P2	P2 Comb Teeth Double or Single?	2	double
		P2 Tube Feet Present?	0	absent
		P2 # Segments	26	
		P2 # Comb Teeth	9	
		P2 Leng A1 B2	6.3	
	Distal	# Pinnules w/ Comb Teeth After 2nd Oral Pinn. on A1	2	
		Distal Pinnule # Segments	16	
		Distal Pinnule Spinose?	1	yes
		Distal Pinnule Leng A1	6.1	
		Distal Pinnule Arrangement	1	radial posture
	Sex?		unk.	
	# Regenerated Arms		2	

Overall sample quality?

A ray is broken off @ IIBr3 -- (4) is missing on both series. Found a division series tangled in other arms that indicates at least three arms were on the A ray.

Sample coloration?

Deep dun-colored

Able to orient sample to A ray?

Yes

Any notes on pinnules, etc.:

Fairly difficult to measure

Question -- do PP's always exist? It seems in this sample like they go straight from PD's to P1's.

Answer: No, PP's will not exist in specimens that don't have a tertibrach series -- the free pinnules will begin right after the PD.