Line Number : 32 Year : 1981 gouge measurements in meters

SEGMENT	Fathogram Measurements: Water Depth (meters)	Reflector "A"	Gouge Depth	Ridge Height	Sonograph Measurements: Gouge Width	Density E/D	Orientation (°T)	Sediment Cohesion	REMARKS
029	—	—	.5	1.0	15	95/109	139/104	S/N	Point 029 is not on Fathometer.
030	42.0	45.5	1.6	.8	17	72/78	136/101	S/N?	Possibly 2 subbottom reflectors (4+5)
031	41.2	46.0	1.9	1.2	15	89/97	133/098	T?	Gouging becoming rougher (sharper on sonar)
032	40.4	45.3	1.3	1.2	8	90/104	138/103	R/C?	Upper subbottom reflector surfaces. (4)
033	42.0	44.9	.9	1.4	10	98/102	131/096	R/C?	Gouges becoming smaller. subbottom reflector surfaces (5).
034	41.6	—	.5	1.6	11	96/100	129/094	R/C?	
035	40.0	47.7	.7	.8	15	105/103	121/086	R/C?	subbottom reflector begins (6)
036	39.4	42.4	1.4	.8	15	117/128	134/099	R/C?	reflector surfaces mid segment.
037	38.2	—	.8	1.3	13	122/149	143/108	R/C?	steeply (relatively) dipping reflectors (offshore)
038	38.0	—	1.0	1.3	17	140/146	131/096	R/C?	Steeply dipping reflectors.
039	37.1	—	1.5	1.2	8	151/148	122/087	R/C?	axis of fold at ~ point 039 - steeply dipping reflectors now dip other way (onshore)
040	35.9	—	.7	1.3	9	121/139	139/104	R/C?	steeply dipping reflectors
041	35.1	—	1.0	2.2	11	162/259	123/088	R/C?	4 meter shoal at mid segment.
042	32.1	—	.7	.6	23	155/248	159/099	S/N?	5.5 meter shoal at mid segment.
043	32.8	—	.7	1.0	12	124/179	155/095	R/C?	
044	31.0	—	.9	.8	9	148/142	103/093	R/C?	
045	31.3	—	.2	.4	19	64/64	091/081	S/N?	4.5 meter shoal at end segment. Asymetric-shape with steeper side offshore. STRANGE APPearance.
046	28.0	—	.7	.8	8	104/101	115/090	R/C?	
047	30.7	—	1.2	1.5	6	164/157	107/097	R/C?	
048	29.6	—	1.2	1.7	7	157/151	106/096	R/C?	
049	26.0	—	—	—	6	127/122	105/095	R/C?	no fathogram this segment.
050	21.7	—	.8	1.0	5	201/193	105/095	R/C?	
051	21.5	—							

Line Number : 33 Year : 1981 gouge measurements in meters

SEGMENT	Fathogram Measurements: Water Depth (meters)	Reflector "A"	Gouge Depth	Ridge Height	Sonograph Measurements: Gouge Width	Density C B	Orientation (°T)	Sediment Cohesion	θ = orientation λ = period T = transition REMARKS
000	6.4	—	<.2	<.2	2	8/11	152/157	N	N = non cohesive C = cohesive Range: 150m
001	8.5	—	<.2	<.2	25	11/12	137/142	N	sand waves λ 2.5m θ 005°
002	17.6	22.0	<.2	<.2	3	15/14	102/108	N	
003	18.2	21.5	.3	.4	5	103/100	115/120	T	break in slope - gougins heavier to seaward
004	22.2	—	.6	1.0	11	118/114	115/120	RC	
005	27.6	—	1.4	1.1	10	93/89	101/106	RC	
006	30.0	—	1.4	2.0	15	76/73	98/103	RC	
007	29.1	—	1.1	1.6	10	51/49	108/113	C(ex. on shoal)	Shoal / sand waves λ 1.5m θ 005°
008	30.4	—	1.4	1.3	11	107/103	111/116	RC	
009	41.5	43.0	1.6	1.7	5	78/75	100/105	RC	
010	36.7	40.5	1.0	.8	10	75/73	115/120	RC	
011	39.5	42.0	3.5	1.3	8	51/50	93/98	T ?	
012	43.0	46.0	3.0	.7	20	62/60	111/116	SN	Start of SUBDUED Gouge (appearance of outer line 32 type gouges)
013	45.0	47.6	2.2	1.5	10	66/63	105/110	SN	
014	44.5	50.0	3.2	1.7	12	68/65	110/115	SN	
015	47.0	50.5	1.5	1.7	10	34/33	122/127	SN	waves ? (funny bottom)
016	47.0	50.0	1.7	1.9	20	39/37	100/105	SN	
017	46.5	50.5	2.5	1.5	10	44/58	30/35	SN	
018	46.5	52.0	1.7	1.2	15	42/40	105/110	SN	
019	49.5	52.0	2.5	1.2	25	33/44	150/155	SN	
020	49.0	52.0	1.8	1.0	20	39/38	115/120	SN	
021	50.5	54.6	1.7	.9	45 (?)	13/19	26/31	SN	finger waves
022	52.5	54.3							END LINE

