	12-13, 14, 17 May 2008		
SYSTEM SETU	12-13, 14, 17 May 2008 JP: Herbor Long Island Bays: Northport Harbor and Manhasset Bay ship layout and notes: R/V Terrapin		
	chin lovout and notice Bratton, Worley, Cross		
Terrapin	Ship layout and notes. R/V Terrapin		
15m	See other notes on		
	50m streamer		
	page		
	Øgps antenna		
	treamer cer depth: <u>~ 30 c m</u>		
	16		
drait onset en	tered in GPS? yes no		
streamer length:	15 m (1.5-m electrode spacing) sources: graphite, receivers(8):stain less		
UTC/Local time offs	set: <u>-4 hrs</u>		
Start x (negative distance between cable connection point and first electrode – will be negative value!!!): $-2m$			
	quisition software):		
(if command file ha	s electrode spacing correct, this should be 1. If the		
commond file yeads	rodes at 1m, this value will probably be 5 or 10) 12-13 May (withsc Sting) (AGI Sting ->13 May) array ad 5m, cmd, marinedd. cmd		
version of acquisitio			
electrode array conf	iguration (ie dipole-dipole): <u>dipole - dipole</u>		

	Northport Hurbor and Manhasset Bay
14-22 May	2008, Long Island Bays
SYSTEM SETUP: John	Bratton, Chuck Worley, VeeAnn
(lerrapin) An ship layout an	
Som	regan work in Northport
	tarbor on 12 May 2008
on the sting	W/ WHSC Sting Box and
TLT VEN JOS	15-m Strpamper
CW Cw seat	problems w/ Sting, got
Do It nav.	and shipped from AGI
	loaner shipped from AGI and shipped ours back; all 50-m data
1 streampr	
fathometer transducer depth: <u>~ 30 c v</u>	~
draft offset entered in GPS? yes	no
streamer length: 50 m (5	- m electrode spacing)
UTC/Local time offset: hrs	sources: graphite, receivers (8): stainles
Start x (negative distance between cable	connection point and first
electrode – will be negative value!!!):	connection point and first -15 m (GPs antenna @ same Point
Scaling factor (in acquisition software):	5
(if command file has electrode spacing c cmd file spaces electrodes at 1m, this val	
command file used: Marine D	D. cmd (marinedd. cmd)
version of acquisition software:	
electrode array configuration (ie dipole-	dipole): <u>dipole-dipole</u>

	19-22 May 2008 Great Fire Island National Sease playout and notes: Bratton, Wo National Park Service bo operated by NPS employ	rley, Cross at
fathometer transducer dep draft offset entered i streamer length: <u>50 w</u> UTC/Local time offset:	1	
electrode – will be negative Scaling factor (in acquisiti (if command file has elect cmd file spaces electrodes a	on software):	connection antenna offse
command file used:k version of acquisition softw electrode array configurat		- <u>-</u> !e

15 m Streamen -2.0 m Shackle to 1ª elect. 1.5 scaling factor. 50 m streame -15.0 m shuckler 5 m scaling factor A

Northport 5-14-08 15m BOAT HE -BAD? 133F1 BEAT He - Abin 133F2 ~ Rice Putty Laure Hore L34F1 Apt-Hse Nof-IsJulet. L35F1 136F1 Redo of LOGFFI L36FZ chamol between Posts1. L37F1 duncingblow in intet 638F1 L39.F1 Short lulet 50 h TO TOUR DO-K S-> N inside = out. de SAN TOU'S JOCK = POR LYOF1 L41 F1 SAN Ziszay L42F1 5-91 22 E-9W 143/1 W-9E 22 L44F1 WAR from (AMP PEZISto WAR Aupline Hor pour dub E-9W yould die Songucht dub E-9W yould die Standy lin LYSFI L46F1 L'IZFI N-75 into ha bou, West LY 8FI LYTFI 5-9 N IN TO OUT OF HIT E-AW ANS Buy 1,5011 1. FIFI

