

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

Specimen ID: USNM E18044 "-1" Acc #332276			AC's Specimen ID: AC 9a Dried	
Species: <i>D. rubiginosa</i>			Date Examined: 10.31.03	
Was sample photographed before analysis?			No	After analysis? Yes
Area	Variable		Value	Notes
Centrodorsal	Centrodorsal Diameter		3.7	
	Centrodorsal Polar Diameter		2.9	
	Centrodorsal Height		0.7	
	Centrodorsal Shape		1	pentagonal reduced
	# Cirral Sockets		30	
	Cirral Socket Arrangement		2	alternate rows
	Cirral Socket Shape		2	oval
Cirrals	Cirr. 1	# Cirral Segments	12	
		# Segments Ornamented	2	
		Cirral Length	8.8	
		3rd Cirral Segment Length	1.1	
		Antepenultimate Segment Length	0.4	
		Cirral Ornamentation Type?	2	single spine
	Cirr. 2	# Cirral Segments	12	
		# Segments Ornamented	2	
		Cirral Length	8.5	
	Cirr. 3	# Cirral Segments	12	
		# Segments Ornamented	2	
		Cirral Length	7.5	
Rays / Arms	I Br A, # Primibrachials on A Ray		2	
	II Br A, # Secundibrachials on A Ray		4	
	III Br A, # Tertibrachials on A Ray		0	
	1st Triangular Brachial on A4		7	
	Brachials Spinose?		1	yes
	Arm Width at 1st Syzygy on A4		1.2	
	1st Syzygy Position on A4	E3	2(3)	
	2nd Syzygy Position on A4	E3	10(11)	
	3rd Syzygy Position on A4	E3	15(16)	
	4th Syzygy Position on A4	E3	19(20)	
	5th Syzygy Position on A4	E3	25(26)	
	6th Syzygy Position on A4	E3	30(31)	
	# Arms A		4	
	# Arms B		4	
	# Arms C		5	
	# Arms D		4	
	# Arms E		4	
	Arm Length A4		15.3	badly broken
	Arm Length B4		70	possibly unbroken
	Arm Length C4		55	
	Arm Length D4		65	
	Arm Length E4		95	

Pinnules	PD	PD Comb Teeth Double or Single?	2	double
		PD Tube Feet Present?	0	absent
		PD # Segments	33	
		PD # Comb Teeth	11	
		PD Leng A1	11.1	
	PP	PP Comb Teeth Double or Single?	2	double
		PP Tube Feet Present?	0	absent
		PP # Segments	31	
		PP # Comb Teeth	12	
		PP Leng A1	8.2	
	P1	P1 Comb Teeth Double or Single?	2	double
		P1 Tube Feet Present?	0	absent
		P1 # Segments	32	
		P1 # Comb Teeth	11	
		P1 Leng A1	7.8	
	P2	P2 Comb Teeth Double or Single?	2	double
		P2 Tube Feet Present?	0	absent
		P2 # Segments	24	
		P2 # Comb Teeth	7	
		P2 Leng A1	5.4	
	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	6.4	
		Distal Pinnule Arrangement	1	radial posture
	Sex?	unk.		
	# Regenerated Arms	0		

Overall sample quality?

Sample coloration?

Able to orient sample to A ray?
Yes.

Any notes on pinnules, etc.:

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Specimen ID: USNM E18044 "-2" Acc #332276			AC's Specimen ID: AC 9b Dried	
Species: <i>D. rubiginosa</i>			Date Examined: 11.02.03	
Was sample photographed before analysis?			No	After analysis? Yes
Area	Variable		Value	Notes
Centrodorsal	Centrodorsal Diameter		4.1	
	Centrodorsal Polar Diameter		3.6	
	Centrodorsal Height		0.6	
	Centrodorsal Shape		1	pentagonal, reduced
	# Cirral Sockets		23	
	Cirral Socket Arrangement		4	single row
	Cirral Socket Shape		2	oval
Cirrals	Cirr. 1	# Cirral Segments	13	
		# Segments Ornamented	3	
		Cirral Length	10.5	
		3rd Cirral Segment Length	1.0	
		Antepenultimate Segment Length	0.6	
		Cirral Ornamentation Type?	2	single spines
	Cirr. 2	# Cirral Segments	14	
		# Segments Ornamented	2	
		Cirral Length	9.9	
	Cirr. 3	# Cirral Segments	13	
		# Segments Ornamented	2	
		Cirral Length	8.0	
Rays / Arms	IBr A, # Primibrachials on A Ray		2	
	IIBr A, # Secundibrachials on A Ray		4	
	IIIBr A, # Tertibrachials on A Ray		3	
	1st Triangular Brachial on A4		7	
	Brachials Spinose?		1	yes
	Arm Width at 1st Syzygy on A4	A1	1.1	
	1st Syzygy Position on A4	A1	2(3)	
	2nd Syzygy Position on A4	A1	9(10)	
	3rd Syzygy Position on A4	A1	14(15)	
	4th Syzygy Position on A4	A1	19(20)	
	5th Syzygy Position on A4	A1	24(25)	
	6th Syzygy Position on A4	A1	29(30)	
	# Arms A		8	
	# Arms B		7	
	# Arms C		7	
	# Arms D		5	
	# Arms E		7	>7? one division series broken
	Arm Length A4	A6	125	possibly unbroken
	Arm Length B4		48	broken
	Arm Length C4		118	possibly unbroken
	Arm Length D4		48	regenerated
	Arm Length E4		109	possibly unbroken

Pinnules	PD	PD Comb Teeth Double or Single?	2	double	
		PD Tube Feet Present?	0	absent	
		PD # Segments	45		
		PD # Comb Teeth	12		
		PD Leng A1 D5	12.5		
	PP	PP Comb Teeth Double or Single?	2	double	
		PP Tube Feet Present?	0	absent	
		PP # Segments	40		
		PP # Comb Teeth	12		
		PP Leng A1 D5	10.2		
	P1	P1 Comb Teeth Double or Single?	2	double	
		P1 Tube Feet Present?	0	absent	
		P1 # Segments	30		
		P1 # Comb Teeth	10		
		P1 Leng A1 E4	7.2		
	P2	P2 Comb Teeth Double or Single?	2	double	
		P2 Tube Feet Present?	0	absent	
		P2 # Segments	24		
		P2 # Comb Teeth	10		
		P2 Leng A1 E4	4.0		
		# Pinnules w/ Comb Teeth After 2nd Oral Pinn. on A1		2	
	Distal	Distal Pinnule # Segments		18	
		Distal Pinnule Spinose?		1	yes
		Distal Pinnule Leng A1		6.5	
		Distal Pinnule Arrangement		1	radial posture
	Sex?		unk.		
	# Regenerated Arms		4	>4?	

Overall sample quality?

Some arms actually whole -- in pretty good shape

Sample coloration?

Golden-brown with pale pinnule tips -- black stripe along "back" of arms

Able to orient sample to A ray?

yes

Any notes on pinnules, etc.:

Tegmen is pushed over oral pinnules on C & D, OP on A & B are tangled and covered by regenerating E6 and E7. Used OP on E2 & E3. Distal pinnules are orange-brown with distinct light/white tips.

Keels on P1 & P2