



ST. LAWRENCE RIVER

INTERNATIONAL BOUNDARY COMMISSION
 U.S.-ALASKA AND CANADA
 DIAGRAM OF TRIANGULATION ALONG THE ST. LAWRENCE RIVER
 SHOWING STATIONS BY SYMBOL AND NUMBER
 To Accompany List of Stations
 Scale of Statute Miles

INTERNATIONAL BOUNDARY COMMISSION

UNITED STATES & CANADA

(Printed by U. S. Coast & Geodetic Survey)

Key to numbered stations

ST. LAWRENCE RIVER TRIANGULATION DIAGRAM

Numbers preceded by * are old stations not recovered by I.B.C. and no geographic positions available with I.B.C. data.

1. Cornwall East Church, Catholic		86. [Bradford (USLS)
2. St. Regis East Base		76 (IWC)
3. St. Regis West Base		* 87. 75 (IWC)
4. [Ref. Mon. 3		* 88. 78 (IWC)
5. U.S.L.S. 8 Ecc.		* 89. 77 (IWC)
6. [Ref. Mon. 4		90. 80 (IWC)
7. Mon. 774		* 91. 82 (IWC)
8. Ref. Mon. 1		* 92. 75 (IWC)
9. 3 (IWC)		* 93. 84 (IWC)
10. 2 (IWC)		* 94. 79A (IWC)
11. 5 (IWC)		* 95. 86 (IWC)
12. 4 (IWC)		* 96. 81 (IWC)
13. 7 (IWC)		* 97. 83 (IWC)
14. [11 (IWC)		98. 88 (IWC)
15. 6 (IWC) (USLS 8)		* 99. 85 (IWC)
16. 8 (IWC) (USLS 6)		100. [90 (IWC)
17. 13 (IWC)		* 101. 87 (IWC) (USLS)
18. 10 (IWC)		* 102. 92 (IWC)
19. [15 (IWC)		* 103. 89 (IWC)
20. [12 (IWC)		* 104. 91 (IWC)
21. [14 (IWC)		* 105. 92A (IWC)
22. 17 (IWC)		* 106. 94 (IWC)
23. 16 (IWC)		* 107. 93 (IWC)
24. [18 (IWC)		* 108. 96 (IWC) (Ref. Mon. 35)
25. Massena Pt. (USLS)		109. 98 (IWC)
26. 21 (IWC) (USLS 16)		110. 95 (IWC)
27. [20 Ecc. (IWC)		111. 97 (IWC)
28. Cornwall East Base		112. [100 (IWC)
29. Cornwall West Base		* 113. 102 (IWC)
30. 20 (IWC)		* 114. 99 (IWC)
31. 22 (IWC)		* 115. 102A (IWC)
32. 25 (IWC) (USLS 18)		* 116. 101 (IWC)
33. [26 (IWC)		* 117. 104 (IWC)
34. 27 (IWC)		* 118. 103 (IWC)
35. 29 (IWC)		119. 106 (IWC)
36. 28 (IWC)		* 120. 105 (IWC)
37. 30 (IWC)		121. 108 (IWC)
38. 31 (IWC)		* 122. 107 (IWC)
39. 33 (IWC)		* 123. 110 (IWC)
40. 32 (IWC)		* 123A. 109 (IWC)
41. 34 (IWC)		* 124. 111 (IWC)
42. 35 (IWC)		* 125. 112 (IWC)
43. 36 (IWC)		* 126. 113 (IWC)
44. 38 (IWC)		* 127. 114 (IWC)
45. 37 (IWC)		* 128. 115 (IWC)
46. 39 (IWC)		* 129. 117 (IWC)
47. 40 (IWC)		* 130. 116 (IWC)
48. 42 (IWC) (Ref. Mon. 16)		* 131. 119 (IWC)
49. [29 (USLS)		132. 118 (IWC)
50. [41 (IWC)		* 133. 119A (IWC)
51. [43 (IWC)		* 134. 120 (IWC)
52. 45 (IWC)		* 135. 121 (IWC)
53. 46 (IWC)		* 136. 122 (IWC)
54. 48 (IWC)		137. 123 (IWC) (Cardinal East Base)
55. 47 (IWC)		* 138. 124 (IWC) (Cardinal West Base)
56. 49 (IWC)		139. 125 (IWC)
57. 50 (IWC)		* 140. 126 (IWC)
58. 52 (IWC)		141. 128 (IWC)
59. 51 (IWC)		* 142. 127 (IWC)
60. 54 (IWC) (Ref. Mon. 20)		143. [130 (IWC)
61. 53 (IWC)		* 144. 129 (IWC) (Wagner (USLS)
62. 54A (IWC)		145. Red Mill (USLS) (132 IWC)
63. 53A (IWC)		* 146. 131 (IWC)
64. 55A (IWC)		* 147. 133 (IWC)
65. 56 (IWC)		* 148. 134 (IWC)
66. 58 (IWC) (Ref. Mon. 21)		* 149. 135 (IWC)
67. 57 (IWC)		* 150. 136 (IWC)
68. 60 (IWC)		151. 137 (IWC)
69. 59 (IWC)		* 152. 138 (IWC)
70. 62 (IWC)		* 153. 139 (IWC)
71. 61 (IWC)		* 154. 140 (IWC)
72. 64 (IWC)		* 155. 141 (IWC)
73. 63 (IWC)		* 156. 142 (IWC)
74. 66 (IWC)		* 157. 143 (IWC)
75. 65 (IWC)		* 158. 144 (IWC)
76. 67 (IWC)		* 159. 145 (IWC)
77. 68 (IWC)		* 160. 146 (IWC)
78. 69 (IWC)		* 161. 147 (IWC)
79. 70 (IWC)		* 162. 148 (IWC)
80. 71 (IWC) (Whalen USLS)		* 163. 149 (IWC)
81. 72 (IWC)		164. 150 (IWC) (Morristown Point USLS)
82. 73 (IWC)		165. 151 (IWC)
83. 74 (IWC)		166. 153 (IWC) (Ref. Mon. 55)
84. 73A (IWC)		167. Morristown Standpipe
85. 74A (IWC)		168. Granite (USC&GS)
		* 169. 152 (IWC)
		170. 154 (IWC)
		* 171. 155 (IWC)
		172. [157 (IWC)
		[XXI A.C.L. (USLS)
		173. 156 (IWC)
		174. 159 (IWC)
		* 175. 158 (IWC)
		* 176. 161 (IWC)
		* 177. 160 (IWC)
		* 178. 163 (IWC)
		179. 162 (IWC)
		180. 165 (IWC)
		181. 164 (IWC)
		* 182. 167 (IWC)
		183. 166 (IWC)
		* 184. 169 (IWC)
		185. 168 (IWC)
		* 186. 170 (IWC)
		* 187. 171 (IWC)
		* 188. 172 (IWC)
		189. 173 (IWC)
		190. 174 (IWC)

