Delta Volume Calculation

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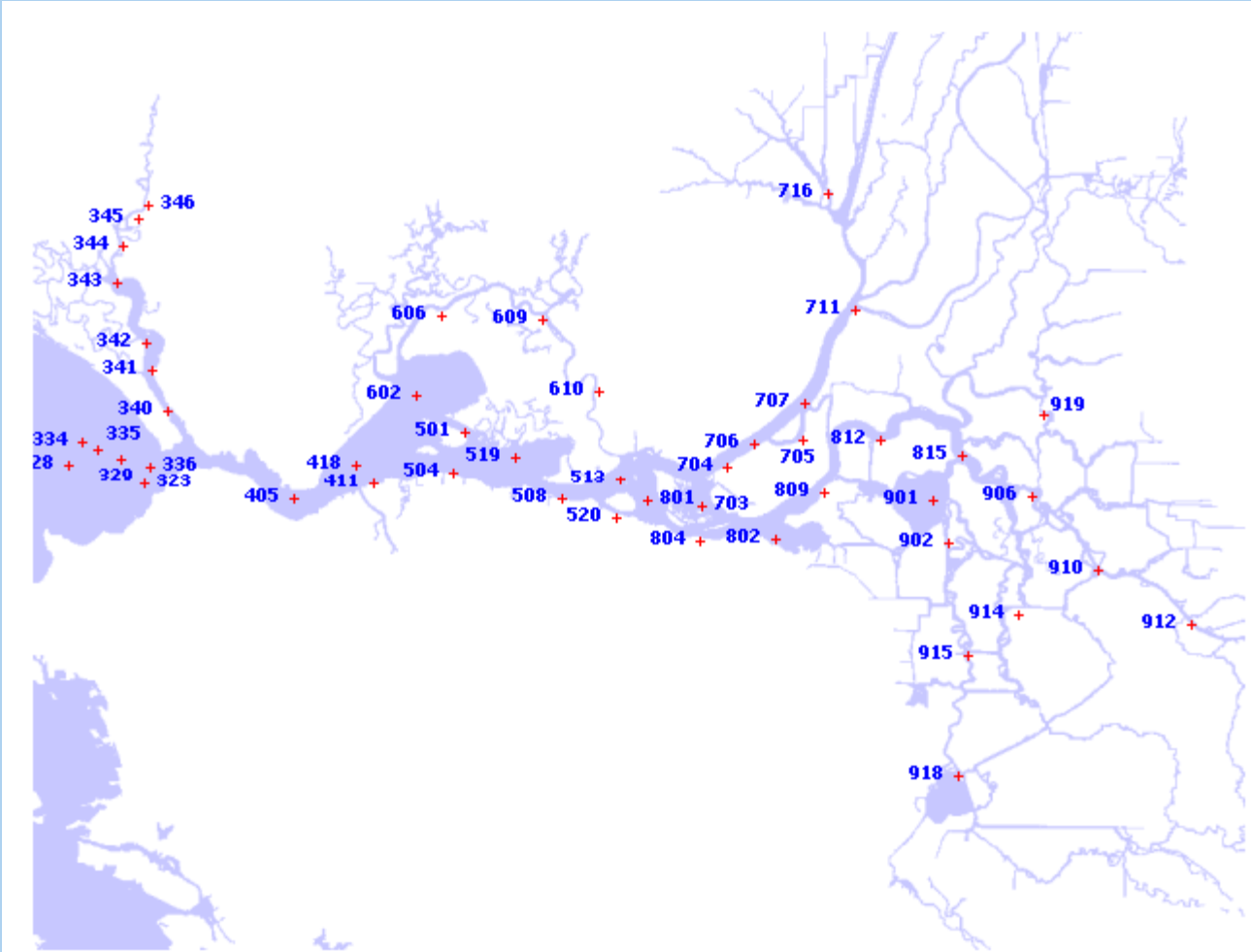
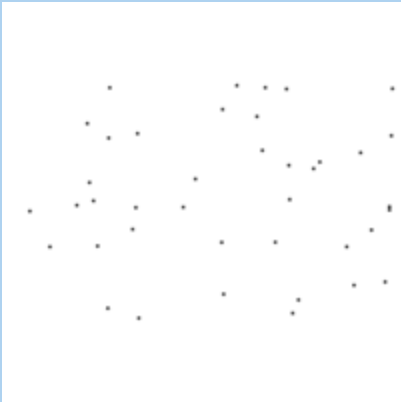
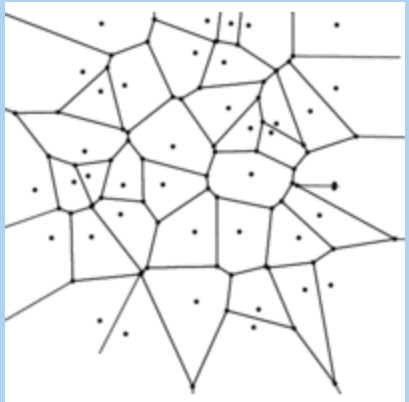
Station Map of 20 mm Delta-Smelt Survey



