

**Appendix A Contemporary foraminiferal absolute counts of dead (live) specimens including sample station information**

Transect Thunderbolt species name	Sample station number													
	1	2	3	4	5	6	7	8	9	10	11	12	13	14
<i>Arenoparella mexicana</i>	14(2)	20(2)	12(6)	10(4)	17(9)	19(15)	14(14)	19(15)	23(63)	38(73)	50(62)	20(56)	20(20)	26(17)
<i>Ammonia tepida</i>	1(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(3)	0(0)	0(0)	0(3)	0(0)	0(2)	0(3)	0(1)
<i>Ammobaculites crassus</i>	2(1)	4(0)	0(0)	4(2)	0(0)	0(0)	1(0)	5(0)	0(1)	2(0)	1(0)	0(0)	0(0)	0(0)
<i>Ammobaculites dilatatus</i>	80(7)	79(7)	91(11)	44(10)	15(5)	12(1)	21(2)	34(1)	6(0)	5(3)	17(1)	10(1)	8(2)	13(4)
<i>Ammosastuta inepta</i>	1(0)	0(0)	2(0)	0(0)	4(0)	2(1)	1(1)	0(0)	0(0)	6(0)	1(0)	0(0)	0(0)	0(0)
<i>Balticammina pseudomacrescens</i>	2(0)	0(0)	2(0)	0(0)	1(1)	5(8)	6(4)	3(0)	2(4)	3(4)	2(2)	4(4)	2(0)	4(2)
<i>Ammotium salum</i>	2(2)	5(1)	2(0)	2(2)	2(3)	4(1)	3(1)	6(1)	12(1)	9(5)	8(3)	6(4)	3(0)	2(2)
<i>Haplophragmoides spp.</i>	1(0)	0(0)	0(0)	0(0)	0(0)	18(8)	2(6)	0(0)	3(1)	4(0)	0(3)	0(0)	0(0)	2(1)
<i>Milliammina fusca</i>	67(11)	77(9)	67(19)	38(15)	21(35)	18(8)	12(25)	45(4)	78(23)	74(46)	89(29)	64(32)	77(31)	90(45)
<i>Jadammina macrescens</i>	2(1)	1(0)	0(0)	0(0)	0(0)	0(0)	2(0)	1(0)	1(2)	2(1)	0(1)	0(2)	0(0)	0(1)
<i>Tiphotrecha comprimata</i>	14(2)	8(1)	9(4)	9(4)	9(10)	19(33)	9(17)	10(5)	9(17)	24(15)	9(14)	7(14)	8(10)	14(9)
<i>Trochammina inflata</i>	7(0)	6(0)	8(2)	2(2)	8(2)	8(1)	11(0)	7(0)	3(5)	7(4)	4(1)	5(1)	2(2)	2(2)
<i>Textularia spp.</i>	1(0)	1(0)	0(0)	0(0)	0(0)	1(0)	0(0)	1(1)	5(0)	0(0)	3(0)	1(1)	0(0)	1(0)
<i>Reophax nana</i>	2(1)	3(1)	2(2)	0(0)	0(0)	0(0)	0(0)	1(0)	2(4)	1(1)	0(1)	2(0)	2(1)	1(2)
<i>Ammodisus</i>	0(0)	0(0)	2(0)	0(1)	1(0)	1(2)	0(0)	0(0)	1(0)	1(0)	2(0)	1(1)	1(3)	2(1)
<b>Elevation(m MTL)</b>	<b>-0.15</b>	<b>-0.07</b>	<b>-0.02</b>	<b>0.06</b>	<b>0.10</b>	<b>0.17</b>	<b>0.23</b>	<b>0.29</b>	<b>0.35</b>	<b>0.42</b>	<b>0.46</b>	<b>0.51</b>	<b>0.55</b>	<b>0.60</b>
<b>Salinity(‰)</b>	<b>25</b>	<b>21</b>	<b>20</b>	<b>20</b>	<b>20</b>	<b>21</b>	<b>20</b>	<b>25</b>	<b>25</b>	<b>20</b>	<b>20</b>	<b>25</b>	<b>25</b>	<b>25</b>