Line Number : 34 Year : 1981 gouge measurements in meters

	Fathogram Measurements				Sonograph Measurements				
SEGMENT	Water Depth (meters)	Reflector "A"	Gouge Depth	Ridge Height	Gouge Width	Density E-D	Orientation (°T)	Sediment Cohesion	REMARKS
000	40.2	—	2.0	2.0	15	45/43	76/104	RC	
001	38.0	41.0	3.0	5.0	20	84/81	72/108	RC	
002	35.0	39.0	2.1	2.2	12	138/135	85/95	RC	
003	32.8	37.5	2.0	1.2	8	174/167	73/107	RC	33 m bench
004	39.0	42.0	1.6	1.2	20	68/65	70/110	RC	infilled gouges? up other side of bench (depression)
005	35.5	41.5	1.6	1.0	12	94/90	78/102	RC	
006	32.6	39.0	2.3	1.5	10	90/86	71/109	RC	
007	32.5	36.0	1.8	1.2	10	147/144	86/94	RC	
008	28.5	33.5	2.3	1.5	10	186/182	60/120	RC	2° gouge θ = 74°
009	27.0	31.5	2.3	1.6	8	169/164	65/115	RC	
010	26.0	30.5	1.0	1.1	5	196/188	72/108	RC	
011	23.5	28.0	1.2	1.1	5	315/306	66/114	RC	
012	20.3	27.0	<.4	<.4	7	216/207	72/108	RC	First reflector surfaces 2m shoal w/gouging scenario, 2nd refector appears!
013	19.4	24.2	<.3	<.4	5	125/126	54/126	C	~30sec SS record missing, not taken into density account.
014	17.6	20.0	<.2	<.2	8	58/60	48/132	T	
015	15.2	—	<.2	<.2	3	46/46	56/124	N	breaks in SS record
016	12.6	—	<.2	<.2	2	8/13	20/160	N	
017	9.9	—	<.3	<.2	2	9/11	36/144	N	
018	9.8	—	<.2	<.2	2	7/11	20/160	N	
019	5.5	—							END LINE