- * 191. 175 (IWC)
 192. [177 (IWC)
 Tuesday (USLS)
 193. 176 (IWC)
 194. 179 (IWC)
 195. 178 (IWC)
 196. 181 (IWC) (Bluff USLS)
 197. 183 (IWC)
 198. [180 (IWC)
 Alexandria (USLS)
 199. 182 (US)
 200. 184 (IWC)
 201. 185 (IWC)
 202. 187 (IWC)
 203. 186 (IWC)
 204. 188 (IWC)
 205. 189 (IWC)
 206. 190 (IWC)
 207. 191 (IWC)
 208. 192 (IWC)
 209. 193 (IWC)
 210. 194 (IWC)
 211. 195 (IWC)
 212. 196 (IWC)
 213. 197 (IWC)
 214. 198 (IWC)
 215. 199 (IWC)
 216. 200 (IWC)
 217. 201 (IWC)
 218. 203 (IWC)
 219. 202 (IWC)
 220. 205 (IWC)
 221. 204 (IWC)
 * 222. 206 (IWC)
 223. 207 (IWC) (Ref. Mon. 85)
 224. 209 (IWC) (Ref. Mon. 86)
 * 225. 211 (IWC)
 * 226. 208 (IWC)
 * 227. 210 (IWC)
 * 228. 215 (IWC)
 * 229. 212 (IWC)
 230. Cape Vincent West Base (USLS)
 231. Cape Vincent East Base (USLS)
 232. U.S.L.S. 13
 233. Twain
 234. Ref. Mon. 2
 235. Mott
 236. Ref. Mon. 5
 237. [Ref. Mon. 6
 7 (USLS)
 238. Ref. Mon. 7
 239. [Ref. Mon. 8
 3 (USLS)
 240. Azimuth Monument
 241. Ref. Mon. 9
 242. Ref. Mon. 10
 243. Ref. Mon. 11
 244. Ref. Mon. 12
 245. Ref. Mon. 13
 246. 34 1938
 247. Ref. Mon. 14
 248. Ref. Mon. 15
 249. Ref. Mon. 17
 250. [Ref. Mon. 18
 33 (USLS)
 251. Ref. Mon. 19
 252. Croils Island (USLS)
 253. 59 Sub.
 254. 60 Sub.
 255. Ref. Mon. 22
 256. 61 Sub.
 257. 62 New
 258. Ref. Mon. 23
 259. 63 Sub.
 260. 64 Sub.
 261. Ref. Mon. 24
 262. 66 Sub.
 263. 65 Sub.
 264. Ref. Mon. 25
 265. McLeod (USLS)
 266. 68 Sub.
 267. 69 Sub.
 268. 70 Sub.
 269. Ref. Mon. 26
 270. [73 Sub.
 Wells (USLS)
 271. 74 Sub.
 272. Wilson (USLS)
 273. 73A Sub.
 274. Ref. Mon. 27
 275. 74A Sub.
 276. 75 Sub.
 277. Cryaler
 278. Ref. Mon. 28
 278A. 78 Sub.
 279. Ref. Mon. 29
 280. 77 Sub.
 281. Ref. Mon. 30
 282. 79 Sub.
 283. 84 Sub.
 284. 86 Sub.
 285. Ref. Mon. 31
 286. 79A Sub.
 287. Morrisburg East Base (USLS)
 288. Morrisburg West Base (USLS)
 289. 81 Sub.
 290. 83 Sub.
 291. 85 Sub.
 292. [Ref. Mon. 32
 Ref. Mon. 32 Ecc.
 87 Sub.
 293. Murphy 1939
 294. 92 Sub.
 295. 92 Sub.
 296. Ref. Mon. 33
 297. 89 Sub.
 298. 91 Sub.
 299. 92A Sub.
 300. 94 Sub.
