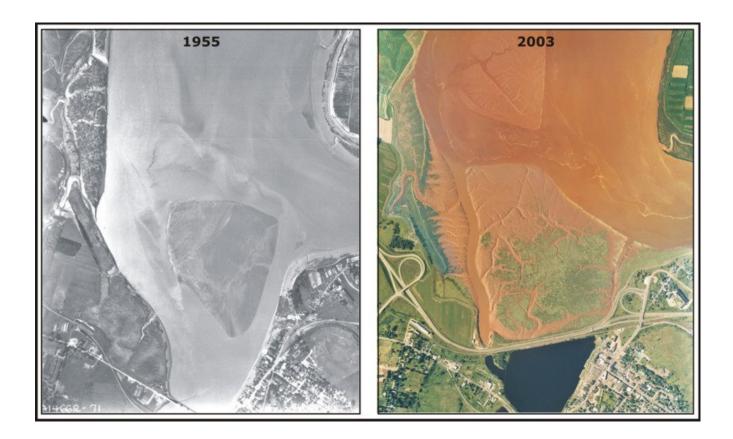


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FINAL REPORT

DEVELOPMENT of a SERIES of HISTORICAL DIGITAL MOSAICS DEPICTING CHANGE in INTERTIDAL HABITAT in the MINAS BASIN



Prepared by

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March 5th, 2006

INTRODUCTION

In a 'natural' world, salt marshes represent a delicately balanced system between hydrodynamic forces and ecological, sedimentological and morphological responses. However, this balance may be changed as a result of anthropogenic forcing functions such as construction of engineering structures, dredging or altering landuse activities. Over the last century, the majority of rivers entering into the Bay of Fundy have been highly modified through the construction of tidal barriers. The construction of these barriers resulted in either partial or complete obstruction to tidal flow in many areas around the Bay. Tidal barriers effectively decrease turbulent energy in the tidal system causing sediments and other particles to drop from suspension and accumulate as deposits of mud, sand and silt. In other areas, localized erosion is initiated either directly upstream or downstream of a partially restrictive barrier. Ecosystems inhabiting this zone, such as mudflats and salt marshes, are some of the first environments to feel the effects of coastal modification¹⁷. These changes have cascading impacts on intertidal ecosystems, some negative and others positive. Overall however, the cumulative impacts of tidal barriers on intertidal ecosystems of the Bay of Fundy are unknown. This is of particular concern with increasing interest in removing or modifying tidal barriers in an effort to 'return the tides'. Without a solid or known baseline of past and present 'states' of these systems, assessing or predicting the success of restoration activities in the context of the whole system is difficult.

In addition, cycles of progradation and retreat have been documented on a number of marsh and intertidal systems^{6,7,1,,16}. These cycles have been linked to changes in sea level^{1,3} and in the tidal prism due to human activities such as tidal barrier construction^{5,3,8,16,17} or dredging^{8,7}, changes in wind/wave climate ^{1,13,7}, sediment supply^{3,9}, cliff morphology^{10,13,12}, intertidal sedimentation^{14,16} and changes in the location of the major tidal channel^{6,12,13,2,15}. One of the most effective ways of documenting these changes is through the analysis of rectified aerial photographs within a GIS system. This is the preliminary stage that is required before any true questions regarding the 'why' of these changes can be addressed.

The purpose of this research project was to assess and integrate all available historical aerial photography into the comprehensive digital geodatabase initiated in 2004. This study focused on the Southern Bight of the Minas Basin and compliments on-going initiatives to quantify the changes in ecosystem habitat in the Minas Basin. These mosaics will be used to quantify changes in ecosystem habitat in the Minas Basin and address questions of *why* and *at what rate* these changes are occurring in subsequent research.

METHODOLOGY

A senior undergraduate geography major (Peter Horne) with a background in geomatics and physical geography was hired on a full time basis throughout the summer of 2005. All of the GIS work was conducted using ArcGIS 9.0 in the Maritime Provinces Spatial Analysis Research Centre (MP_SpARC) at Saint Mary's University and was supervised by Dr. Danika van Proosdij and Greg Baker (MP_SpARC geomatics research technician).

Relevant flight lines were identified (Appendix A) and individual aerial photographs were examined at either the Department of Natural Resources Archives or Land Information Services in Halifax and assessed for suitability for intertidal analysis. Photographs were classified based on

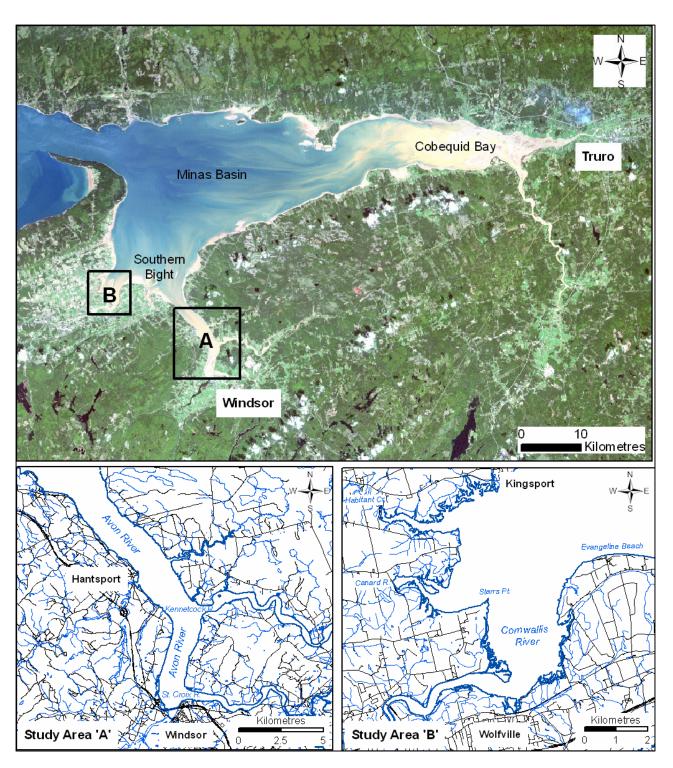


Figure 1: Location of study areas for mosaic creation 'A' = Avon and 'B' = Cornwallis

the visibility of sections of the intertidal zone based on the following criteria: *low* (entire intertidal zone visible including main river channel thalwegs), *between low to mid* (entire intertidal zone visible but cannot distinguish main river channel thalweg), *mid* (majority of mudflat not visible except intersection between low marsh and mudflat), *between mid to high* (low marsh edges not

visible) and *high* (majority of intertidal surface covered by tidal waters). Older photographs were ordered from the National Archives based on flight line information. This process was quite tedious since many of the earlier photographs were either not available or image numbers did not correspond with flight lines provided. In many cases, it was impossible to get a complete set of 'low tide' photographs for the entire Southern Bight area. As a result, two primary study areas (Figure 1) were created: *Avon* and *Cornwallis*. This division also facilitated the creation of manageable mosaics.

All of the photographs were scanned at an appropriate dpi to provide 1-m ground resolution. For example, 1:10,000 scale photographs were scanned at 300 dpi (minimum = 254 dpi) to allow for greater clarity in the image during the rectification process. The images were then georeferenced and rectified in ArcMap using 1:10,000 digital topographic map sheets and referenced to UTM Zone 20N NAD 1983 CSRS 98. Mosaics were generated using a custom AML created by Greg Baker (Saint Mary's University Maritime Provinces Spatial Analysis Research Center – MP_SpARC) and 'cleaned' in Adobe Photoshop. Some color correction was performed if it was critical to interpretation (e.g. blurry boundary or sharp contrast) however original colors were retained where possible to permit future digital processing and analysis. Therefore some of the mosaics are more 'patchy' than others. Table 1 summarizes the dates of photographs used and resultant mosaics.

				Decade			
Study Area	1940s	1950s	1960s	1970s	1980s	1990s	2000s
Avon	1944, 45	1954, 55	1964	1973	High tide	1992	2003
Cornwallis	1945	High tide	High tide	1977	1987	1992	2002

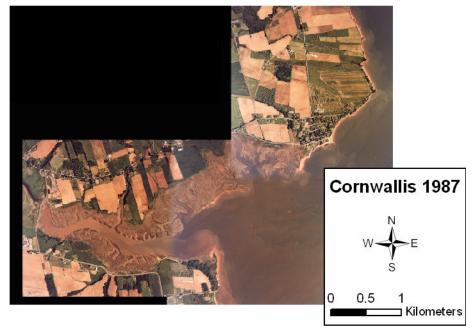
Table 1: Summary of mosaics created based on available aerial photography

RESULTS

Approximately 950 aerial photographs from 256 flight lines from 1944 to 2004 were Results of the examined. assessment are summarized in Appendices A and B. Approximately one third of the flight lines were determined not to be suitable for analysis of the intertidal zone. A total of 343 photos were found to be suitable for

Figure 2: Example of 'between mid to high' tide level in 1987 Cornwallis mosaic.

inclusion into the project. A detailed list of photographs



currently residing at Saint Mary's University are included in Appendix C. Unfortunately the lack of

low tide photography had the most impact on the Cornwallis area where no mosaics were able to be created for the 1950s and 1960s. The 1987 mosaic generated for this area was also of limited value since the tide level covered the lower portion of the marsh and in many locations the marsh/mudflat boundary was not visible. Fortunately, the mosaics created for the 1970s, 1990s and 2000s were able to display the entire intertidal zone quite effectively and will be of excellent use in subsequent analysis. The mosaics presented in the following figures were created from all of the photographs available for a given decade where the tide was at mid to low tide positions. In some instances a photograph was included if it showed critical shoreline elements or engineering structures (e.g. causeway or wharf) even if the marsh was partially covered with water (Figure 2).

DISCUSSION and CONCLUSIONS

In general, the creation and use of historical aerial photo mosaics to document and quantify changes in coastal habitat is a relatively straight forward procedure. However the macrotidal conditions of the Upper Bay of Fundy present some considerable challenges to the seamless creation of images. Flight lines are generally flown along a west-east transect within each county, essentially bisecting the Southern Bight. As a result, it is next to impossible to have identical tidal conditions for the entire mosaic. In addition, since the Minas Basin covers four different counties (Figure 3) and flights are flown on a county basis, this can result in the western shore of the Avon River being flown as much as 4 years before or after the eastern shore. For example, Hants County was flown in 1973, 1981, 1992 and 2003/04 while the adjacent Kings County was flown in 1977, 1987, 1992 and 2002. Furthermore, at times a county may be divided even further (e.g. Hants 2003/04).