Voronoi Diagram

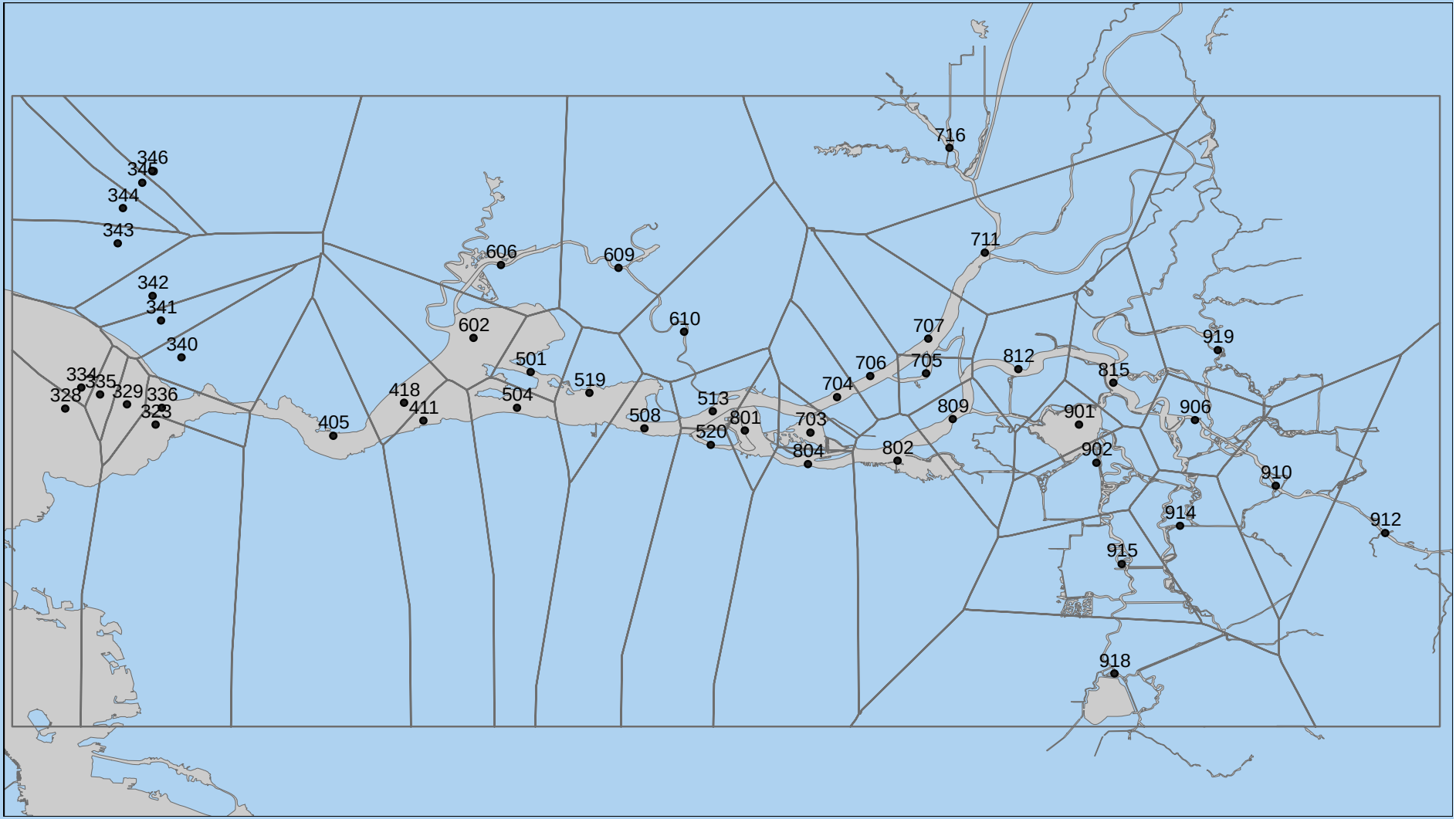
Voronoi diagrams represent the region of influence around each of a given set of sites.