 301. 96 Sub.
 302. Ref. Mon. 34
 303. Azimuth Monument (I.W.C.)
 304. Ref. Mon. 36
 305. 102 Sub.
 306. 99 Sub.
 307. Ref. Mon. 37
 308. 102A Sub.
 309. 101 Sub.
 310. 104 Sub.
 311. Ref. Mon. 38
 312. 103 Sub.
 313. Ref. Mon. 39
 314. 105 Sub.
 315. 107 Sub.
 316. Ref. Mon. 40
 317. 110 Sub.
 318. Ref. Mon. 41
 319. 109 Sub.
 320. 111 Sub.
 321. 112 Sub.
 322. 113 Sub.
 323. Ref. Mon. 42
 324. 114 Sub.
 325. 117 Sub.
 326. 116 Sub.
 327. Ref. Mon. 43
 328. 119 Sub.
 329. Ref. Mon. 44
 330. 119A Sub.
 331. 120 Sub.
 332. 121 Sub.
 333. Ref. Mon. 45
 334. 122 Sub.
 335. Ref. Mon. 46
 336. 124 Sub.
 337. [126 Sub.
 Sparrowhawk (USLS)
 338. 128 Sub.
 339. Ref. Mon. 47
 340. Elevator
 341. 130 Sub.
 342. 130A
 343. Gal
 344. Ref. Mon. 48
 345. Ref. Mon. 49
 346. [129 Sub.
 Gallops (USLS)
 Adams
 Ref. Mon. 50
 348. [Weir 1939
 North Boundary Tablet on Weir
 South Boundary Tablet on Weir
 131 Sub.
 350. 131 Sub.
 351. Ref. Mon. 51
 352. Drummond Island (USLS)
 353. 133 Sub.
 354. [134 Sub.
 Chimney Point (USLS)
 Ref. Mon. 52
 355. [Windmill
 Frazers (USLS)
 Windmill Point (USLS)
 357. 135 Sub.
 358. 135 Sub.
 359. Ogdensburg West Base (USLS)
 360. [B.M. 27
 Ogdensburg West Base (USLS)
 2 (USLS)
 Ferry (USLS)
 Ref. Mon. 53
 362. 139 Sub.
 363. 140 Sub.
 364. 141 Sub.
 365. 141 Sub.
 366. Nevins (USLS)
 367. Guernsey 2 (USLS)
 368. 143 Sub.
 369. H2-1902 (USLS)
 370. 145 Sub.
 371. T (USLS)
 372. 146 Sub.
 373. [147 Sub.
 Maitland (USLS)
 374. 148 Sub.
 375. 149 Sub.
 376. Ref. Mon. 54
 377. K (USLS)
 378. Eaton (USLS)
 379. 152 Sub.
 380. 155 Sub.
 381. Brookville Presbyterian Church, Spire
 382. Ref. Mon. 56
 383. Chapman (USLS)
 384. Moulson (USLS)
 385. [Taylor (USLS)
 Taylor Ecc.
 R.M. No. 2 (Taylor USLS)
 386. McDonald (USLS)
 387. Halls Dock (USLS)
 388. Ref. Mon. 57
 389. Mollys Gut (USLS)
 390. Ref. Mon. 58
 391. Birch 1939
 392. 163 Sub.
 393. Oak Point (USLS)
 394. 162 Sub.
 395. Ref. Mon. 59
 396. Whaleback (USLS)
 397. Peach (USLS)
 398. Sifton (USLS)
 399. Blind Bay (USLS)
 400. Ingall (USLS)
 401. Chippewa (USLS)