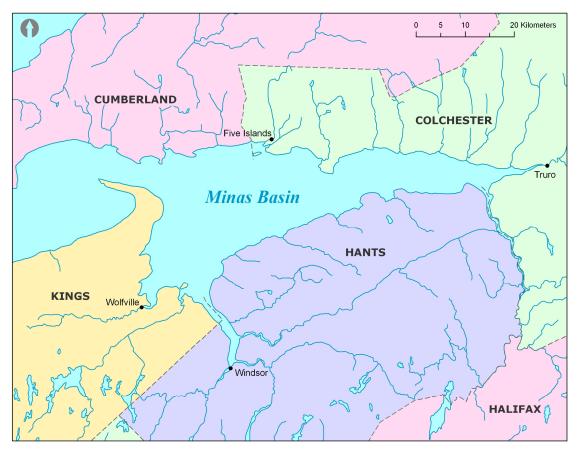


Figure 3: County Boundaries around the Minas Basin

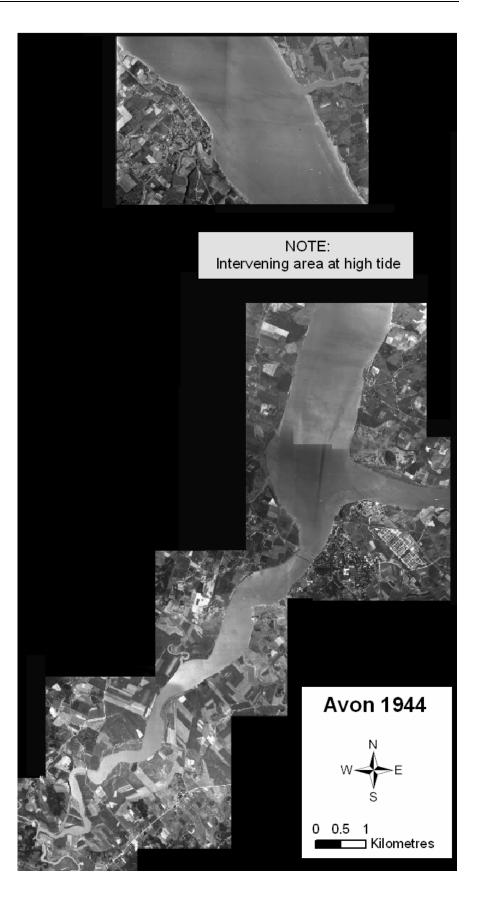


Figure 4: Avon 1944 mosaic created from 1: 15, 840 scale aerial photographs. Mosaic ground resolution = 1

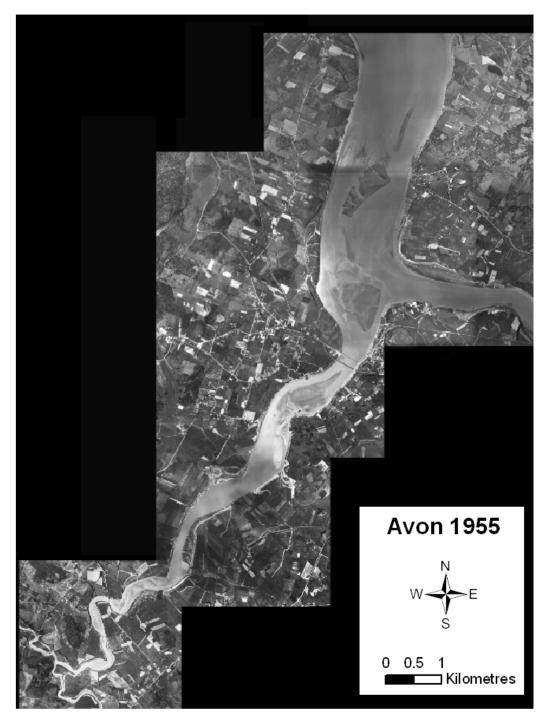


Figure 5: Avon 1955 generated from 1:15, 840 scale aerial photographs which were at mid to low tide levels. Mosaic ground resolution = 1 m.



Figure 6: Avon 1964 generated from 1:15,840 scale aerial photographs which were at low tide levels. Mosaic ground resolution = 1 m.

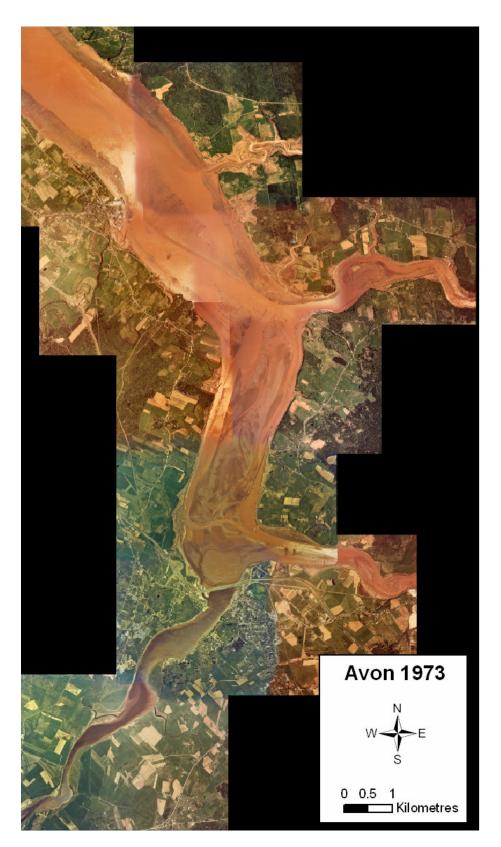


Figure 7: Avon 1973 generated from 1: 16,000 scale aerial photographs. Mosaic ground resolution = 1 m.

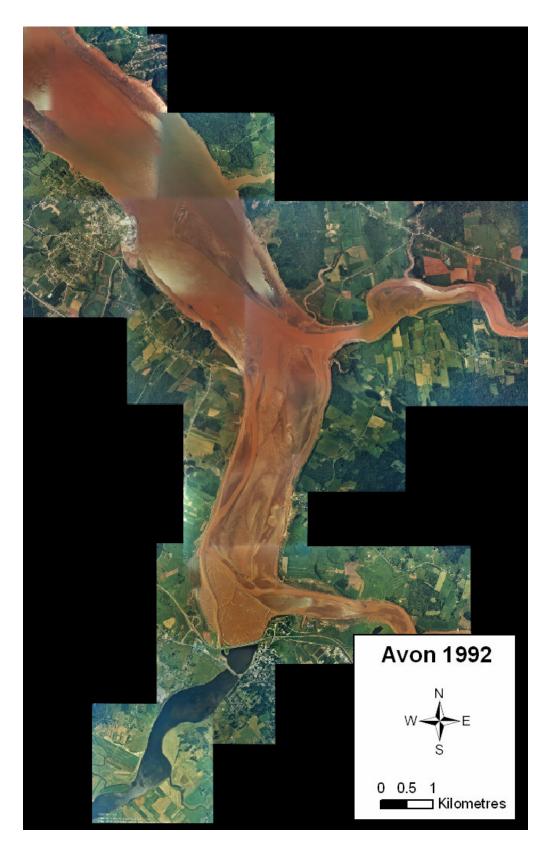


Figure 8: Avon 1992 generated from 1: 10,000 aerial photographs. Mosaic ground resolution = 1 m.

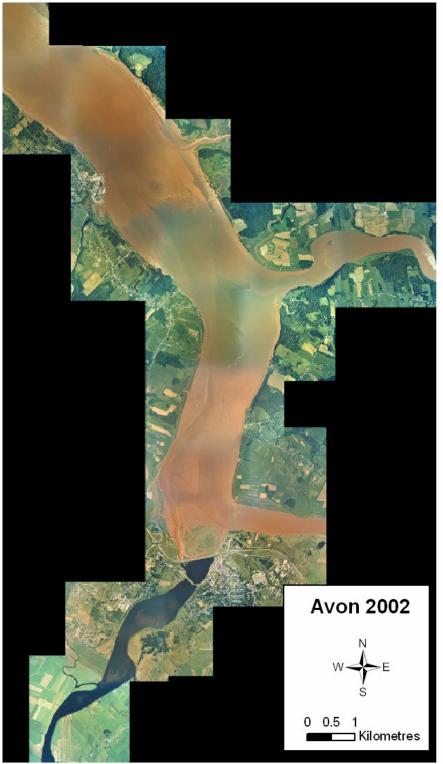


Figure 9: Avon 2002_03 generated from 1: 10,000 aerial photographs from 2002 & 2003. Mosaic ground resolution = 1 m.

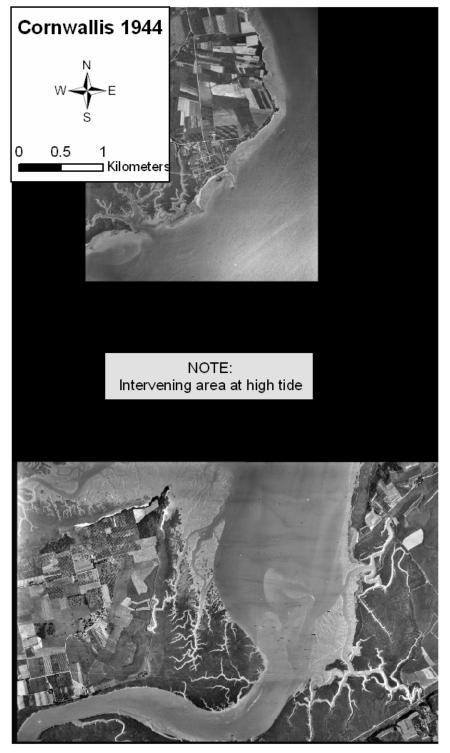


Figure 10: Cornwallis 1944 mosaic generated from 1: 15,840 scale aerial photographs from 1944 and 1945. Mosaic ground resolution = 1 m.

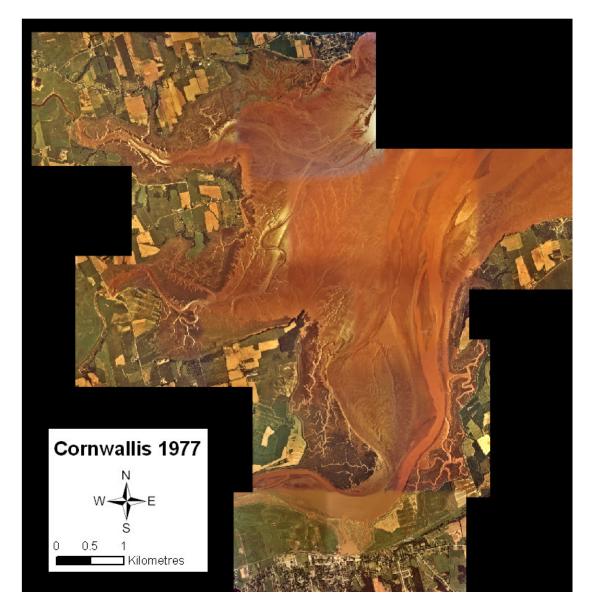


Figure 11: Cornwallis 1977 generated from 1: 10,000 scale aerial photographs. Mosaic ground resolution = 1 m. Note high tide in southern most portion of image adjacent to Wolfville waterfront.

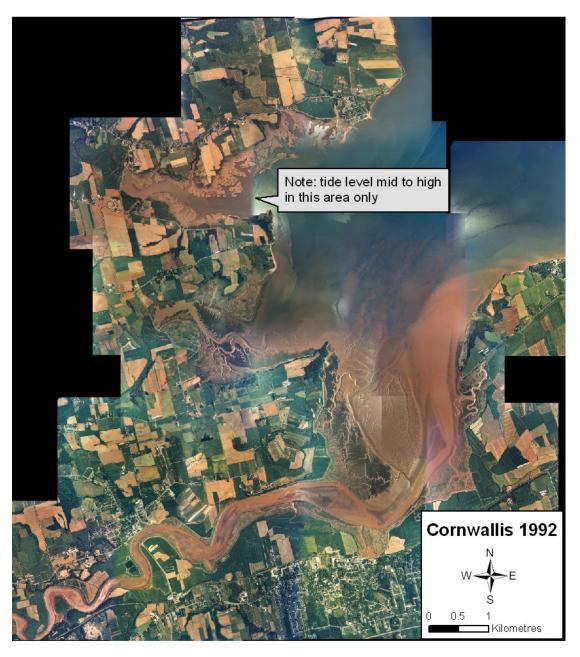


Figure 12: Cornwallis 1992 generated from 1:10,000 scale aerial photographs. Mosaic ground resolution = 1m.