Line Number : 35 Year : 1981

gouge measurements in meters

SEGMENT	Fathogram Measurements: Water Depth (meters)	Reflector "A"	Gouge Depth	Ridge Height	Sonograph Measurements: Gouge Width	Density C/D	Orientation (°T)	Sediment Cohesion	REMARKS
000	1.6	—	—	—	—	0/0	—	N	Range: 150m
001	4.0	7.0	<.2	<.2	2	7/7	117/117	N	
002	11.7	15.2	<.3	<.3	5	15/15	120/120	N	Funny bottom windows (Cohesive) in non cohesives.
003	13.0	18.0	<.3	<.3	7	16/16	124/124	N	hi relief in subbottom
004	14.8	19.0	<.3	<.3	5	13/13	117/122	N	
005	16.0	19.5	<.3	<.3	2	13/12	103/108	N	
006	16.5	21.0 (?)	<.3	<.3	2	25/36	155/160	N	
007	16.5	19.5	<.3	<.3	2	49/48	121/126	N	seaward dipping stratified section truncated at seafloor (erosional) - no holocene.
008	18.6	24.5	<.3	<.3	5	70/68	115/120	N	
009	20.1	24.0	<.3	<.3	6	74/72	115/120	N	gouges appear infilled?
010	21.5	27.5	.4	.8	7	133/128	110/115	T	
011	22.2	—	.7	.7	7	188/196	132/335	C	gouges are fresh looking.
012	21.5	—	.5	.8	7	229/238	132/335	C	NiU gouge, to caught in the act
013	24.2	29.5	.7	.5	7	180/182	124/129	C	
014	26.7	33.5	.7	.8	8	136/133	121/126	C	
015	28.2	—	1.2	1.3	5	133/134	124/129	C	
016	~30.0	—	1.0	.8	7	122/118	114/119	C	
017	32.0	36.6	1.0	1.2	9	125/121	113/118	C	
018	32.7	38.0	1.0	1.0	7	134/139	128/133	C	
019	33.6	40.0	.7	.7	6	110/114	128/133	C	
020	35.5	41.8	.6	.8	10	132/137	130/135	C	
021	35.7	42.5	.5	.7	15	71/70	119/124	C	
022	38.5	42.5	.8	.5	7	60/58	112/117	C	change course 1/12/82
023	39.4	—	.6	.6	12	59/72	36/260	R C	
024	39.5	42.5 (?)	.4	.4	10	53/76	24/270	R C	
025	38.5	43.0	.4	.5	12	90/94	50/240	R C	
026	37.0	41.0	.6	1.2	12	95/93	60/120	R C	
027	36.5	40.2	.8	1.0	20	105/102	65/125	R C	
028	35.7	38.5	1.4	1.0	10	141/137	63/123	R C	

Line Number : 35 (cont) Year : 1981 gouge measurements in meters

	Fathogram Measurements				Sonograph Measurements				
SEGMENT	Water Depth (meters)	Reflector "A"	Gouge Depth	Ridge Height	Gouge Width	Density C / D	Orientation (°T)	Sediment Cohesion	REMARKS
029	33.5	37.7	1.0	1.0	15	165/162	60/300	R C	strong sub-bottom
030	30.6	36.2	1.1	1.0	8	146/143	62/302	R C	
031	28.0	33.8	2.0	.8	10	182/177	66/306	R C	
032	26.7	32.0	1.0	.8	7	212/208	58/298	R C	sub-bottom coming up
033	25.5	29.5	1.0	.7	5	185/179	65/305	R C	
034	22.5	—	.7	.6	5	185/179	66/301	R C	
035	21.5	—	.5	.7	7	158/155	62/302	R T	
036	20.0	—	.2	.5	3	135/140	52/292	S C	BSR(?) Change course 240°
037	19.0	—	<.2	<.2	15	65/62	72/312	S C	Patchy c/c 260
038	18.4	—	<.3	.7	7	17/18	52/312	S N	
039	15.8	—	<.3	.4	16	22/23	50/310	S N	Patchy
040	13.5	—	<.3	<.3	2	23/26	42/302	S N	
041	11.0	—							END LINE