Transect Thunderbolt species name	Sample station number													
	15	16	17	18	19	20	21	22	23	24	25	26	27	28
<i>Arenoparella mexicana</i>	24(8)	23(20)	14(25)	12(5)	6(5)	3(3)	8(0)	29(8)	7(0)	4(1)	4(0)	1(0)	0(0)	0(0)
<i>Ammonia tepida</i>	0(2)	0(4)	0(0)	2(12)	0(4)	0(0)	0(4)	0(9)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)
<i>Ammobaculites crassus</i>	2(0)	3(0)	0(1)	1(1)	0(0)	0(0)	0(0)	1(0)	1(0)	0(0)	0(0)	0(0)	0(0)	0(0)
<i>Ammobaculites dilatatus</i>	17(2)	33(7)	34(6)	47(16)	26(15)	38(0)	33(5)	66(11)	83(0)	0(0)	0(0)	0(0)	0(0)	0(0)
<i>Ammosastuta inepta</i>	1(1)	1(1)	0(0)	0(0)	0(1)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)
<i>Balticammina pseudomacrescens</i>	0(4)	3(2)	4(1)	1(0)	0(0)	0(0)	4(0)	4(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)
<i>Ammotium salum</i>	2(4)	5(4)	5(9)	7(2)	6(2)	0(0)	0(0)	3(1)	4(0)	1(0)	0(0)	0(0)	0(0)	0(0)
<i>Haplophragmoides spp.</i>	2(1)	0(0)	0(0)	0(0)	0(0)	0(0)	2(0)	8(1)	14(0)	55(10)	86(13)	68(3)	111(15)	40(15)
<i>Milliammina fusca</i>	95(15)	115(42)	149(57)	122(34)	81(25)	51(1)	52(3)	108(10)	100(3)	20(0)	12(0)	6(0)	2(0)	0(0)
<i>Jadammina macrescens</i>	1(1)	0(0)	0(0)	0(1)	0(1)	1(0)	2(0)	2(1)	2(1)	0(0)	0(0)	1(0)	0(0)	0(0)
<i>Tiphotrecha comprimata</i>	8(7)	6(3)	7(3)	2(0)	2(2)	7(0)	0(0)	8(1)	1(0)	6(0)	12(0)	13(0)	7(1)	1(0)
<i>Trochammina inflata</i>	3(0)	5(2)	4(3)	0(0)	0(2)	0(0)	4(0)	2(0)	3(0)	10(0)	5(0)	10(0)	5(0)	7(1)
<i>Textularia spp.</i>	1(1)	0(0)	3(1)	0(1)	0(0)	0(0)	3(0)	1(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)
<i>Reophax nana</i>	2(0)	4(0)	1(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)
<i>Ammodisus</i>	1(1)	0(0)	0(0)	1(0)	1(0)	0(0)	0(0)	0(0)	1(0)	0(0)	0(0)	0(0)	0(0)	0(0)
<b>Elevation(m MTL)</b>	<b>0.67</b>	<b>0.71</b>	<b>0.76</b>	<b>0.84</b>	<b>0.92</b>	<b>0.95</b>	<b>1.01</b>	<b>1.06</b>	<b>1.05</b>	<b>1.10</b>	<b>1.16</b>	<b>1.18</b>	<b>1.26</b>	<b>1.59</b>
<b>Salinity(‰)</b>	<b>25</b>	<b>15</b>	<b>20</b>	<b>20</b>	<b>20</b>	<b>20</b>	<b>15</b>	<b>20</b>	<b>4.5</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	