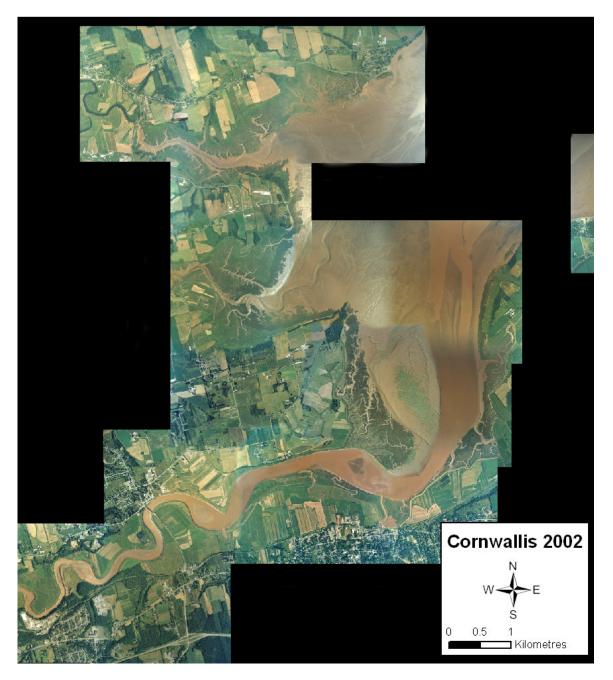


Figure 13: Cornwallis 2002 generated from 1: 10,000 aerial photographs. Mosaic ground resolution = 1m.

Some of the mosaics however, are still able to accurately display the majority of the marsh and mudflat ecosystems. These include Avon 1955, 1973 and 2003 and Cornwallis 1944, 1977 and 2002. The 1992 mosaics for both Avon and Cornwallis have sections at mid to high tide. However the majority of the 1992 image provides excellent depictions of intertidal geomorphology of the region as a whole.

It is recommended that any analyses using the mosaics presented in this report be verified by ground truthing exercises. In addition, aerial photography presents a very good depiction of the horizontal plane and does not accurately display any vertical variations in intertidal elevations. These variations can have a significant impact on area determinations and should be included in subsequent analyses. This project however does provide a strong first step to examining the question of what changes have occurred in intertidal ecosystems in the Southern Bight over approximately the last 60 years. Further analyses are needed to begin to address why these changes are occurring.

ACKNOWLEDGEMENTS

This research would not have been possible without the GIS technical support from Greg Baker of Saint Mary's University's MP_SpARC unit (Maritime Provinces Spatial Analysis Research Unit). Peter Dobek and Jillian Bambrick are thanked for their assistance in the lab searching, procuring, scanning and cataloguing the aerial photographs. Ken Carroll and Daryl Hingley from NS Dept. of Agriculture, Land Protection Division provided valuable field expertise and insight into marshes of the Southern Bight. Funding for this project was received from the Bay of Fundy Ecosystem Partnership (BoFEP) via the Action Plan Grants Program of the Gulf of Maine Council for the Marine Environment and the Student Employment Experience Program at Saint Mary's University.

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APPENDIX A

Historical Flight Lines Examined and Housed at Saint Mary's University

Year	County	Area
1945	Kings/ Hants	Avon River
1945	Kings	Cape Split down
1954	Kings/ Hants	Wolfville
1954	Hants	below Windsor
1954	Hants/	Cobequid Bay
	Colchester	
1955	Hants	Avon River
1961-68	Kings/ Cumb/	Cape Split &
	Colc	Chignecto Bay
1967	Kings/ Hants/	Cape Split
	Colc./ Cumber.	
1967	Kings	bad quality
1967	Kings	Cape Split
1973	Hants	same as below
1973	Hants/ Halifax	same as above
1975	Cumberland/	
	Colchester	
1977	Kings	Cape Split
1981	Hants	along coast
1985	Colchester/	
	Cumberland	
1985	Cumberland	
1987	Kings	Cape Split
1992	Colchester	Truro
1992	Colchester/	
	Hants	
1992	Kings/ Hants	Windsor
1992	Kings/ Hants	Wolfville
1994	Colchester/	
1994	Colchester	Truro
2002	Kings/ Hants	Windsor
2002	Kings/ Hants	Wolfville
2003	Kings/ Hants	Windsor
2003	Kings/ Hants	Wolfville
2004	Kings/ Hants	Wolfville

Year	Flight Line	Photo #
1944/45	A8645	56, 58
	A8646	82, 84
	A8719	34
1955	A14662	72
	A14713	88, 90
Year	Flight Line	Photo #
1964	A18352	73, 74, 75, 76, 205, 208, 209
1304	A18354	208
	A18357	60, 62, 64, 81, 86, 202, 204, 206, 208, 210,
	A10337	214, 216
	A18439	44, 46, 48, 49, 50, 51
		81
	A18503	01
V	Elizabet Lizza	Dhata #
Year	Flight Line	Photo #
1973	A30670	135, 156, 157, 160
	A30671	1, 223, 224
	A30672	143, 145
	A30674	157(x2), 159(x2), 161(x2), 162
	A30676	6, 7, 8, 10, 12(x2), 13, 81, 83(x2), 85(x2),
		87(x2), 88, 89, 92(x2), 94(x2), 96, 178(x2)
	A30893	118, 120, 121
1975	75040	104, 106, 108, 129, 131, 133, 135, 137,139
		144, 152, 154, 156, 158, 171, 173, 191
1977	A77300	1, 3, 16, 18, 46, 48, 57, 59, 61
	A77301	45, 47, 49, 58, 59, 60, 62, 63, 65, 67, 68,
		70, 150, 151, 153, 155, 157, 159, 161
	A77316	1, 66, 68
	A77317	24
Year	Flight Line	Photo #
1981	81326	15, 17
1001	81328	146
	81332	16, 17(x2), 19(x2), 21(x2), 23, 24, 25, 27,
	01332	
		98, 99, 100, 106, 166, 168
1987	87304	35, 37, 75