Line Number : 36 Year : 1981

gouge measurements in meters

SEGMENT	Fathogram Measurements: Water Depth (meters)	Reflector "A"	Gouge Depth	Ridge Height	Sonograph Measurements: Gouge Width	Density (L/D)	Orientation (°T)	Sediment Cohesion	150m range REMARKS
000	5.0	—	<.2	<.2	1	2/3	21/78	S N	funny bottom (stiff clay) & sand (?)
001	7.3	—	—	—	—	0/0	—	S N	
002	9.2	—	<.2	<.2	1	1/1	64/121	S N	funny bottom
003	12.3	—	<.2	<.2	1	10/11	44/101	S N	
004	13.7	—	.3	.3	4	26/25	75/110	S N	
005	15.6	—	<.3	<.2	4	34/35	50/107	S N	Gouging in subbottom ; sand gouging
006	16.9	—	.3	.3	4	25/25	55/112	S C	
007	17.7	—	.2	.2	7	78/79	55/112	S C	
008	18.5	—	.2	.3	5	23/23	62/112	S N	
009	20.1	—	<.2	<.2	5	50/49	62/112	S N	
010	21.2	—	.2	.3	6	80/92	40/89	S N	
011	21.6	—	.2	.4	6	126/137	43/114	R C	
012	22.8	—	.5	.5	10	196/204	52/111	R C	1 m shoal/bench- gougins heavier to seaward
013	26.2	—	1.2	1.1	8	176/172	118/143	R C	
014	—	—	.6	.6	5	109/105	102/127	R C	
015	30.5	33.5	1.0	1.2	5	119/120	123/148	R C	gouges appear SUBDUED.
016	34.0	37.2	.7	.5	5	92/90	120/145	R C	
017	34.0	39.5	1.0	1.0	8	69/66	105/130	R C	
018	35.5	40.2	.6	.4	6	82/80	118/143	R C	
019	35.6	40.5	.8	1.3	7	102/102	90/115	R C	
020	35.7	39.8	.8	1.0	6	111/108	117/142	R C	
021	36.5	41.0	.6	.8	5	136/131	70/138	R C	
022	38.4	40.0	.8	.5	6	89/86	65/120	R C	gouges appear fresh again.
023	39.5	42.0	1.5	1.4	10	79/76	118/278	R C	undulating sub.b
024	37.1	39.1	1.4	.9	10	99/100	125/285	R C	
025	35.6	39.0	.4	.5	5	181/183	125/285	R C	
026	34.5	39.0	.7	1.6	8	186/188	125/285	R C	
027	34.4	38.0	.8	.9	8	165/190	138/298	R C	
028	34.2	40.0	.7	.6	12	164/179	135/298	R C	

Line Number : 36 (con't) Year : 1981 gouge measurements in meters

SEGMENT	Fathogram Measurements: Water Depth (meters)	Reflector "A"	Gouge Depth	Ridge Height	Sonograph Measurements: Gouge Width	Density C / D	Orientation (°T)	Sediment Cohesion	Range 150 m REMARKS
029	34.2	39.0	.6	.5	16	118/119	124/284	RC	CS 160°
030	34.2	39.0	.6	.5	12	157/159	125/285	RC	
031	33.8	39.0	.4	.4	7	152/158	132/292	RC	
032	33.6	37.7	.8	.4	7	174/181	128/288	RC	
033	33.2	36.5	.6	.4	5	175/177	123/283	RC	extrapolation (140 gouges in 5/4 distance)
34	31.6	?	.8	.6	7	180/220	145/305	RC	"
35	30.5	—	1.2	.8	8	282/324	140/300	RC	
36	29.5	—	.5	.5	12	235/244	130/290	RC	many multi gouges ↓
37	27.0	—	.5	.4	12	310/301	115/275	RC	
38	26.3	—	1.0	.9	10	269/272	124/184	RC	
39	27.3	—	.4	.5	10	202/198	120/180	RC	
40	24.7	—	.3	.3	6	188/190	126/186	RC	2 m bench
(41) Not real	24.3	—	—	—	—	—	—	—	stop for sample 1536-1546
42	23.7	—	.4	.2	7	229/302	152/312	RC	outcrop stiff silty clay?
43	22.2	—	<.3	<.3	5	169/164	115/287	RC	C/C 172°
44	21.5	—	.3	.5	7	154/151	120/292	RC	
45	19.6	—	.7	.4	5	135/132	122/282	RC (T)	streaked scour? C/C 160-165°
46	18.8	—	<.2	<.2	3	53/54	127/287	SN	2 m bench - gouging heavier to seaward
47	17.5	—	<.2	.4	4	33/36	135/300	SN	
48	17.0	—	.2	.3	6	64/67	132/297	SN	
49	14.5	—	.2	.4	4	68/83	145/310	SN	
50	12.5	—	.3	.2	5	42/67	162/327	SN	
51	11.4	—	.3	<.2	3	119/114	108/273	SN	
52	7.2	—							END LINE