Key to Numbered Stations
St. Lawrence River Triangulation Diagram

402.	Ref. Mon. 60	511.	191 Sub.
403.	169 Sub.	512.	Jones (IWC)
404.	Griswold (USLS)	513.	Melville (IWC)
405.	Gull (USLS)	514.	193 Sub.
406.	170 Sub.	515.	Ref. Mon. 80
407.	171 Sub.	516.	195 Sub.
408.	Ref. Mon. 61	517.	197 Sub.
409.	172 Sub.	518.	[Finis Sub. [Finis (IWC)
410.	Point (USLS)	519.	Ref. Mon. 81
411.	[Lyons (USLS) (1902) [Lyons (USLS) (1872)	520.	198 Sub.
412.	175 Sub.	521.	Ref. Mon. 82
413.	Eliassa	522.	Ref. Mon. 83
414.	Ref. Mon. 62	523.	200 Sub.
415.	Whiskey (IWC)	524.	Ref. Mon. 84
416.	Whiskey (USLS)	525.	205 Sub.
417.	Sport (IWC)	526.	206 Sub.
418.	Grenadier Sub.	527.	211 Sub.
419.	Yeo Sub.	528.	210 Sub.
420.	Ref. Mon. 63 Ecc.	529.	213 Sub.
421.	Ref. Mon. 63	530.	[215 Sub. [215 Sub. Ref. Mark
422.	Little (IWC)	531.	Rainy (USLS)
423.	Club (IWC)	532.	Ellis (USLS)
424.	Ref. Mon. 64	533.	212 Sub.
425.	Mary (IWC)	534.	218 Sub.
426.	Pole Sub.	535.	219 (IWC)
427.	Ref. Mon. 65	536.	Ref. Mon. 87
428.	Park (IWC)	537.	220 Sub.
429.	Point Sub.	538.	217 (IWC)
430.	Laundry (IWC)	539.	221 Sub.
431.	Mon. (IWC)	540.	222 (IWC) (Tibbetts Pt. Lighthouse)
432.	Sand Sub.	541.	223 (IWC)
433.	Marsh (IWC)	542.	Bear Point (USLS)
434.	Ref. Mon. 66	543.	Ref. Mon. 88
435.	Tank (IWC)	544.	St. Regis Church
436.	Hunt	545.	St. Regis Reef Back Light
437.	Mims	546.	Cornwall West Church, Catholic
438.	Chris	547.	Riverdale, Anglican Church, Spire
439.	Craft	548.	Morrisburg, United Church, Spire
440.	Ref. Mon. 67	549.	Morrisburg, Catholic Church, Spire
441.	Waterloo (USLS)	550.	Morrisburg, Anglican Church, Spire
442.	Hill (USLS)	551.	U.S.L.S. Monument (112-Sub. Ref. Mark No. 4)
443.	Isles	552.	Iroquois, Anglican Church, Spire
444.	[Lower Sub. [Lower (IWC)	553.	Iroquois, United Church, Spire
445.	Rock (IWC)	554.	Cardinal Church, Spire
446.	QQ (IWC)	555.	North Channel Dyke Lighthouse
447.	Shack (IWC)	556.	
448.	Upper Sub.	557.	
449.	Ref. Mon. 68	558.	Johnson Elevator, Flagpole
450.	Ref. Mon. 69	559.	Windmill Point Lighthouse
451.	P.P. Sub.	560.	Prencott, St. Johns Anglican Church, Spire
452.	DD Sub.	561.	[Ogdensburg Lighthouse [Ogdensburg Lighthouse (USLS)
453.	CC Sub.	562.	Catholic School, Chimney, East of Brockville
454.	OO Sub.	563.	Brooks Point (USLS)
455.	BB Sub.	564.	Brockville Asylum, Chimney
456.	NN (IWC)	565.	Brockville, United Church, Spire
457.	Z Sub.	566.	Bay State Shoal Light
458.	Ref. Mon. 70	567.	Crossover Island Light