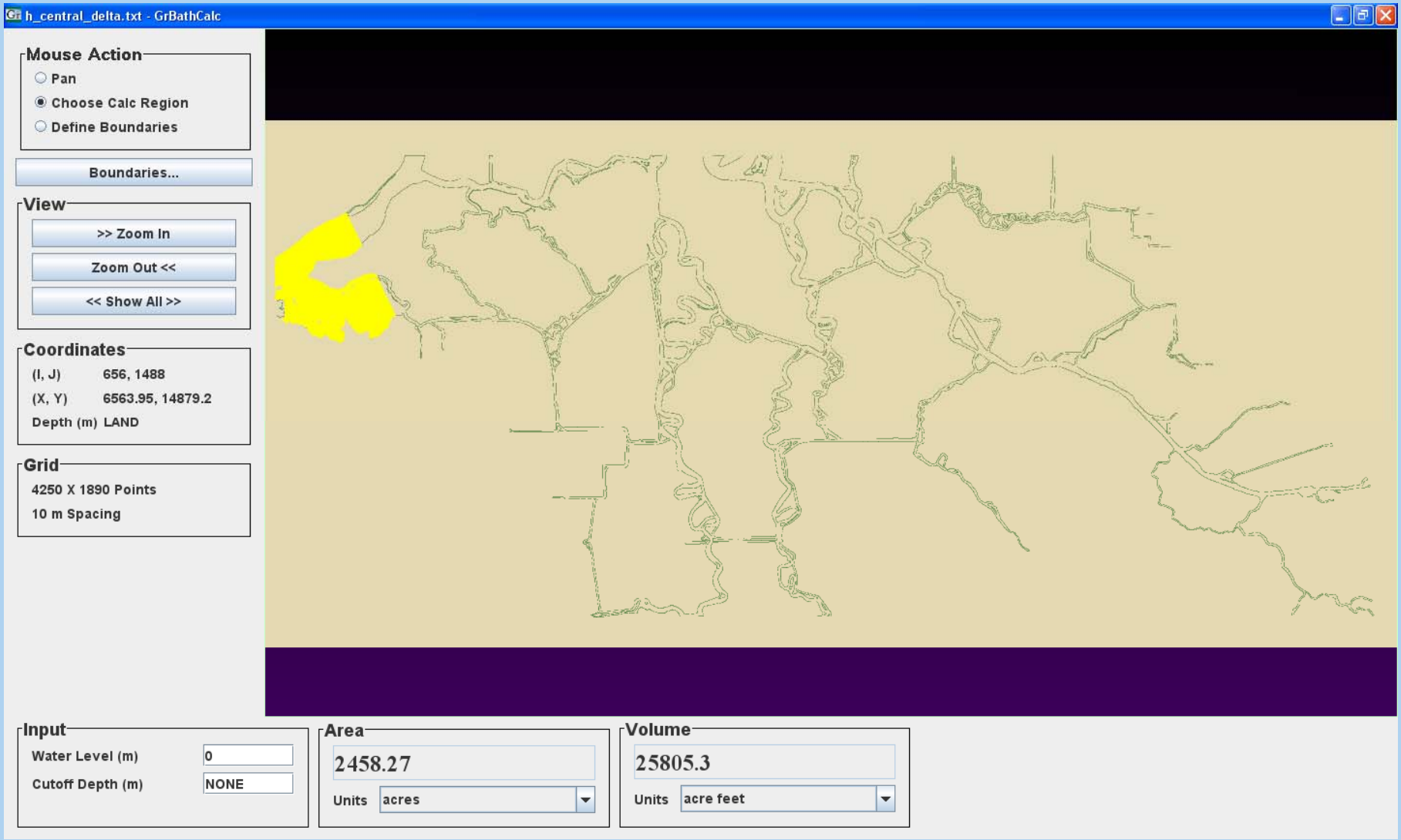




If these dots represent the locations of survey stations, the Voronoi diagram partitions space