Transect 1 Georgetown species name	Sample station number							
	1	2	3	4	5	6	7	8
<i>Arenoparella mexicana</i>	2(0)	1(0)	5(7)	1(5)	2(6)	7(5)	3(2)	7(1)
<i>Milliammina fusca</i>	6(4)	30(0)	53(4)	35(4)	26(8)	40(10)	29(4)	46(19)
<i>Tiphotrecha comprimata</i>	20(6)	21(6)	6(3)	8(9)	18(5)	15(8)	9(0)	3(1)
<i>Ammosastuta inepta</i>	66(21)	90(20)	72(33)	86(14)	74(13)	63(38)	49(17)	35(22)
<i>Ammobaculites dilatatus</i>	0(0)	10(5)	47(17)	2(0)	0(0)	1(0)	3(3)	11(15)
<i>Haplophragmoides spp.</i>	0(2)	2(0)	0(0)	0(2)	0(0)	0(0)	0(0)	0(0)
<b>Elevation(m MTL)</b>	<b>0.99</b>	<b>0.89</b>	<b>0.90</b>	<b>0.52</b>	<b>0.74</b>	<b>0.68</b>	<b>0.52</b>	<b>0.34</b>
<b>Salinity(‰)</b>	<b>9.00</b>	<b>5.00</b>	<b>0.00</b>	n/a	n/a	n/a	n/a	<b>7.00</b>

Transect 2 Georgetown species name	Sample station number									
	1	2	3	4	5	6	7	8	9	10
<i>Arenoparella mexicana</i>	0(0)	1(3)	7(5)	23(0)	1(0)	3(2)	1(7)	2(0)	1(3)	0(0)
<i>Milliammina fusca</i>	9(7)	32(0)	16(0)	25(1)	18(1)	80(8)	72(8)	58(8)	34(10)	8(1)
<i>Tiphotrecha comprimata</i>	4(15)	17(3)	7(0)	11(2)	38(1)	1(4)	8(9)	3(3)	9(8)	29(3)
<i>Ammosastuta inepta</i>	28(18)	98(16)	70(15)	119(6)	90(25)	67(29)	72(34)	44(15)	68(38)	98(43)
<i>Ammobaculites dilatatus</i>	0(0)	7(2)	24(9)	25(2)	7(3)	16(11)	7(2)	6(1)	5(1)	0(0)
<i>Haplophragmoides spp.</i>	1(0)	0(0)	0(1)	1(0)	0(1)	0(0)	0(0)	0(0)	0(0)	0(0)
<b>Elevation(m MTL)</b>	<b>1.06</b>	<b>0.92</b>	<b>0.92</b>	<b>0.88</b>	<b>0.82</b>	<b>0.83</b>	<b>0.83</b>	<b>0.73</b>	<b>0.73</b>	<b>0.60</b>
<b>Salinity(‰)</b>	n/a	n/a	n/a	5.00	10.00	n/a	n/a	n/a	n/a	0.00

Transect 3 Georgetown species name	Sample station number							
	1	2	3	4	5	6	7	8
<i>Arenoparella mexicana</i>	4(0)	3(0)	1(0)	3(2)	0(0)	18(0)	3(1)	1(2)
<i>Milliammina fusca</i>	20(4)	33(0)	31(0)	34(2)	40(4)	40(4)	39(4)	52(1)
<i>Tiphotrecha comprimata</i>	28(14)	19(0)	14(0)	8(8)	3(6)	15(1)	7(2)	5(4)
<i>Ammosastuta inepta</i>	60(24)	89(6)	129(7)	84(2)	38(6)	85(3)	44(15)	55(8)
<i>Ammobaculites dilatatus</i>	0(0)	20(3)	10(3)	12(6)	25(3)	6(1)	9(1)	8(2)
<i>Haplophragmoides spp.</i>	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)
<b>Elevation(m MTL)</b>	<b>1.00</b>	<b>0.90</b>	<b>0.91</b>	<b>0.92</b>	<b>0.75</b>	<b>0.76</b>	<b>0.64</b>	<b>0.48</b>
<b>Salinity(‰)</b>	n/a	n/a	n/a	n/a	n/a	n/a	7.00	12.00