APPENDIX B: Aerial Photographs Available at Saint Mary's University MP_SpARC

Year	Flight Line	Photo #
1992	92300	87, 89, 91, 93, 95, 97
.002	92301	62 (x2)
	92302	43, 45, 47, 52, 54, 56, 58
	92303	46, 48, 50, 52, 55, 57, 59, 61(x2), 63(x2), 172,
	92303	173, 175, 176, 178, 190(x2), 192(x2), 211
	92305	
	92316	35, 37, 76, 77, 79, 80, 82, 84, 86 48, 50, 52, 53, 55, 57, 60, 61, 62, 63, 88,
	92310	48, 50, 52, 53, 55, 57, 60, 61, 62, 63, 88, 90, 92
	92317	96, 92 96 (x2), 98, 119, 121, 123, 135, 137
	92318	51, 53, 55, 57, 59, 61
		55, 140
	92333	-
	92334	11, 15, 25, 57, 59
	92343	97, 99, 101, 103, 105, 107
	92344	20, 22, 28
	92354	16
	92363	87, 95
	92379	63, 73
	92389	61
	92391	6
1994	94001	8, 10, 12, 14, 16, 18, 20, 22, 67, 68, 70,
		124, 126
	94002	2, 56, 73
		Dhata #
Year	Flight Line	Photo #
Year 2002	Flight Line 02307	145, 146(x2), 148, 180, 181, 183, 185, 187,
	02307	145, 146(x2), 148, 180, 181, 183, 185, 187, 189
		145, 146(x2), 148, 180, 181, 183, 185, 187, 189 38, 75, 77, 79, 80, 81, 87, 113, 114, 116,
	02307	145, 146(x2), 148, 180, 181, 183, 185, 187, 189 38, 75, 77, 79, 80, 81, 87, 113, 114, 116, 153, 155, 157, 163, 164, 165
	02307 02308 02309	145, 146(x2), 148, 180, 181, 183, 185, 187, 189 38, 75, 77, 79, 80, 81, 87, 113, 114, 116, 153, 155, 157, 163, 164, 165 3, 5, 13, 17, 18
	02307 02308 02309 02322	145, 146(x2), 148, 180, 181, 183, 185, 187, 189 38, 75, 77, 79, 80, 81, 87, 113, 114, 116, 153, 155, 157, 163, 164, 165 3, 5, 13, 17, 18 115, 116, 118, 120, 122, 130, 140, 142, 175
	02307 02308 02309 02322 02327	145, 146(x2), 148, 180, 181, 183, 185, 187, 189 38, 75, 77, 79, 80, 81, 87, 113, 114, 116, 153, 155, 157, 163, 164, 165 3, 5, 13, 17, 18 115, 116, 118, 120, 122, 130, 140, 142, 175 113
	02307 02308 02309 02322	145, 146(x2), 148, 180, 181, 183, 185, 187, 189 38, 75, 77, 79, 80, 81, 87, 113, 114, 116, 153, 155, 157, 163, 164, 165 3, 5, 13, 17, 18 115, 116, 118, 120, 122, 130, 140, 142, 175
2002	02307 02308 02309 02322 02327 02329	145, 146(x2), 148, 180, 181, 183, 185, 187, 189 38, 75, 77, 79, 80, 81, 87, 113, 114, 116, 153, 155, 157, 163, 164, 165 3, 5, 13, 17, 18 115, 116, 118, 120, 122, 130, 140, 142, 175 113 144, 146, 190, 192, 193, 198, 200, 202, 203
	02307 02308 02309 02322 02327 02327 02329 03301	145, 146(x2), 148, 180, 181, 183, 185, 187, 189 38, 75, 77, 79, 80, 81, 87, 113, 114, 116, 153, 155, 157, 163, 164, 165 3, 5, 13, 17, 18 115, 116, 118, 120, 122, 130, 140, 142, 175 113 144, 146, 190, 192, 193, 198, 200, 202, 203 15, 16(x2), 24
2002	02307 02308 02309 02322 02327 02329 03301 03302	145, 146(x2), 148, 180, 181, 183, 185, 187, 189 38, 75, 77, 79, 80, 81, 87, 113, 114, 116, 153, 155, 157, 163, 164, 165 3, 5, 13, 17, 18 115, 116, 118, 120, 122, 130, 140, 142, 175 113 144, 146, 190, 192, 193, 198, 200, 202, 203 15, 16(x2), 24 22, 24, 26
2002	02307 02308 02309 02322 02327 02327 02329 03301	145, 146(x2), 148, 180, 181, 183, 185, 187, 189 38, 75, 77, 79, 80, 81, 87, 113, 114, 116, 153, 155, 157, 163, 164, 165 3, 5, 13, 17, 18 115, 116, 118, 120, 122, 130, 140, 142, 175 113 144, 146, 190, 192, 193, 198, 200, 202, 203 15, 16(x2), 24 22, 24, 26 180, 181, 183, 185, 187, 189, 191, 192,
2002	02307 02308 02309 02322 02327 02329 03301 03302	145, 146(x2), 148, 180, 181, 183, 185, 187, 189 38, 75, 77, 79, 80, 81, 87, 113, 114, 116, 153, 155, 157, 163, 164, 165 3, 5, 13, 17, 18 115, 116, 118, 120, 122, 130, 140, 142, 175 113 144, 146, 190, 192, 193, 198, 200, 202, 203 15, 16(x2), 24 22, 24, 26 180, 181, 183, 185, 187, 189, 191, 192, 213, 215, 216, 217, 218, 219, 220
2002	02307 02308 02309 02322 02327 02329 03301 03302	145, 146(x2), 148, 180, 181, 183, 185, 187, 189 38, 75, 77, 79, 80, 81, 87, 113, 114, 116, 153, 155, 157, 163, 164, 165 3, 5, 13, 17, 18 115, 116, 118, 120, 122, 130, 140, 142, 175 113 144, 146, 190, 192, 193, 198, 200, 202, 203 15, 16(x2), 24 22, 24, 26 180, 181, 183, 185, 187, 189, 191, 192, 213, 215, 216, 217, 218, 219, 220 10, 25, 93, 95, 97, 99, 101, 103, 162, 164,
2002	02307 02308 02309 02322 02327 02329 03301 03302 03004 03308	145, 146(x2), 148, 180, 181, 183, 185, 187, 189 38, 75, 77, 79, 80, 81, 87, 113, 114, 116, 153, 155, 157, 163, 164, 165 3, 5, 13, 17, 18 115, 116, 118, 120, 122, 130, 140, 142, 175 113 144, 146, 190, 192, 193, 198, 200, 202, 203 15, 16(x2), 24 22, 24, 26 180, 181, 183, 185, 187, 189, 191, 192, 213, 215, 216, 217, 218, 219, 220 10, 25, 93, 95, 97, 99, 101, 103, 162, 164, 169, 171
2002	02307 02308 02309 02322 02327 02329 03301 03302 03304 03308 03316	145, 146(x2), 148, 180, 181, 183, 185, 187, 189 38, 75, 77, 79, 80, 81, 87, 113, 114, 116, 153, 155, 157, 163, 164, 165 3, 5, 13, 17, 18 115, 116, 118, 120, 122, 130, 140, 142, 175 113 144, 146, 190, 192, 193, 198, 200, 202, 203 15, 16(x2), 24 22, 24, 26 180, 181, 183, 185, 187, 189, 191, 192, 213, 215, 216, 217, 218, 219, 220 10, 25, 93, 95, 97, 99, 101, 103, 162, 164,
2002	02307 02308 02309 02322 02327 02329 03301 03302 03004 03308 03316 03317	145, 146(x2), 148, 180, 181, 183, 185, 187, 189 38, 75, 77, 79, 80, 81, 87, 113, 114, 116, 153, 155, 157, 163, 164, 165 3, 5, 13, 17, 18 115, 116, 118, 120, 122, 130, 140, 142, 175 113 144, 146, 190, 192, 193, 198, 200, 202, 203 15, 16(x2), 24 22, 24, 26 180, 181, 183, 185, 187, 189, 191, 192, 213, 215, 216, 217, 218, 219, 220 10, 25, 93, 95, 97, 99, 101, 103, 162, 164, 169, 171 27 19, 21, 23, 24
2002	02307 02308 02309 02322 02327 02329 03301 03302 03304 03308 03316	145, 146(x2), 148, 180, 181, 183, 185, 187, 189 38, 75, 77, 79, 80, 81, 87, 113, 114, 116, 153, 155, 157, 163, 164, 165 3, 5, 13, 17, 18 115, 116, 118, 120, 122, 130, 140, 142, 175 113 144, 146, 190, 192, 193, 198, 200, 202, 203 15, 16(x2), 24 22, 24, 26 180, 181, 183, 185, 187, 189, 191, 192, 213, 215, 216, 217, 218, 219, 220 10, 25, 93, 95, 97, 99, 101, 103, 162, 164, 169, 171 27 19, 21, 23, 24 19, 31
2002	02307 02308 02309 02322 02327 02329 03301 03302 03004 03308 03316 03317	145, 146(x2), 148, 180, 181, 183, 185, 187, 189 38, 75, 77, 79, 80, 81, 87, 113, 114, 116, 153, 155, 157, 163, 164, 165 3, 5, 13, 17, 18 115, 116, 118, 120, 122, 130, 140, 142, 175 113 144, 146, 190, 192, 193, 198, 200, 202, 203 15, 16(x2), 24 22, 24, 26 180, 181, 183, 185, 187, 189, 191, 192, 213, 215, 216, 217, 218, 219, 220 10, 25, 93, 95, 97, 99, 101, 103, 162, 164, 169, 171 27 19, 21, 23, 24
2002	02307 02308 02309 02322 02327 02329 03301 03302 03004 03308 03316 03316 03317 03318 03321	145, 146(x2), 148, 180, 181, 183, 185, 187, 189 38, 75, 77, 79, 80, 81, 87, 113, 114, 116, 153, 155, 157, 163, 164, 165 3, 5, 13, 17, 18 115, 116, 118, 120, 122, 130, 140, 142, 175 113 144, 146, 190, 192, 193, 198, 200, 202, 203 15, 16(x2), 24 22, 24, 26 180, 181, 183, 185, 187, 189, 191, 192, 213, 215, 216, 217, 218, 219, 220 10, 25, 93, 95, 97, 99, 101, 103, 162, 164, 169, 171 27 19, 21, 23, 24 19, 31 93, 95, 97(x2), 105
2002	02307 02308 02309 02322 02327 02329 03301 03302 03004 03308 03316 03316 03317 03318 03318 03321	145, 146(x2), 148, 180, 181, 183, 185, 187, 189 38, 75, 77, 79, 80, 81, 87, 113, 114, 116, 153, 155, 157, 163, 164, 165 3, 5, 13, 17, 18 115, 116, 118, 120, 122, 130, 140, 142, 175 113 144, 146, 190, 192, 193, 198, 200, 202, 203 15, 16(x2), 24 22, 24, 26 180, 181, 183, 185, 187, 189, 191, 192, 213, 215, 216, 217, 218, 219, 220 10, 25, 93, 95, 97, 99, 101, 103, 162, 164, 169, 171 27 19, 21, 23, 24 19, 31 93, 95, 97(x2), 105 1, 3, 83
2002	02307 02308 02309 02322 02327 02329 03301 03302 03004 03308 03316 03316 03317 03318 03318 03321	145, 146(x2), 148, 180, 181, 183, 185, 187, 189 38, 75, 77, 79, 80, 81, 87, 113, 114, 116, 153, 155, 157, 163, 164, 165 3, 5, 13, 17, 18 115, 116, 118, 120, 122, 130, 140, 142, 175 113 144, 146, 190, 192, 193, 198, 200, 202, 203 15, 16(x2), 24 22, 24, 26 180, 181, 183, 185, 187, 189, 191, 192, 213, 215, 216, 217, 218, 219, 220 10, 25, 93, 95, 97, 99, 101, 103, 162, 164, 169, 171 27 19, 21, 23, 24 93, 95, 97(x2), 105 1, 3, 83 17, 18
2002	02307 02308 02309 02322 02327 02329 03301 03302 03004 03308 03316 03317 03318 03317 03318 03321 04308 04314 04325	145, 146(x2), 148, 180, 181, 183, 185, 187, 189 38, 75, 77, 79, 80, 81, 87, 113, 114, 116, 153, 155, 157, 163, 164, 165 3, 5, 13, 17, 18 115, 116, 118, 120, 122, 130, 140, 142, 175 113 144, 146, 190, 192, 193, 198, 200, 202, 203 15, 16(x2), 24 22, 24, 26 180, 181, 183, 185, 187, 189, 191, 192, 213, 215, 216, 217, 218, 219, 220 10, 25, 93, 95, 97, 99, 101, 103, 162, 164, 169, 171 27 19, 21, 23, 24 19, 31 93, 95, 97(x2), 105 11, 3, 83 17, 18 2, 3
2002	02307 02308 02309 02322 02327 02329 03301 03302 03004 03308 03316 03316 03317 03318 03318 03321	145, 146(x2), 148, 180, 181, 183, 185, 187, 189 38, 75, 77, 79, 80, 81, 87, 113, 114, 116, 153, 155, 157, 163, 164, 165 3, 5, 13, 17, 18 115, 116, 118, 120, 122, 130, 140, 142, 175 113 144, 146, 190, 192, 193, 198, 200, 202, 203 15, 16(x2), 24 22, 24, 26 180, 181, 183, 185, 187, 189, 191, 192, 213, 215, 216, 217, 218, 219, 220 10, 25, 93, 95, 97, 99, 101, 103, 162, 164, 169, 171 27 19, 21, 23, 24 93, 95, 97(x2), 105 1, 3, 83 17, 18

21H/08 Best Cov 2-14 17,19 / 21,22 24,26 / 29,31 34,36 / 42,44	Flight Line A-8718	Photo Range	Date	Low	Between	Tide Leve Mid	Between	High
2-14 17,19 / 21,22 24,26 / 29,31	0		Date	Low	Between	Mid	Between	High
17,19 / 21,22 24,26 / 29,31	A-8718					TVIIG	Dotwooll	riign
24,26 / 29,31		1 to 15	1945		Х			<u> </u>
24,26 / 29,31	A-8718	16 to 22	1945		Х			
	A-8718	23 to32	1945		Х			
0 1.00 / 74.77	A-8718	33 to 45	1945		Х			
2,3,4,6	A-6532	1 to 6	1939				Х	
1-33	A-6531	1 to34	1939				Х	
39-45	A-5925	39 to 45	1938	Х				
21H/01		<u> </u>		Low	Between	Mid	Between	High
69,71 / 78,80	A-8718	69 to 80	1945	х				Ŭ
64,66	A-8718	56 to 68	1945	Х				
24,26	A-8650	23 to 41	1945	Х				
18,20	A-8650	16-20	1945	Х				
79,81,82	A-8719	79 to 82	1945				X	
71-77	A-8719	71 to 77	1945				X	
64-70	A-8719	59 to70	1945			Х		
37-41	A-8719	59 to 70	1945			X		
25-35	A-8719	24 to 36	1945		Х		1	
96-98	A-8719	87 to 98	1945		Х		1	
44256	A-10178	1 to 21	1946			Х	1 1	
38534	A-3619	1 to 8	1931	Х		~		
22-30	A-3624	22 to 30	1931	X				
92-102	A-3624	92 to 102	1931	X				
na	A-8719	98 to 102	1945	~				Х
45-61	A-8645	42 to 66	1945		Х			~
na	A-8646	46 to 60	1945		A			Х
na	A-8647	85 to 70	1945				 	X
5.6	A-8647	1 to 9	1945			Х		~
39-47	A-8648	39 to 50	1945			<u>X</u>	1 1	
na	A-8725	1 to 24	1945					Х
na	A-8726	75 to 93	1945					X
na	A-8727	4 to 22	1945				<u> </u>	X
								~
11E/05				Low	Between	Mid	Between	High
31-35	A-5922	30 to 35	1938	X	20110011		20110011	
35-41	A-5922	41 to 65	1938	X				
40-50	A-5913	40 to 50	1938	~	Х			
58-68	A-5923	58 to 67	1938	Х	A			
50,51	A-6524	50 to 51	1939	X				
28-38	A-5925	28 to 38	1938	X			1 1	
39-71	A-5925	39 to 85	1938	X			1 1	
85-99	A-5926	84 0 99	1938			Х		
na	A-5927	1 to 30	1938			~		Х
na	A-5927	56 to 75	1938					X
11E/06	// 002/			Low	Between	Mid	Between	High
na	A-5912	23 to 33	1938	LOW	Between	- Nila	Detween	X
98	A-5912 A-5913	98	1938			Х		Λ
19,20	A-6655	18 to 20	1938			<u> </u>	 	
58-66	A-6055 A-5923	58 to 66	1939	Х		л		
43040	A-5923 A-5924	11 to 17	1938	X				
1,4 / 64,66,68	A-5924 A-5926		1938	X				
45-47	A-5926 A-5654	to 4 & 64 to 6 45 to 47	1938	~	Х		1	
	A-5654 A-5922	45 t0 47 1 to 4	1939	Х	^			
11				~				X
2,4	A-5012							
2,4 na 41,43,45	A-5913 A-6526	10 to 15 41 to 45	1938 1939	Х				Λ