Line Number : 37 Year : 1981 gouge measurements in meters

SEGMENT	Fathogram Measurements: Water Depth (meters)	Reflector "A"	Gouge Depth	Ridge Height	Sonograph Measurements: Gouge Width	Density	Orientation (°T)	Sediment Cohesion	REMARKS
000	8.0	—	.2	.2	3	24/25	132/132	S N	RANGE 150 m
001	13.9	—	.3	.5	4	141/147	50/50	S N	(Break in S/S record) (Winding)
02	15.6	—	1.0	.7	5	196/192	120/120	S N	
03	17.2	—	.7	.9	7	199/195	120/120	S N	
04	19.5	—	1.0	1.0	6	182/177	124/124	S N	
05	20.6	—	.9	.7	5	198/190	108/108	S N	
06	21.7	24.0	1.1	1.1	7	171/166	124/124	S N	
07	23.2	25.3	1.7	1.1	6	191/187	~120/120 ?	R C	winding
08	23.8	26.5	2.5	1.0	18	211/205	115/115	R C	
09	25.2	28.5	1.3	1.2	6	127/123	114/114	R C	
10	25.5	29.0	2.0	1.5	9	122/117	100/100	R C	
11	27.0	30.0	1.7	1.6	8	151/145	110/110	R C	
12	28.2	32.6	2.4	1.8	8	165/158	112/112	R C	
13	28.0	31.6	2.0	1.3	6	93/91	121/121	R C	
14	29.0	33.8	2.6	1.4	13	156/150	120/120	R C	
15	29.5	33.0	2.0	1.5	—	—	—	—	NO SONAR
16	30.7	33.3	1.6	1.2	10	132/137	130/130	R C	C/C 270°
17	31.5	34.0	1.7	1.0	12	134/154	38/308	R C	C/C 320°
18	31.7	34.0							Circling to end line

Line Number : 38 Year : 1981

gouge measurements in meters

SEGMENT	Fathogram Measurements: Water Depth (meters)	Reflector "A"	Gouge Depth	Ridge Height	Sonograph Measurements: Gouge Width	Density C/D	Orientation (°T)	Sediment Cohesion	REMARKS
000	5.5	—	<.2	<.2	1	2/3	25/63	S N	Range 150m
001	9.7	—	<.2	<.2	1	6/7	42/80	S N	ripples
002	11.6	—	<.2	<.2	1	33/110	0°/38°	S N	c/c 038° θ=139°T λ=3m h=<.2
003	14.2	—	.2	<.2	4	61/98	21°/59°	S N	truncated beds
004	16.6	—	<.2	<.2	5	91/105	42/80° (?)	S N	Beds } much winding
005	16.8	—	.3	.2	4	123/134	45/~75 (?)	S N	
006	18.7	—	.3	.4	5	145/142	120/158	T	Bed 5 c/c 38°
007	20.2	—	.3	.5	10	120/115	75/113	R C	
008	21.7	—	.5	.5	10	189/181	78/116	R C	Mud
009	22.0	—	1.0	1.0	15	259/249	78/116	R C	Bed 4
010	25.2	—	1.0	.7	12	185/178	78/116	R C	
011	27.2	—	1.7	1.5	10	170/172	55/93	R C	
012	28.0	—	2.0	1.4	10	158/152	78/116	R C	
013	28.6	—	2.0	1.6	8	120/115	72/110	R C	
014	30.0	—	1.7	1.3	50	129/124	80/118	R C	clay
015	31.0	—	1.8	1.7	10	151/145	105/143	R C	Bed 1 truncates at surface
016	32.3	35.0	1.7	1.0	10	144/138	75/113	R C	Bed 3 appears
017	32.5	35.6	1.7	1.0	12	133/128	112/150	R C	
018	33.0	36.5	1.5	1.0	12	170/163	76/114	R C	
019	34.0	36.4	2.0	1.0	15	171/164	105/143	R C	
020	35.0	38.5	3.2	2.1	25	87/84	110/148	S N	BSR(?) A second bed appears(?) Bed 2 SCOUR GOUGES SUBDUED
021	36.1	40.0	1.7	1.2	10	101/97	105/143	S N	
022	36.6	39.4	2.5	1.4	25	107/104	65/103	S N	c/c 038
023	36.4	40.0	2.8	1.7	25	148/145	85/123	S N	
024	37.5	40.7							Bed 1 mud