MAN ASSETT BAS 5/15/08 MBYC Sh LSZFI LONG-shore 253F1 Across how entrance. Kny AT - sinne habor Butter died - switched. L SUFI 254/FZ End of By out to otherside By town dock to otherside -55F1 L56F1 West sige -> Aune lise L57F1 658F1 Plane Born - ? isterside L5911 otherse Le - & TOWN RALL@Park L60P1 TOWNS KANAI - 9 atherside othersde - quickt chul- Pt. Wash H. Wash yc = stationary y& stand Stationer, y c - 9 EursiDE L61F1 1 L62F1 L63F1 L GYFI East side > CONDSI LESFI

5/16/08 MB7C 50m Rain out chand -> unables 1. 266F1 267F1 268F1 L 69/F/ L 7081

5/17/08 SAT 87 271 L71FI MBYC Boat Lound MBYL Flag Pole 172F( pwyc gs L73F1 LAUFI PWYC L75F1 176F1 Bch BCH-Private Sign Fresh H. D creek/Bridge L 77FI L78FI hock Here lang by Lous L7991 Tall Chings ou H2 0 L80F1 Weeds / BOAT FIRE L81F1 vecds / Concrete range L 82F1 L83F1 weeds Across heel of Bay 216 Zay at heel of bay to bulk head 1 L 84P1 L 85F1 L86FI Zig Zay Bulk heal 18791 from heel - weed oppositeste 18871 other side sof By Flag Ble 2 84F1 rock preak wall 90F1 Beach / repain hse 191 heach / Bout Hise w/s ater of L9281 Aig Brick Hye the an Beach Lgyp

L95F( Pebbles/Trush Dch other side & channel L96 F1 Beach head of cove LATEL Bod Bob's Airplane hange L99P1 Capi Ease Dock LIOOFI TOWS Dock/BT ramp LIEFI Assoc PIERL L102F( CONDO BULKhead L103F1 beach w/ asprey nest Boast Basin in slip Marina next to start ship LIOYFI LIOSFI L10671 LIG7FI TOWN Beach TOWNS Hop Muster Hoc - coma L108F1 4109F1 Loujes LIOFI

5/19/88 50m stream 5.0/-160 L120F1 Low Batt L120F2 restant Low Batt L120F3 jestent L121 L122 121 122 100

5/20/08 50m store. EST LIZYFI 0914 -9E L124F2 0942 Batt Low L/25F1 1046 -75 1105 -W LI 26F1 1128 - 7W LONG LIZ7FI 4128F1 1503 L129F1 1705 Hone CIZGEZ 1627 restant Buttlow IC F3 1631 Butt Low 11 FY 1651 Batt Low stopped @ 1654

40.69658 73.166 88 40 41.79 73 10.01

171 5/21/08 50m stream 132 LIBOFI for East and - 9 wort cal LIBOFI for East and - 9 wort cal LIBOF2 Dett Low (middle of Ch) LIDIFI Enowers END DIAG TO STATE South for edite In-LIB2FI mount shallows healing East. LIB2F2 Hog East - Low Back

50m Local Tine 5/2/08 2133F 0905 ous Hebr P3 L134 WEST along shore. 612477 Patt Z Along show FU Pat 1115 Dias 662681 Goil berg North L(37FI Going South