APPENDIX C: Assessment of Historical Aerial Photographs 1931 to 1945

						Tide Leve		
Best Cov	Flight Line	Photo Range	Date	Low	Between	Mid	Between	High
73, 74, 75	A-14285	73 to 80	1954		Х			
63,65	A-14192	62 to 70	1954	Х				
142-143	A-14010	140 to 143	1954		Х			
142-144	A-14489	145-140	1954		Х			
37,39	A-14489	35 to 40	1954		Х			
39,41	A-14490	35 to 43	1954	Х				
200-206	A-14486	197-203	1954	Х				
124-126	A-14486	127-121	1954			Х		
84-88	A-14491	82 to 88	1954		Х			
173, 174, 175	A-14392	174-176	1954	Х				
107-111	A-14282	101 to 112	1954			Х		
na	A-14285	27 to 28	1954					Х
1,3,5	A-14093	1 to 5	1954		Х			
218-220	A-14092	216-224	1954				X	
81-89/101,10	A-14092	81-105	1954				Х	
148-168	A-14010	148-169	1954			Х		
1,3	A-14088	1 to 5	1954	1			X	
21-31	A-14286	19-31	1954	1			X	
51-59	A-14285	58-45	1954	1		Х		
na	A-14285	60-63	1954					Х
61-63	A-14285	61 to 63	1954			Х		
64-74	A-14285	64 to 74	1954	1		X		
35-53 / 56,58	A-14192	35 to 44	1954			X	1 1	
63,65	A-14192	45 to 62	1954			Х	1 1	
100-128	A-14010	101 to 130	1954			X	1 1	
170, 171	A-14010	175 to 170	1954			Х		
148, 150	A-14087	150 to 135	1954			Х		
· ·								
				Low	Between	Mid	Between	High
195, 196	A-14010	193 to 198	1954	Low	Between	Mid	Х	High
195, 196 187-195	A-14010 A-14287	193 to 198 177 to 209	1954 1954	Low	Between	Mid	X X	High
				Low	Between	Mid	X X X	High
187-195	A-14287	177 to 209	1954	Low	Between	Mid	X X X X	High
187-195 60-98	A-14287 A-14010	177 to 209 60 to 99	1954 1954	Low	Between	Mid	X X X X X X	High
187-195 60-98 19-37 158-168 170-178	A-14287 A-14010 A-14192	177 to 209 60 to 99 19 to 37	1954 1954 1954	Low	Between	Mid	X X X X	High
187-195 60-98 19-37 158-168	A-14287 A-14010 A-14192 A-14087	177 to 209 60 to 99 19 to 37 158 to 169	1954 1954 1954 1954	Low	Between	X	X X X X X X	High
187-195 60-98 19-37 158-168 170-178	A-14287 A-14010 A-14192 A-14087 A-14087	177 to 209 60 to 99 19 to 37 158 to 169 170 to 178	1954 1954 1954 1954 1954 1954	Low	Between		X X X X X X X	High
187-195 60-98 19-37 158-168 170-178 47,48 / 51,52	A-14287 A-14010 A-14192 A-14087 A-14087 A-14282	177 to 209 60 to 99 19 to 37 158 to 169 170 to 178 47 to 52	1954 1954 1954 1954 1954 1954 1954	Low	Between	X	X X X X X X X X	High
187-195 60-98 19-37 158-168 170-178 47,48 / 51,52 53,55 / 57,58	A-14287 A-14010 A-14192 A-14087 A-14087 A-14087 A-14282 A-14282	177 to 209 60 to 99 19 to 37 158 to 169 170 to 178 47 to 52 53 to 59	1954 1954 1954 1954 1954 1954 1954 1954		Between	X	X X X X X X X	High
187-195 60-98 19-37 158-168 170-178 47,48 / 51,52 53,55 / 57,58 1-7 / 11,13	A-14287 A-14010 A-14192 A-14087 A-14087 A-14087 A-14282 A-14282 A-14661	177 to 209 60 to 99 19 to 37 158 to 169 170 to 178 47 to 52 53 to 59 4 to 14	1954 1954 1954 1954 1954 1954 1954 1954	Low	Between	X	X X X X X X X X	High
187-195 60-98 19-37 158-168 170-178 47,48 / 51,52 53,55 / 57,58 1-7 / 11,13 15,17 /24-30 1-7 1,3,5 / 12,14 /	A-14287 A-14010 A-14192 A-14087 A-14087 A-14282 A-14282 A-14282 A-14661 A-14661	177 to 209 60 to 99 19 to 37 158 to 169 170 to 178 47 to 52 53 to 59 4 to 14 15 to 26	1954 1954 1954 1954 1954 1954 1954 1954		Between	X X X	X X X X X X X X	High
187-195 60-98 19-37 158-168 170-178 47,48 / 51,52 53,55 / 57,58 1-7 / 11,13 15,17 /24-30 1-7 1,3,5 / 12,14 / 39,41 / 53,55,5	A-14287 A-14010 A-14192 A-14087 A-14087 A-14282 A-14282 A-14282 A-14661 A-14661 A-14668 A-14668 A-14668	177 to 209 60 to 99 19 to 37 158 to 169 170 to 178 47 to 52 53 to 59 4 to 14 15 to 26 1 to 7 1 to 24 39 to 58	1954 1954		Between	X X X	X X X X X X X X	High
187-195 60-98 19-37 158-168 170-178 47,48 / 51,52 53,55 / 57,58 1-7 / 11,13 15,17 /24-30 1-7 1,3,5 / 12,14 /	A-14287 A-14010 A-14192 A-14087 A-14087 A-14282 A-14282 A-14282 A-14661 A-14661 A-14668 A-14630	177 to 209 60 to 99 19 to 37 158 to 169 170 to 178 47 to 52 53 to 59 4 to 14 15 to 26 1 to 7 1 to 24 39 to 58 66 to 83	1954 1954		Between	X X X X X X	X X X X X X X X	High
187-195 60-98 19-37 158-168 170-178 47,48 / 51,52 53,55 / 57,58 1-7 / 11,13 15,17 /24-30 1-7 1,3,5 / 12,14 / 39,41 / 53,55,5	A-14287 A-14010 A-14192 A-14087 A-14087 A-14282 A-14282 A-14282 A-14661 A-14661 A-14668 A-14668 A-14668	177 to 209 60 to 99 19 to 37 158 to 169 170 to 178 47 to 52 53 to 59 4 to 14 15 to 26 1 to 7 1 to 24 39 to 58	1954 1954		Between	X X X X X X X X X	X X X X X X X X	High
187-195 60-98 19-37 158-168 170-178 47,48 / 51,52 53,55 / 57,58 1-7 / 11,13 15,17 /24-30 1-7 1,3,5 / 12,14 / 39,41 / 53,55,5 79 , 81, 83 49, 51 13-21	A-14287 A-14010 A-14192 A-14087 A-14087 A-14282 A-14282 A-14282 A-14661 A-14661 A-14668 A-14668 A-14668 A-14668 A-14668 A-14668	177 to 209 60 to 99 19 to 37 158 to 169 170 to 178 47 to 52 53 to 59 4 to 14 15 to 26 1 to 7 1 to 24 39 to 58 66 to 83 48 to 52 13 to 25	1954 1954		Between	X X X X X X X X X X	X X X X X X X X	High
187-195 60-98 19-37 158-168 170-178 47,48 / 51,52 53,55 / 57,58 1-7 / 11,13 15,17 /24-30 1-7 1,3,5 / 12,14 / 39,41 / 53,55,5 79 , 81, 83 49, 51 13-21 53,55	A-14287 A-14010 A-14192 A-14087 A-14087 A-14282 A-14282 A-14282 A-14661 A-14661 A-14668 A-14668 A-14668 A-14668 A-14661 A-14668 A-14661	$\begin{array}{c} 177 \text{ to } 209 \\ 60 \text{ to } 99 \\ 19 \text{ to } 37 \\ 158 \text{ to } 169 \\ 170 \text{ to } 178 \\ 47 \text{ to } 52 \\ 53 \text{ to } 59 \\ 4 \text{ to } 14 \\ 15 \text{ to } 26 \\ \hline 1 \text{ to } 7 \\ 1 \text{ to } 24 \\ 39 \text{ to } 58 \\ 66 \text{ to } 83 \\ 48 \text{ to } 52 \\ 13 \text{ to } 25 \\ 53 \text{ to } 56 \end{array}$	1954 1954		Between	X X X X X X X X X X X	X X X X X X X X	High
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187-195 60-98 19-37 158-168 170-178 47,48 / 51,52 53,55 / 57,58 1-7 / 11,13 15,17 /24-30 1-7 1,3,5 / 12,14 / 39,41 / 53,55,5 79 , 81, 83 49, 51 13-21 53,55 77-91 150-170 184-196 / 201- na 82-90 69-77 85-93	A-14287 A-14010 A-14192 A-14087 A-14087 A-14282 A-14282 A-14282 A-14661 A-14661 A-14668 A-14668 A-14668 A-14661 A-14661 A-14661 A-14661 A-14661 A-14661 A-14661 A-14661 A-14662 A-14662	177 to 209 60 to 99 19 to 37 158 to 169 170 to 178 47 to 52 53 to 59 4 to 14 15 to 26 1 to 7 1 to 24 39 to 58 66 to 83 48 to 52 13 to 25 53 to 56 67 to 95 145 to 170 179 to 210 1 to 9 22 to 35 82 to 93 65 to 78 84 to 94	1954 1954			X X X X X X X X X X X	X X X X X X X X	X
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187-195 60-98 19-37 158-168 170-178 47,48 / 51,52 53,55 / 57,58 1-7 / 11,13 15,17 /24-30 1-7 1,3,5 / 12,14 / 39,41 / 53,55,5 79 , 81, 83 49, 51 13-21 53,55 77-91 150-170 184-196 / 201- na 82-90 69-77 85-93	A-14287 A-14010 A-14192 A-14087 A-14087 A-14282 A-14282 A-14282 A-14661 A-14661 A-14668 A-14668 A-14668 A-14661 A-14661 A-14661 A-14661 A-14661 A-14661 A-14661 A-14661 A-14662 A-14662	177 to 209 60 to 99 19 to 37 158 to 169 170 to 178 47 to 52 53 to 59 4 to 14 15 to 26 1 to 7 1 to 24 39 to 58 66 to 83 48 to 52 13 to 25 53 to 56 67 to 95 145 to 170 179 to 210 1 to 9 22 to 35 82 to 93 65 to 78 84 to 94	1954 1954	X		X X X X X X X X X X X	X X X X X X X X	X