459.	AA Sub.	568.	Superior Shoal Light
460.	Y Sub.	569.	Bridge Island Light
461.	Ref. Mon. 71	570.	Sister Island Light
462.	X Sub.	571.	Excelsior Group Light
463.	L Sub.	572.	Grenadier Island Light
464.	W Sub.	573.	
465.	K Sub.	574.	Rockport, Presbyterian Church, Spire
466.	V Sub.	575.	Club Island, Stone Water Tank
467.	J Sub.	576.	
468.	I Sub.	577.	Island, (IWC), Lake of the Isles
469.	U Sub.	578.	Lindoe Island, Light
470.	H Sub.	579.	Gananoque Narrows Light
471.	G Sub.	580.	Jackstraw Shoal Light
472.	T (IWC) (R.M. 72)	581.	Gananoque, Church of England, Spire
473.	F. Sub.	582.	Mermaid (IWC)
474.	S. Sub.	583.	Howe (IWC)
475.	E Sub.	584.	Burnt Island Light
476.	R (IWC)	585.	Hickory (IWC)
477.	D Sub.	586.	Wolfe Island Light
478.	Q (IWC)	587.	Linda Island, Light
479.	O (IWC) (R.M. 73)	588.	Wolfe Island, Catholic Church, Spire
480.	P (IWC)	589.	Riverview, Church Spire
481.	B (IWC)	590.	Carlton Island General Electric Co., Water Tank
482.	O (IWC)	591.	
483.	Ref. Mon. 74 Ecc. (IWC)	592.	Cape Vincent Breakwater, East End Light
484.	Ref. Mon. 74	593.	Cape Vincent Breakwater, West End Light
485.	A Sub.	594.	
486.	N (IWC)	595.	Carleton (USLS)
487.	Stone (IWC)	596.	Daly (USLS)
488.	Sir (IWC)	597.	Vincent (USLS)
489.	View (IWC)	598.	Vandegriff (USLS)
490.	View Sub.	599.	Dorr Farm (USLS) 1873
491.	Spill Sub.	600.	Dorr Farm (USLS) 1914
492.	Ref. Mon. 75	601.	Clayton South Base (USLS)
493.	Row (IWC)	602.	Clayton North Base (USLS)
494.	Grand (IWC)	603.	Bear Hill (USLS)
495.	Grand-Sub.	604.	Hogsback (USLS)
496.	189 Sub.	605.	Finley (USLS)
497.	Long (IWC)	606.	Brennan (USLS)
498.	Round (IWC)	607.	Maitland SW. Base (USLS)
499.	Ref. Mon. 76	608.	Maitland NE. Base (USLS)
500.	End Sub.	609.	[1000 Islands Bridge, NW. Light (USC&GS) [1000 Islands Bridge, NE. Light (USC&GS)
501.	Mion Sub.	610.	[1000 Islands Bridge, SW. Light (USC&GS) [1000 Islands Bridge, SE. Light (USC&GS)
502.	Peak (IWC)	611.	[1000 Islands Bridge, NW. Light (USC&GS) [1000 Islands Bridge, NE. Light (USC&GS)
503.	Ref. Mon. 77	612.	[1000 Islands Bridge, SW. Light (USC&GS) [1000 Islands Bridge, SE. Light (USC&GS)
504.	Grind (IWC)	613.	Maple Grove (USLS)
505.	Death (IWC)	614.	25 (USLS)
506.	Ref. Mon. 78	615.	Maple Grove, West Base (USLS)
507.	Dock (IWC)	616.	Maple Grove, East Base (USLS)
508.	Ref. Mon. 79 Ecc. (IWC)	617.	20 (USLS)
509.	Ref. Mon. 79	618.	27 (USLS)
510.	Punt 1940		
510.	Leek (IWC)		