Mon., 12 May 2008 JB, AG, CW, VC travel Long Island SGP cold. meet ST3, LE, KK, JC, MC Field Activity # 08007, wind )ay#1 c londi Day#8 Northport Harbor, N 1500 - back to Brittania Manhasset Bay, + KK jeam) (south end of harbor), Great South Bay set up CRP gear In 06:45 - John Bratton, Chuck Worldy RN Terrapin 1645 - set out in Terrapin Advian Green, Vice Ann (CW+ 1B) to test Cross meet in N. Falmonth CRP gear, ran several and leave for Bridgeport Ferry (3 vehicles) Short transects w/ new 15-m streamen 100 - Leavelon terry for Port Jefferson, Long at plezometer site, Island Sound very close to high tide, terminated at beach Vough -1145 - artive Port Jeff, rte ~ 18:00 - back at Brilliania, 25A to Northport, offload gear, head to hotel (Hampton Inn, Commack 1/12:45 air Brittania Vacht Club, 21930 - dinner, then got get lunch, meet other Crew (Kroeger, Crusins, Casso, distributed sampling Coordinates from SB+LE Erban, Baldwin)@ for VC to plot, CW James St. pretometer charged batteries, VC transect site, set up processed initial CRP data Scattold Scale: 1 square = Scale: 1 square =

JB, CW, VC - CRP 1485, 13 May 2008 Northport SGD NC/LE/SB/AG@ Survey, Cool: \$08.007 Day # Z piezo transect, (505 to 605) KK heading home strong N wind 0700- meet at hotel lobby, w/ samples; C. Ruppel + student in P.M. (Ruth discuss sampling plans, 07.45 - JB/CW/VC leave for from Tracking # 735607223230 Story Northport, swap 10:30 Fed Ex arr. batteries for charging 09:45 - head out on water More problems w/ String Box in PM- contacted manufacturer w/ 15-m streamer to run short transects. (AGI), and arranged for loaner down Ershore, very. to be FedEred to hotel minidi 1700 - back at Britania Y.C., 10:45 - trouble shooting problems 1800 - helping piezometer with GPS signal to Super Sting box crew Greak down egot. 1130 - grounding problem ~ 1900 - leave for hotel isolated and fixed back on the water 1200 - GPS acting up again back to pier to fix VC crew prepping radon raft for Janich Scale: 1 square = Scale: 1 square =

NB/CW/VC-CRP Weds., 14 May 2008 Northport SGD JC/AGIMC/SB/LE - piezos #08007 1/av #'3 CR + student - stationary resistivity Hun at King's Point to \$700 - meet at hotel, 5. after crossing month of coordinate sampling bay start live 54 plains, J.C. to do Ra Limes series w/ ~ 1800 - end CRP surveys for Stony Brook boat Northport, back to Piezo 0900 - set up scaffolds at transect site to help Piezo site and begin break down gear, including 000- CW giets loanier Sting@hold geophysical gear of CR's 13:30 - Start CRP surveys ~ 1930 - leave site for hatel. with loaver sting box boat at Northpoint. Yacht Club. 15-m transects down E. shore 13:45 - End Line 33 @ Vanderbit Boathouse, work down west shoke w/ 15-in Streamer transects to Stopping pt. from yesterday 445 - To Brittania V.C. to Change, streamers out 15.30 - RESIME CRP SWIVENS W: 50: m Streamer: Scale: 1 square = Scale: 1 square =

Manhasset SGD. \$08007 Day #4 0700-meet @ hotel, make plains for piezo sampling and changing CRP 12 Cation to Manhasset Bay (Port Washington) 0830 - pick up trailer @ Brittanía V.C., go to Northport Y.C. + pull Terrapin, drive to Pt. Washing ton 100 - check in at Manhasset Bay Yacht Club (MBYC) . coordinate aviraingements with dock master (Pete and person at dock house (Hugh), launch boat: at public ramp, Set up gear, Innich, coordisnate w/ Bay Constable (Mal) Scale: 1 square = \_

TB/CW Thurs. 15 May 2000 JC, AG, MC, at piezos. VC/LE/SB leave in AM 1345 - begin surveying w 50-in streamer @ South end of bay, glong NE shore 1440 - turn 5. Q. King's Pt. after crossing mouth of bay, start line 54 15.15 - turn at bottom of bay, Start line 55 along E. shore toward north 1630 - start line 58 @ seaplane hangar headed across, w ~18:30: - Finish surveying for the day, back at MBYC Scale: 1 square =