1953 To 1955

					T	ide Lev	/el	
Best Cov	Flight Line	Photo Range	Date	Low	Between	Mid	Between	High
9-43	A-19982	9 to 43	1967	Х				
HT	A-20234	1 to 10	1967					Х
68, 69	A-19545	68 to 69	1967				Х	
1,5	A-19575	1 to 5	1967				Х	
14, 16	A-19985	14 to 20	1967			Х		
67, 70- 78	A-19575	67 to 80	1967			Х		
40, 41, 42	A-19514	40 to 42	1967			Х		
42, 43	A-19985	40 to 45	1967				Х	
101, 109	A-19985	100 to 110	1967				Х	
171, 179	A-19985	190 to 170	1967				Х	
181	A-19986	180 to 220	1967			Х		
63- 70	A-19513	55 to 70	1967				Х	
HT	A-19512	130 to 140	1967					Х
204- 212	A-19514	196 to 212	1967		Х			
43, 45	A-19514	43 to 45	1967			Х		
36, 38- 82	A-19995	16 to 90	1967			Х		
172- 184	A-20770	172 to 205	1967			Х		
1- 22	A-20769	1 to 30	1967		Х			
72- 80, 84/ 86	A-20769	60 to 80	1967		Х			
55/ 57	A-20771	55 to 65	1967					
81	A-20769	80 to 81	1967					
64- 68	A-20769	163 to 169	1967			Х		
47- 50, 53, 55	A-19995	145 to 159	1967				Х	
217, 219	A-19995	210 to 221	1967				Х	
				-				
						ide Lev		
Best Cov	Flight Line		Date	Low	Between	Mid	Between	High
1, 19	A-18353	1 to 19	1964				Х	
27, 31		27 to 31	1964	Х				
1- 11/ 21, 23, 25		1 to 25	1964				Х	
75, 101/ 112- 114		70 to 120	1964	Х				
192-194	A-18356	180 to 195 & 170 to 165	1964	Х				
49- 53	A-18439	49 to 60 & 80 to 82	1964	Х				
8, 10	A-18358	5 to 10	1964	Х				
44- 48	A-18439	35-42 / 5-10	1964	Х				
205- 210	A-18352	207 to 210 & 245 to 250	1964	Х				
73- 77	A-18352	115 to 220	1964	Х				
204, 205	A-18352	204 to 206 & 160 to 165	1964	Х				
217	A-18357	214 to 217 & 252 to 254	1964	Х				
29, 31	A-18352	24 to 33	1964	Х				
212	A-18357	200 to 213	1964	Х				
80- 86, 87	A-18357	78 to 90	1964	Х				
61- 65	A-18357	60 to 68	1964	Х				

1964 to 1967

Cobequid	1	1973 10 1970			т	ide Lev	6	
Best Cov	Flight Line	Photo Range	Date	Low	Between	Mid	Between	High
44- 58	A-30671	44 to 58	1973	X	Detween	WIG	Detween	riigii
76- 101, 102	A-30671	75 to 102	1973	X				
134- 148	A-30671	130 to 155	1973	X				
		1 to 10						
1, 2, 4	A-30671		1973	X				
211-217	A-30672	205 to 217	1973	X				
143, 145	A-30672	143 to 150	1973	X				
222/224	A-30671	215 to 224	1973	X				
119, 121	A-30893	118 to 125	1973	X				
175, 176, 178	A-30676	175 to 178	1973	Х				
80- 98	A-30676	80 to 100	1973	Х				
6- 12	A-30676	1 to 15	1973	Х				
155- 163	A-30674	155 to 165	1973	Х				
157- 161	A-30670	150-160	1973	Х				
134, 136	A-30670	130-140	1973		Х			
60, 62	A-30670	55 to 65	1973			X		
59- 61	A-30671	59 to 62	1973	Х				
188, 190	A-30672	188 to 190	1973	Х				
176, 178	A-30671	175 to 178	1973	Х				
103, 105	A-30671	103 to 107	1973	Х				
41, 43	A-30671	40 to 43	1973	Х				
185, 187	A-30672	184 to 187	1973	Х				
179, 181	A-30671	179 to 182	1973	Х				
213, 215	A-30676	212 to 215	1973	X				
Avon								
Best Cov	Flight Line	Photo Range	Date	Low	Between	Mid	Between	High
11- 35	77315	11 to 35	1977	X	Dottroom		20110011	
156-165	77316	156 to 165	1977	X				
145 to 155	77316	145 to 155	1977	X				
132-144	77316	132 to 144	1977	X				
116-131	77316	116 to 131	1977	X				
95-115	77316	95 to 115	1977	X				
69-75/85-94	77316	69 to 75 & 85 to 94	1977	X				
37- 50 / 65* 68	77316	37 to 50 & 65 to 68	1977	Х				
1, 2, 30, 32, 34	77316	1 to 5 & 20 to 36	1977	Х				
1, 3, 5/ 29, 31	78350	1 to 5 & 25 to 32	1977				x	
145-149 / 155-161	77301	145 to 161	1977	Х				
59- 73	77301	59 to 75	1977	Х				
43- 57	77301	40 to 58	1977	Х				
46- 62	77300	46 to 65	1977	Х				
1, 3/ 6, 7/ 11, 19	77300	1 to 20	1977		Х			
	77319	82 to 115	1977					Х
	77319	45 to 81	1977					Х
24, 26	77317	24 to 30	1977		х			
Cape Split	Flight Line	Photo Range	Date	Low	Between	Mid	Between	High
2 to 8	75063	1 to 18	1975	Х				
91 to 121, 122	75044	94 to 122	1975	Х				
77, 84	75044	75 to 93	1975	X				
110, 113, 126, 137	75046	107 to 137	1975	Х				
159 to 164, 194, 198, 299	75041	155 to 199	1975			X		
19, 21, 23	75040	1 to 6 & 19 to 25	1975		_	X		
	Flight Line	Photo Range	Date	Low	Between	Mid	Between	High
178- 198	75038	193 to 198	1975		X			
18 to 27/ 31, 35	75044	6 to 42	1975		Х			
Truro	Flight Line	Photo Range	Date	Low	Between	Mid	Between	High
46-48	75040	104 to 128	1975	Х				
160	75040	135 to 151	1975	Х				
104- 122	75040	152 to 168	1975	Х				
189- 189 / 193-196	75040	169 to 196	1975	Х				
1- 3	75042	1 to 6	1975	Х				
23- 25	75042	22 to 27	1975	Х				
43, 45, 47	75042	43 to 48	1975	Х				
63, 65	75042	63 to 67	1975	Х				
81, 83, 85	75042	81 to 86	1975	х				