into cells around each station.

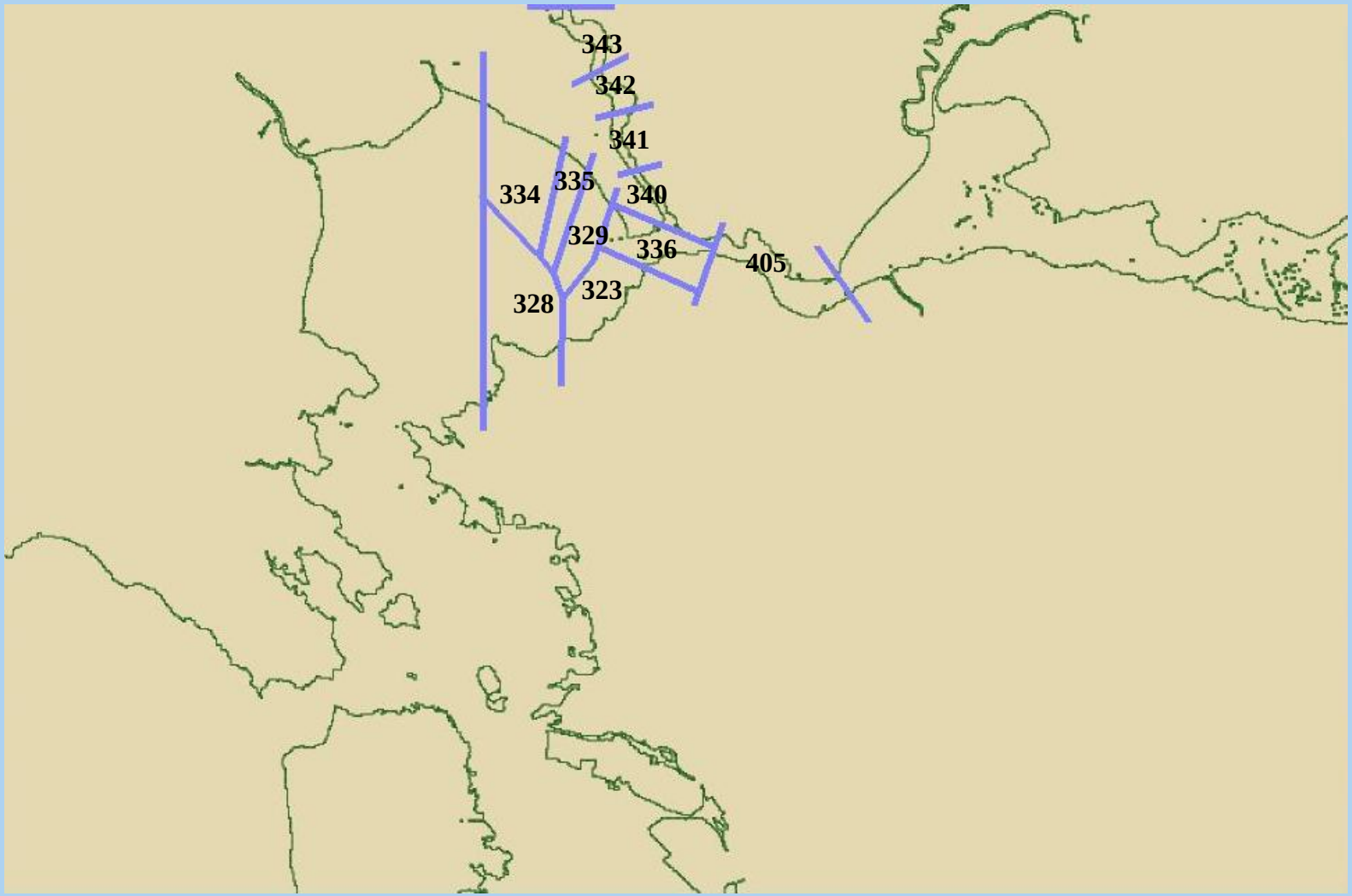
Voronoi Diagram Used For Setting Up Boundary To Calculate Volume