* No geographic position available; see page 1

619. Moulinette (USLS)
 620. 22 (USLS)
 621. 26 (USLS)
 622. 35 (USLS)
 623. Ault (USLS)
 624. Casselman (USLS)
 625. Lawrence (USLS)
 626. Smith (USLS)
 627. Waddington (USLS)
 628. Ogden (USLS)
 629. Robertson (USLS)
 630. Pine Tree (USLS)
 631. Ames (USLS)
 632. Jinks (USLS)
 633. Iroquois (USLS)
 634. Sharps (USLS)
 635. Binion (USLS)
 636. Wort (USLS)
 637. Statham (USLS)
 638. Edwardsburg (USLS)
 639. Johnstown (USLS)
 640. 37 (USLS)
 641. [Ogdensburg, East Base (USLS)
 [Ogdensburg, East Base 2
 642. Henry (USLS)
 643. Railroad (USLS)
 644. G (USLS)
 645. [Brockville Rock 2 (USLS)
 [Brockville Rock (USLS)
 646. Campbell (USLS)
 647. Birch Point (USLS)
 648. Fulford (USLS)
 649. Slide (USLS)
 650. Whitney (USLS)
 651. Chimney (USLS)
 652. Grenadier (USLS)
 653. Dingman (USLS)
 654. Darling (USLS)
 655. Wells No. 2 (USLS)
 656. Smoke (USLS)
 657. Cherry (USLS)
 658. Dark Island (USLS)
 659. Manz (USLS)
 660. B (USLS)
 661. A (USLS)
 662. Poole (USLS)
 663. Thousand Island House (USLS)
 664. Excelsior (USLS)
 665. Turkey (USLS)
 666. Ironsides (USLS)
 667. Cooks Point (USLS)
 668. Ina (USLS)
 669. Deer (USLS)
 670. Third Brother (USLS)
 671. Echo (USLS)
 672. Rift (USLS)
 673. Rock (USLS)
 674. Wind (USLS)
 675. St. Lawrence (USLS)
 676. Fisher (USLS)
 677. Park (USLS)
 678. Garlock (USLS)
 679. Crawford (USLS)
 680. Beckwith (USLS)
 681. Cal (USLS)
 682. Chapman (USLS)
 683. Round Island (USLS)
 684. Washington Island Pier Light (USLS)
 685. Bartlett Point, Light (USLS)
 686. Union Park, Front Range Light (USLS)
 687. Sunken Rock Shoal, Light (USLS)
 688. Sunken Rock, Light (USLS)
 689. Tripod Shoal, Light (USLS)