1973 to 1978

Cobequid		1981 to 1987						
						ide Lev		
Best Cov 25-29	Flight Line 81314	Photo Range 25 to 30	Date 1981	Low	Between	Mid	Between	High
25-29 1-5/71-75	81312	1 to 6 & 71 to 75	1981	x	X			
78-80/153-155	81312	77 to 82 & 153 to 155	1981	X				
159-161	81312	159 to 161	1981	х				
0	81312	103 to 105	1981					X
2-6,10/45-47	81313	1 to 5, 10 & 45 to 47	1981	x				
44-46/97-99	81313	49 to 35 & 97 to 99	1981	X				
102-110/157-159	81313	102 to110 & 157 to 160	1981	x				
31-69	81314	31 to 59	1981		X			
87-88 90-94/122-123	81314 81314	60 to 89 90 to 95 & 120 to 123	1981 1981		X			
124-132/165-167	81314	124 to 135 & 165 to 167	1981		x x			
1-7	81314	1 to 7 & 210 to 213	1981		x			
1,2,3	81317	1 to 3	1981		X			
2-4/68-70	81318	1 to 5 & 68 to 70	1981		x			
109-111/176-180	81318	109 to 111 & 176 to 180	1981		x			
196-200	81318	195 to 200	1981		x			
0	81326	15 to 19	1981					X
0	81328	145 to 148 & 155 to 157	1981					X
165-179	81332	165 to 180	1981	X				
97-109	81332	97 to 109	1981		x			
16-26	81332	16 to 28	1981	X				
1-3	81335	1 to 3	1981			x		
0	81336	77 to 85	1981					X
0	81336 81337	4 to 22 85 to 90	1981 1981					X X
0	81337	1 to 10	1981					X
Truro	01001		1001		1	ide Lev	el	~
Best Cov	Flight Line	Photo Range	Date	Low	Between	Mid	Between	High
0	85306	30 to 105	1985					X
26-36	85308	26 to 36	1985			х		
18-24	85308	18 to 25	1985			х		
1-9	85308	1 to 9	1985			х		
11-17	85308	10 to 17	1985			х		
190-212	85311	187 to 210	1985			x		
62-70	85311	62 to 72	1985			x		
1-7	85311	1 to 7 & 210 to 213	1985			X		
123-125 56-58	85311 85312	123 to 127 56 to 58	1985 1985		x	x		
77-79	00012	30 10 30	1900		X			
		77 to 79	1085	~				
	85313	77 to 79	1985	x				
36-40	85313 85313	36 to 40	1985	X				
	85313 85313 85313	36 to 40 1 to 5	1985 1985			x		
36-40 1-5	85313 85313	36 to 40	1985	X		x		
36-40 1-5 1-54	85313 85313 85313 85313 85315	36 to 40 1 to 5 1 to 60	1985 1985 1985	X X	X	x		
36-40 1-5 1-54 92-97 / 105-111	85313 85313 85313 85315 85315 85316	36 to 40 1 to 5 1 to 60 92 to 110	1985 1985 1985 1985	X X		X		
36-40 1-5 1-54 92-97 / 105-111 2-4 2-4 0	85313 85313 85313 85315 85316 85316 85316 85317 85319	36 to 40 1 to 5 1 to 60 92 to 110 2 to 4 1 to 5 1 to 5	1985 1985 1985 1985 1985 1985 1985 1985 1985 1985	X X X	x	X		
36-40 1-5 1-54 92-97 / 105-111 2-4 0 2-4 2-4	85313 85313 85313 85315 85316 85316 85316 85317 85319 85321	36 to 40 1 to 5 1 to 60 92 to 110 2 to 4 1 to 5 1 to 5 1 to 5 1 to 5	1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985	x x x x x x	X	x		
36-40 1-5 1-54 92-97 / 105-111 2-4 2-4 0 2-4 2-4 2-4 2-4	85313 85313 85313 85315 85316 85316 85316 85317 85319 85321 85325	36 to 40 1 to 5 1 to 60 92 to 110 2 to 4 1 to 5 1 to 5 1 to 5 2 to 4	1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985	x x x x x x x x	X	x		×
36-40 1-5 1-54 92-97 / 105-111 2-4 2-4 0 2-4 2-4 2-4 2-4 128-130	85313 85313 85313 85315 85316 85316 85316 85317 85319 85321 85325 85330	36 to 40 1 to 5 1 to 60 92 to 110 2 to 4 1 to 5 1 to 5 1 to 5 2 to 4 1 to 5 2 to 4 1 2 to 4 1 to 5 1 to 5 2 to 4 1 2 to 5 2 to 4 1 2 to 4 1 2 to 5 2 to 5 2 to 4 1 2 to 5 2 to 5	1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985	x x x x x x x x x	X	×		
36-40 1-5 1-54 92-97 / 105-111 2-4 2-4 0 2-4 2-4 2-4 128-130 199-200	85313 85313 85313 85315 85316 85316 85316 85317 85317 85321 85325 85320 85330	36 to 40 1 to 5 1 to 60 92 to 110 2 to 4 1 to 5 1 to 5 1 to 5 2 to 4 1 to 5 2 to 4 1 28 to 132 198 to 200	1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985	x x x x x x x x	X	X		x
36-40 1-5 1-54 92-97 / 105-111 2-4 2-4 0 2-4 2-4 2-4 128-130 199-200 2-4	85313 85313 85313 85315 85316 85316 85316 85317 85319 85321 85325 85330	36 to 40 1 to 5 1 to 60 92 to 110 2 to 4 1 to 5 1 to 5 1 to 5 2 to 4 1 to 5 2 to 4 1 2 to 4 1 to 5 1 to 5 2 to 4 1 2 to 5 2 to 4 1 2 to 4 1 2 to 5 2 to 5 2 to 4 1 2 to 5 2 to 5	1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985	x x x x x x x x x				x
36-40 1-5 1-54 92-97 / 105-111 2-4 2-4 2-4 0 2-4 2-4 128-130 199-200 2-4 Avon	85313 85313 85313 85315 85316 85316 85316 85317 85317 85321 85321 85325 85330 85330 85331	36 to 40 1 to 5 1 to 60 92 to 110 2 to 4 1 to 5 1 to 5 1 to 5 2 to 4 1 to 5 2 to 4 1 to 5 2 to 4 1 28 to 132 198 to 200 1 to 5	1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985	X X X X X X X X X		ide Leve		
36-40 1-5 1-54 92-97 / 105-111 2-4 2-4 2-4 0 2-4 2-4 128-130 199-200 2-4 Avon Best Cov	85313 85313 85315 85316 85316 85316 85317 85319 85321 85325 85330 85330 85330 85331 Flight Line	36 to 40 1 to 5 1 to 60 92 to 110 2 to 4 1 to 5 1 to 5 1 to 5 2 to 4 1 to 5 2 to 4 1 to 5 2 to 4 128 to 132 198 to 200 1 to 5 Photo Range	1985 1985	x x x x x x x x x		ide Leve Mid	el	x
36-40 1-5 1-54 92-97 / 105-111 2-4 2-4 2-4 0 2-4 2-4 128-130 199-200 2-4 Avon	85313 85313 85315 85315 85316 85316 85317 85319 85325 85325 85330 85330 85330 85331 Flight Line 87301	36 to 40 1 to 5 1 to 60 92 to 110 2 to 4 1 to 5 1 to 5 1 to 5 2 to 4 128 to 132 198 to 200 1 to 5 Photo Range 43 to 46	1985 1985	X X X X X X X X X		ide Leve	el	
36-40 1-5 1-54 92-97 / 105-111 2-4 2-4 0 2-4 2-4 2-4 128-130 199-200 2-4 Avon Best Cov n/a	85313 85313 85315 85316 85316 85316 85317 85319 85321 85325 85330 85330 85330 85331 Flight Line	36 to 40 1 to 5 1 to 60 92 to 110 2 to 4 1 to 5 1 to 5 1 to 5 2 to 4 1 to 5 2 to 4 1 to 5 2 to 4 128 to 132 198 to 200 1 to 5 Photo Range	1985 1985	X X X X X X X X X		ide Leve Mid	el	
36-40 1-5 1-54 92-97 / 105-111 2-4 2-4 2-4 2-4 2-4 2-4 128-130 199-200 2-4 Avon Best Cov n/a 32-46	85313 85313 85315 85316 85316 85316 85317 85319 85321 85325 85330 85330 85330 85330 85331 Flight Line 87301 87301	36 to 40 1 to 5 1 to 60 92 to 110 2 to 4 1 to 5 1 to 5 1 to 5 2 to 4 128 to 132 198 to 200 1 to 5 Photo Range 43 to 46 32 to 42	1985 1987	X X X X X X X X X		ide Leve Mid X X	el	
36-40 1-5 1-54 92-97 / 105-111 2-4 2-4 2-4 2-4 2-4 2-4 2-4 128-130 199-200 2-4 Avon Best Cov n/a 32-46 76-82 67-70/73-75 56-58/63-65	85313 85313 85313 85315 85316 85316 85316 85316 85317 85319 85321 85325 85330 85330 85330 85330 85331 Flight Line 87301 87301 87301 87301	36 to 40 1 to 5 1 to 60 92 to 110 2 to 4 1 to 5 1 to 5 2 to 4 1 to 5 2 to 4 1 to 5 2 to 4 128 to 132 198 to 200 1 to 5 Photo Range 43 to 46 32 to 42 76 to 83 67 to 70 & 73 to 75 56 to 58 & 63 to 65	1985 1987 1987 1987 1987 1987	X X X X X X X X X		Fide Levo Mid X X X	el	
36-40 1-5 1-54 92-97 / 105-111 2-4 2-4 2-4 2-4 2-4 2-4 2-4 2-4	85313 85313 85313 85315 85316 85316 85316 85317 85319 85321 85325 85330 85330 85330 85330 85331 Flight Line 87301 87301 87301 87301 87301	36 to 40 1 to 5 1 to 60 92 to 110 2 to 4 1 to 5 1 to 5 1 to 5 2 to 4 1 28 to 132 198 to 200 1 to 5 Photo Range 43 to 46 32 to 42 76 to 83 67 to 70 & 73 to 75 56 to 58 & 63 to 65 84 to 86 & 92 to 94	1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1987 1987 1987 1987 1987 1987	X X X X X X X X X		ide Levo Mid x x x x	el	High
36-40 1-5 1-54 92-97 / 105-111 2-4 2-4 2-4 2-4 2-4 2-4 2-4 128-130 199-200 2-4 Avon Best Cov n/a 32-46 76-82 67-70/73-75 56-58/63-65	85313 85313 85313 85315 85316 85316 85317 85319 85321 85325 85330 85330 85330 85331 Flight Line 87301 87301 87301 87301 87301	36 to 40 1 to 5 1 to 60 92 to 110 2 to 4 1 to 5 1 to 5 2 to 4 1 to 5 2 to 4 1 28 to 132 198 to 200 1 to 5 Photo Range 43 to 46 32 to 42 76 to 83 67 to 70 & 73 to 75 56 to 58 & 63 to 65 84 to 86 & 92 to 94 17 to 21 & 29 to 31	1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987	X X X X X X X X X		ide Lev Mid x x x x x x	el	High
36-40 1-5 1-54 92-97 / 105-111 2-4 2-4 2-4 2-4 2-4 2-4 2-4 128-130 199-200 2-4 Avon Best Cov n/a 32-46 76-82 67-70/73-75 56-58/63-65 84-86/92-94 0 0	85313 85313 85313 85315 85316 85316 85316 85317 85319 85325 85330 85330 85330 85330 85330 85331 Flight Line 87301 87301 87301 87301 87301 87301	36 to 40 1 to 5 1 to 60 92 to 110 2 to 4 1 to 5 1 to 5 1 to 5 1 to 5 2 to 4 128 to 132 198 to 200 1 to 5 Photo Range 43 to 46 32 to 42 76 to 83 67 to 70 & 73 to 75 56 to 58 & 63 to 65 84 to 86 & 92 to 94 17 to 21 & 29 to 31 14 to 16	1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987	X X X X X X X X X		ide Lev Mid x x x x x x	el Between	High
36-40 1-5 1-54 92-97 / 105-111 2-4 2-4 2-4 2-4 2-4 2-4 2-4 128-130 199-200 2-4 Avon Best Cov n/a 32-46 76-82 67-70/73-75 56-58/63-65 84-86/92-94 0 0 151-153	85313 85313 85313 85313 85315 85316 85316 85317 85316 85317 85316 85317 85317 85310 85325 85330 85330 85331 Flight Line 87301 87301 87301 87301 87301 87301 87301 87301 87301 87301 87301 87301 87301	36 to 40 1 to 5 1 to 60 92 to 110 2 to 4 1 to 5 1 to 5 1 to 5 1 to 5 2 to 4 128 to 132 198 to 200 1 to 5 Photo Range 43 to 46 32 to 42 76 to 83 67 to 70 & 73 to 75 56 to 58 & 63 to 65 84 to 86 & 92 to 94 17 to 21 & 29 to 31 14 to 16 150 top 153	1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987	X X X X X X X X X		ide Lev Mid x x x x x x	el Between	High
36-40 1-5 1-54 92-97 / 105-111 2-4 2-4 2-4 2-4 2-4 2-4 2-4 2-4	85313 85313 85313 85313 85315 85316 85316 85317 85316 85317 85316 85317 85317 85310 85311 85325 85330 85330 85331 Flight Line 87301 87301 87301 87301 87301 87301 87301 87301 87301 87301 87301 87304	36 to 40 1 to 5 1 to 60 92 to 110 2 to 4 1 to 5 1 to 5 1 to 5 2 to 4 1 to 5 2 to 4 128 to 132 198 to 200 1 to 5 Photo Range 43 to 46 32 to 42 76 to 83 67 to 70 & 73 to 75 56 to 58 & 63 to 65 84 to 86 & 92 to 94 17 to 21 & 29 to 31 14 to 16 150 top 153 127 to 132	1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987	X X X X X X X X X		ide Lev Mid x x x x x x	el Between x x	High
36-40 1-5 1-54 92-97 / 105-111 2-4 2-4 2-4 2-4 2-4 2-4 2-4 2-4	85313 85313 85313 85315 85316 85316 85316 85317 85319 85321 85325 85330 85330 85330 85330 85330 85331 Flight Line 87301 87301 87301 87301 87301 87304 87304 87304	36 to 40 1 to 5 1 to 60 92 to 110 2 to 4 1 to 5 1 to 5 1 to 5 2 to 4 1 to 5 2 to 4 128 to 132 198 to 200 1 to 5 Photo Range 43 to 46 32 to 42 76 to 83 67 to 70 & 73 to 75 56 to 58 & 63 to 65 84 to 86 & 92 to 94 17 to 21 & 29 to 31 14 to 16 150 top 153 127 to 132 102 to 106	1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987	X X X X X X X X X		ide Lev Mid x x x x x x	el Between x x x x	High
36-40 1-5 1-54 92-97 / 105-111 2-4 2-4 2-4 2-4 2-4 2-4 2-4 2-4	85313 85313 85313 85315 85316 85316 85316 85317 85319 85321 85325 85330 85330 85330 85330 85330 85330 85330 85331 Flight Line 87301 87301 87301 87301 87301 87304 87304 87304	36 to 40 1 to 5 1 to 60 92 to 110 2 to 4 1 to 5 1 to 5 1 to 5 2 to 4 1 to 5 2 to 4 1 to 5 2 to 4 128 to 132 198 to 200 1 to 5 Photo Range 43 to 46 32 to 42 76 to 83 67 to 70 & 73 to 75 56 to 58 & 63 to 65 84 to 86 & 92 to 94 17 to 21 & 29 to 31 14 to 16 150 top 153 127 to 132 102 to 106 74 to 76	1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1987	X X X X X X X X X		ide Lev Mid x x x x x x	el Between x x	High
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36-40 1-5 1-54 92-97 / 105-111 2-4 2-4 2-4 2-4 2-4 2-4 2-4 2-4	85313 85313 85313 85315 85316 85316 85316 85317 85319 85325 85330 85330 85330 85330 85330 85331 Flight Line 87301 87301 87301 87301 87301 87301 87301 87304 87304 87304 87304 87304	36 to 40 1 to 5 1 to 60 92 to 110 2 to 4 1 to 5 2 to 4 128 to 132 198 to 200 1 to 5 Photo Range 43 to 46 32 to 42 76 to 83 67 to 70 & 73 to 75 56 to 58 & 63 to 65 84 to 86 & 92 to 94 17 to 21 & 29 to 31 14 to 16 150 top 153 127 to 132 102 to 106 74 to 76 200 to 214 55 to 67 110 to 117 & 125 to 127	1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1987	X X X X X X X X X		ide Lev Mid x x x x x x	el Between x x x x x x x x x x x x x	High