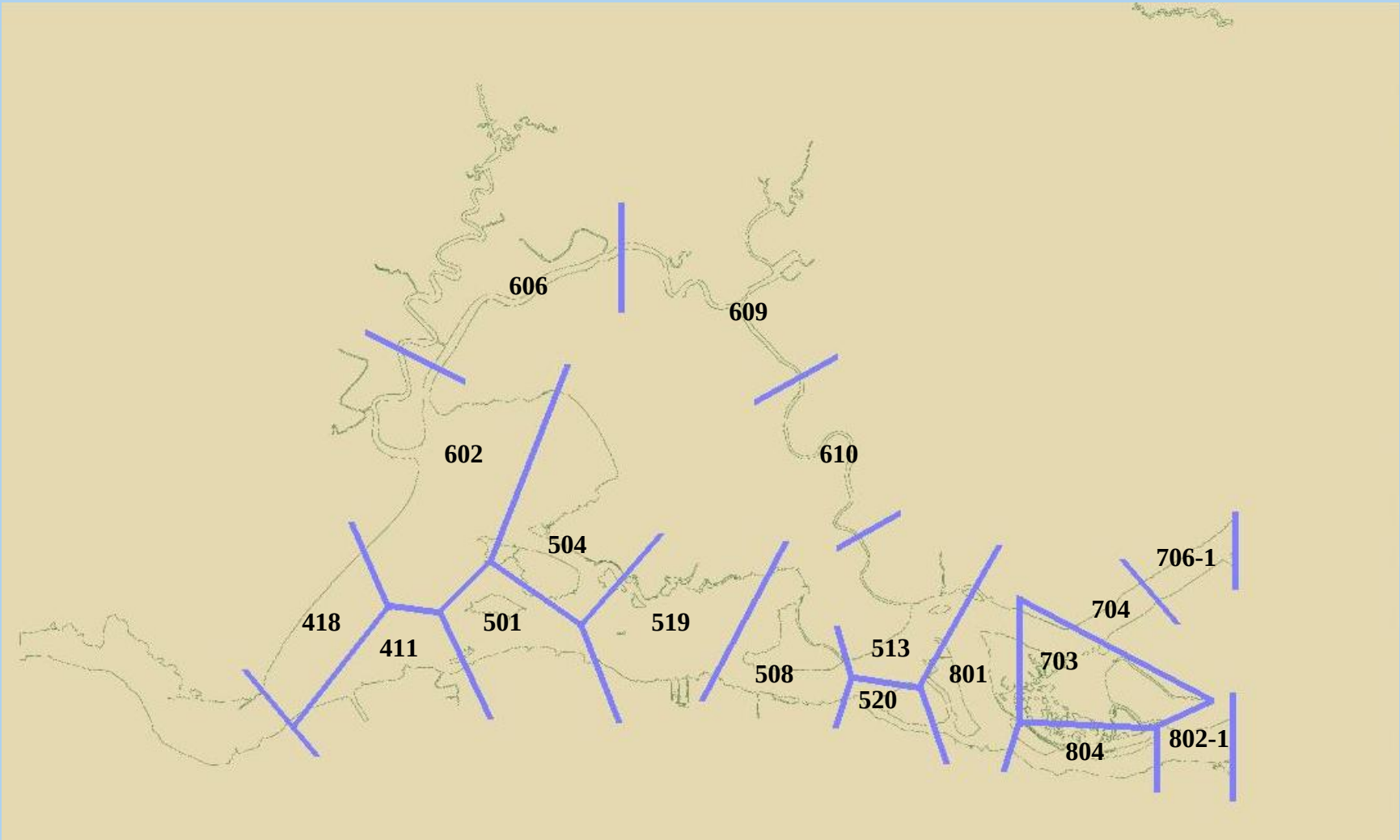


Developed by John Donovan