Fri., 16 May 2008 JB/CW Manhasset/Northport SGD @ Northport = cool, windy, Day #5 Vain all day JC/AG/MC #08007 ~ 18:30 - return to Pt. Washington ~ 0730 - head out for breakfast and MBYC with full and start surveying w/ 50-m streamer, finish crew and all gear, done for the day lasti several lines 1/200- Northport crew grilves w/ two vehicles and gear to offload @ MBYC.; requests assistance with breaking down Scaffold, piezos, and raft @ Northport; B/CW pull boat and return to Northport 1400 -: launch boat at Northport Yacht Club and start lill tai pulling offshore pitto and scaffold; broak down Vadon vaft and Pull anchors, load gear into trailer pull boat, kayak lashed in Scale: 1 square = \_ Scale: 1 square =

Manhasset JGD #08007 Day #6 0700- discuss plans, move gear launch boat 29:45 - cast off for AM perp Surveys w/ 15-m : Streamer glong. Espore ! IC crew setting up tor new TIRES transect at MBYC 1100 - working 5. and of bay and w. shore with perpendicular 15-m transect, then across mouth to NE/E shores 1500 - back at MBYC, End CRP work; Strip boat. begin prozo sampling at MBYC (JB/CW'E site near bulk head), set up scaffold for access at high tide; JC set up Rn time series, piezos on Scale: 1 square = floating docks fresh

JB/CW Sat. 17 May 2008 VC/AG/MC on shore Sunny to PC LE/SB return late PM: windy 16:00-1800 - collect giv screening Samples with piezo to 3m depth, water all briackish help break down gear for the day. 1900 - dome for day. Scale: 1 square =

Manhasset SGD Day #7 #08007 0800 - continue working on piezo sampling at " MBYC ; JB working w/ AG; JC W/ MC; SBILE running Rn + Ra samples; CW troubleshooting CRP gear and cleaning. out rehiele 1200 - JB/AG have collected samples @ 1,2,4 m, salinity decreasing gradually, continue Sampling down to fresh ~ 1400 - rain starts, continue Sampling discuss Sampling for age tracers N1745 - finish 7th sample. at bulkhead (7m) salinity down to 0.2; clear gear 1900 - VC+KK avrive; drop KK, JB w/ VC to new hotel to meet CW NOOD - Check In P. La Quinta Scale: 1 square = \_\_\_\_\_

JB/JC/CW/AG/MC/SB/LE Sun., 18 May 2008 KK/VC arrive - SUMNY WarminAM ~ 7:00 PM - rainy in PM, stopped raining N 5:00 PM Scale: 1 square =

Mon., 19 May 2008 JB/CW/VC clear sunny, Great South Bay SGD Back in Manhasset. Bay: JC/KK/MC/LE/AG/SB Cool (505), (1 st F/15. day) #08007 Day # 8 Strong W wind 0730- meet at hotel lobby 13:35 - running along Fire Island (La Quinta - Macarithur Airport) Start line #121 less rough Bohemia, NY), leave + 1400 - turn N. for another for Patichioque crossing, line #122 0815 - arrive National Park 41445 - end line #122, very. : Service Facility in. rough, caugut a line Patchoque meet with in prop. pulled in Patty Rafferty Mike strommer, end surveys. Bilecki, and Vordan for the day Rafael (boat driver) 1500 - back to Patchoque, unleading VC setting up navigation. gear processed data system, CW setting Vand transferred new. UP Survey gear. tata to VC. filled 10 00 - gear on board, nav. out boat data sheets charts down loaded, for last Several boat loading survey line files setups (Terrapin 50-m outo hav. laptop, men + 15- in and NPS 50- m lunch and water run. 1700 - I pave NPS site for the N1215- Cast off 12.30 - start line 120, 5. across day bay from Patchoque to. JFB-Watch Hill 1335 - end of line, turn. E. Scale: 1 square = Scale: 1 square = \_\_\_\_