		1991 to 1995						
Avon River						Tide Leve		
Best Cov	Flight Line	, j	Date	Low	Between	Mid	Between	High
154-158/163-165		154 to 158 & 163 to 165	1992	X				
141-145 115-117		141 to 145 & 151 to 153 115 to 118	1992 1992	<u>x</u>				
90-92		88 to 92	1992	x				
93-95		193 to 195	1992	~	1		x	
55		50 to 68	1992				x	
45-47/52-54 & 58		43 to 58	1992	X				
170-178/183-185/189-199		170 to 185 & 190 to 195	1992			x		
95-101/108-110/117,124		95 to 112 & 118 to 124	1992				X	
49-63 96, 108		48 to 58 96 to 108	1992 1992	x				
19, 26, 30		18 to 23 & 26 to 30	1992	x x				
61-63/67,98		62 to 64 & 66 to 68	1992	X				
0		82 to 84	1992					X
26-32/77-81	92391	25 to 84	1992				x	
2-6/10-12		1 to 11	1992			Х		
1-5		1 to 6	1992			х		
1-5	92319	1 to 5	1992				X	
141-143 19-23		141 to 143	1992				x	
Cobequid	92317	19 to 23	1992			x Tide Leve		
Best Cov	Flight Line	Photo Range	Date	Low	Between	Mid	Between	High
123-129		123 to 130	1994	X	Detween	inita	Detween	ingi
2-6	94001		1994	x				
112-122		111 to 122	1994	x				
10-14/24-48		10 to 14 & 24 to 46	1994		x			
53-57		52 to 58	1994		x			
7-9	94001		1994	X				
198-202		197 to 202	1994	X				
1-9/13/17-23		1 to 25	1994	X				
137-141/145-147		136 to 141 & 145 to 147	1994	x				
94-102 46-56		93 to 94 46 to 52 & 54 to 56	1994 1994	x x				
40-50 Truro	92333	46 10 52 & 54 10 56	1994	X		Tide Leve		
Best Cov	Flight Line	Photo Range	Date	Low	Between	Mid	Between	High
59-75		60-70 / 74-76	1994		x			
73		67 to 73	1994	х				
124-128		124 to 128	1994	x				
1-3	94002		1994	X				
68-70		98 to 70	1994	X				
197-199		196 to 198	1994	X				
1-3		1 to 3	1994	X				
132-134 204		132 to 134 203 to 204	1994 1992	X X				
35-66		63 to 66	1992	<u>x</u>				
31-33		31 to 34	1992	x				
166-168		166 to 168	1992	x				
131-135		132 to 134	1992	x				
90-92	92333	89 to 92	1992	X				
Cape Split						Tide Leve		
Best Cov	Ų	Photo Range	Date	Low	Between	Mid	Between	High
97-74	94008	67 to 74	1991					X
0		247 to 255	1993					X
<mark>1-9</mark> 2-6		1 to 9 1 to 2	<u>1991</u> 1991			×		X
190-194/201-206		195 to 201	1991	x		X		
22-24		22 to 24	1991	x				
1-3		1 to 3	1991	x				
44-48	94009	44 to 48	1991	x				
0	94014	189 to 193	1991					X
1-9		1 to 9	1995		x			
11-37		10 to 37	1995		x			
0		58 to 64 & 70 to 86	1995					X
114 120		179 to 181 & 190 to 199	1995					X
114-129 1-9		114 to 123 1 to 9	1994 1994	X		~		
2-8		1 to 9	1994		<u> </u>	x	x	
	92317		1992	X			^	
2-6	02017		1992	x				
2-6 8-18	92317	/ 10 18	337					
2-6 8-18 195-197/200-202	92317 92316	194 to 203	1992	<u>x</u>				
8-18 195-197/200-202 186-187/191-192	92316 92316	194 to 203 186 to 193	1992 1992	X X				
8-18 195-197/200-202	92316 92316 92316	194 to 203	1992	X				

Avon River Totol Lino Phol Dage Date No Revense Mid Servense Mid 119, 121 02507 119 to 121 2002 X Image Servense Mid Servense Mid Servense			2000's						
119, 121 0.2307 119 to 121 2002 X Image: Constraint of the second s		Flight Line		Date	Low				High
148 0.2307 1/5 to 145 2002 X N N 71, 72 0.2307 70 to 72 2002 X N N 71, 72 0.2307 90 to 82 86 to 100 2002 X N N 71, 72 0.2307 90 to 82 86 to 100 2002 X N N 71, 72 0.2308 110 r4 2002 X N N 73, 81 0.2308 110 to 72 2002 X N N 73, 85 0.2308 81 to 87 2002 X N N 76, 80 0.2308 81 to 87 2002 X N N 77, 141, 16 0.2308 115 to 125 Å 129 to 142 2002 X N N 77, 147, 141 73 0.2322 115 to 125 Å 129 to 142 2002 X N N 71, 147, 141 73 0.2329 149 to 134 2003 N X N 121 - 127, 133, 142/ 131, 130 0.2329 149 to 133 2003 N X N 121 - 127, 134, 142/ 131, 130 0.2329 149 to 133 2003 N X N 132 - 144, 810 to 140 2004 X N N </td <td></td> <td>, in the second s</td> <td></td> <td></td> <td></td> <td>201110011</td> <td></td> <td>20110011</td> <td></td>		, in the second s				201110011		20110011	
71, 72 0.2307 70 b 72 2002 X Image: Second Sec	148	02307		2002	Х				
90. 92.98, 99 02307 90. 10 92 & 80 in 00 2002 X Image: Section of the sect				2002					
2.4 02308 1 to 4 2002 X N N 153, 15 02308 1 11 to 15 2002 X N N 153, 150 165 2002 X N N N 153, 150 165 2002 X N N N 153, 150 165 2002 X N N N 154, 161 02308 151 01 151 151 151 151 151 151 151 151 1									
13. 15 02308 111 10 115 2002 X Image: Start									
153, 159-161 02308 153 to 165 2002 X X X 61: 67 02308 81 to 67 2002 X X X X 67: 80 02308 81 to 67 2002 X									
37,38 02308 38 to 37 2002 X X Image: state sta									
81-87 02308 83 to 60 2002 X Image: State in the state i					X				
76.80 02308 83 to 80 2002 X N N 17.711.16 02309 11 to 7 A 111 to 118 2002 X N N 121-125/138, 142/131, 330 02322 115 to 128 A 124 to 143 2002 X X N 110, 112, 114 02327 112 to 154 A 160 to 75 2002 X X N 118, 145, 147 02329 142 to 144 2002 X X N 118, 145, 147 02329 142 to 144 2002 X X N 118, 145, 147 02339 140 to 22 0203 X X N 112, 125, 103, 124 to 143 116 to 77 2003 X X N N 114, 22 03317 14 to 22 2003 X X N N N 1422 03317 14 to 22 2003 X X N N N 1422 04337 10 to 16 2004 X N					v		X		
1,77(1),16, 02309 1 to 7 & 111 to 116 2002 X N									
121-125/138, 142/131, 133 02322 115 to 125 & 129 to 142 2002 X Image: Constraint of the second seco									
147-149/173 02322 112 to 114 2002 X X X 143, 145, 147 02327 112 to 114 2002 X X X 143, 145, 147 02329 142 to 146 2002 X X X 189, 195, 197, 202, 203 02329 142 to 146 2003 X X X 18, 195, 197, 202, 203 03302 14 to 22 2003 X X X 18, 20 03302 14 to 22 2003 X X X X 03306 81 to 107 2003 X X X X X X 14.422 03317 14 to 22 2003 X					~	X			
110. 112. 114 02227 112 to 114 2000 N X 1 189. 195. 197. 202. 203 02229 189 to 203 2000 X Image: 187 to 2000 Image: 187 to 2000 X Image: 187 to 2000						A	x		
143, 145, 147 0229 142 to 146 2000 X Image: Second							<u>^</u>	x	
189, 195, 197, 202, 203 0239 189 to 203 2002 X Image: Constraint of the constraint of								~	x
14/23.25 03301 15 to 17 2003 X X V 03308 162 to 164.8 4 69 to 173 2003 X X X 03308 162 to 164.8 4 69 to 173 2003 X X X 03308 91 to 107 2003 X X X X 03308 91 to 107 2003 X X X X 89 99 03321 90 to 96 2004 X X X X 93, 84/ 29, 31, 33/ 40, 42 04309 83 to 84 2004 X X X X 94317 150 to 154 2004 X <t< td=""><td></td><td></td><td></td><td></td><td></td><td>Х</td><td></td><td></td><td>~</td></t<>						Х			~
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04317 150 to 154 2004 Image: Constraint of the second	83, 84/ 29, 31, 33/ 40, 42	04308	83 to 84	2004			х		
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1.3.5 04328 1 to 5 2004 X X 1.3.5 04331 1 to 5 2004 X X 42705 04331 1 2 to 16 2004 X X X Truro Truro Tide Level Between Mid Between H 61-78 04316 67 to 80 2004 X X X X 199-197 04312 193 to 196 2004 X X X X 93-101 04320 91 to 100 2004 X X X X 13,3 04321 103 to 33 2004 X X X X 13,33 04321 103 to 105 2004 X X X X 103,105 04321 103 to 105 2004 X X X X 102,104 04323 102 to 104 2004 X X X X 104,104 04323 102 to 104 2004 X X X X X						Х			
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183, 185, 187 04320 184 to 187 2004 X Image: constraint of the state	10- 26 199- 197	04312 04312	8 to 26 193 to 196	2004 2004 2004			Х	Detween	
31, 33 04321 31 to 33 2004 X Image: constraint of the second sec	10- 26 199- 197 93- 101	04312 04312 04320	8 to 26 193 to 196 91 to 100	2004 2004 2004 2004			Х		
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102, 104 04323 102 to 104 2004 X Tide Level Tide Level Best Cov Flight Line Photo Range Date Low Between Mid Between H 9-15 04314 1 to 7 2004 X	10-26 199-197 93-101 22-24 183,185,187 31,33	04312 04312 04320 04320 04320 04320 04321	8 to 26 193 to 196 91 to 100 21 to 24 184 to 187 31 to 33	2004 2004 2004 2004 2004 2004 2004	X	x	Х		
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