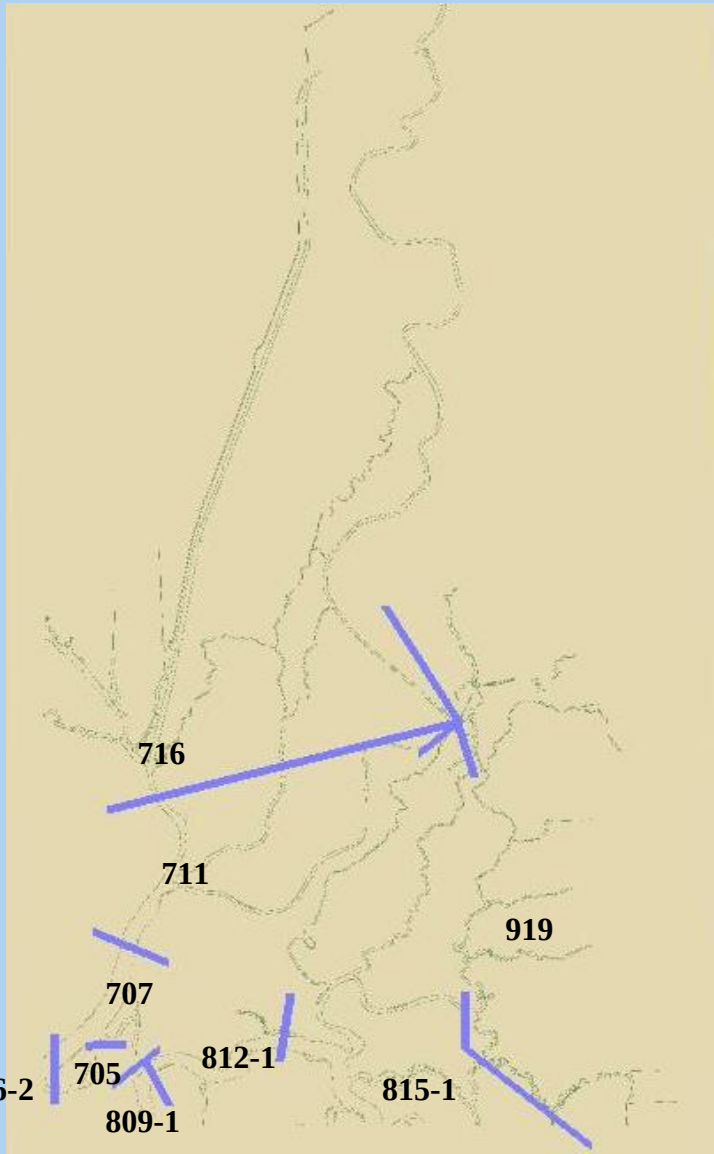
Station Boundary for Volume Calculation in San Francisco Bay