Tues., 20 May 2008 VB/CW/VC Great South Bay SGD JR/KK-NPS overcast, 50s, #08007 Day # 9 (2nd FIIS Day) med SW wind 1150 - passing Bellport 0800- Arrive at NPS facility, Reach channel 1220 - battery died on laptop meet Jordan and new driver, Katie Kerr (Kaetlyn) with navigation chart, will run along Long Island. ho inverter, using paper charts and CRP shore to E in Am, then back to walong Fire L'ourance/handhield Island Garmin for Nav. 0915 - start first line (#124) 1250 - passing Watch Hill channel across Patchingine River month Several shell: fishermen raking clams from boats 1000 - rounding Howell's Pt. into Bellport Bay 1345- passing the Pines 1045 - End of line @ Wertherin 1405-passing Sailors Haven NWR, turn 5. glong 1500 - End of line at Fire Island E. end of bay, start Light, turn Nup West line #125 Channell for line # 128 1105 - End line, furn up channe 1600 - turn at Bayshore to NW along channely Duoy, start fine # 129 back toward Patchoque(E) start line # 126 1110 - passing John Boyle Island 1655 - batteries dead, and 1125- end ine #126, start line off beach at # 127 headed W. Nicoll Pit, end line, turn @ red busy #16 pull streamer 1815 - Offload gear leave NPS Scale: 1 square = \_\_\_\_ IFIS Scale: 1 square =

IB/CW 60s P.C. H. breeze VC on shore Great South Bay SGD: out of SW . JR/KK-NPS #08007 Day #16 (3rd Fills day) pm showers forecast 0730 - leave hotel for NPS 13:55 - Start W-Eline 0.300 - arrive NPS, meet JR. and KK 0900 - cast off transit to 16:30 - end of W-Eline E. End of bay to begin . axial survey lines 0940 - start F-W line ~ 1/3 of the way across bay from Long. Island # 130 10:15 - Aeviated from Course around 100 mid-bay Howell's P.t. 1045 - passing Patchoque, water tacility 7:15 - geat offloaded 11:08- Slow for crossing. leave site sailboat, wind Seas 1330 - epid. line: Hurin 5. to pick up next . W. to E line line to SE Sample salinity = 25.10 Scale: 1 square = measured in lab on 27 May W/ YSI sonde

14:10 - aground, deflected line: to Ny then veered back near Watch Hill, crossed 19 May transect line and 20 May FILS-parallel line close to end of line, also similarled batteries for string box; pulled streamer, transit to Patchoque NPS marine Scale: 1 square = \_

Weds. 21 May 2008

Great South Bay SGD #08007 Day # 11 (444 65B day) 0000 - meet at NPS docks. same boat, new driver, FS From WRD coming along to: day 0900- cast off! run first line out of channel, then shore parallel line to W to join end of last Vine from 20 May 1115 - turn at end of line #134 for Erossind to SE to Fire Island (line ± 135) 1200 - turn @ Point o' Woods for another crossing (S-N, line #136) 12.15 - lost Hy-Pak nov due to dead battery on handheld GPS = deviation in course 1240 - squall line with lightning Scale: 1 square = \_\_\_\_\_

JB/CW Thurs, 22 May 200 VC heading home 50s, cloudy, NPS driver = SW wind Fernando Villalba Abo Fred Stumm, WRD-Coram 1250 - End of crossing line, shut down surveying and transit to next Crossing line (N-S) 1310- start line at Green Harbor (#137) 1345 - end of Tine at Cherry Grove, turn back toward Patchoque (line #138) 1510 - End line at Patchoque (brief heavy rain on crossing), strip boat, pack up gear 1545 - leave NPS docks, return to hotel and check out, leave for home 1700 - board ferry @ Port Jefferson N2130 - avrive home END OF FIELD Scale: 1 square = ACTIVITY ITO 8007