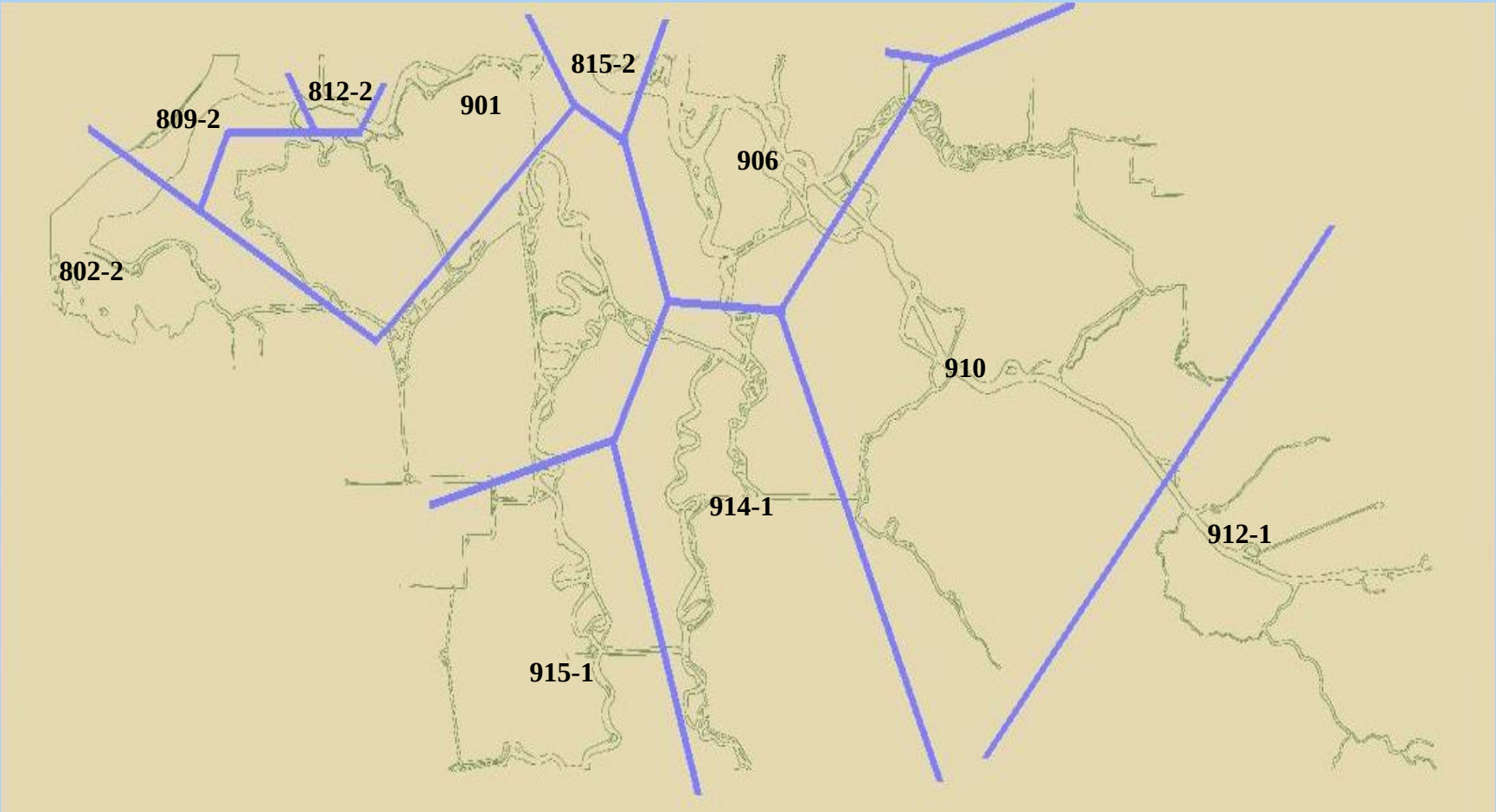
Station Boundary for Volume Calculation in Suisan Marsh



Station Boundary for Volume Calculation in Northern Delta



Station Boundary for Volume Calculation in Central Delta



Station Boundary for Volume Calculation in Southern Delta

Calculated Surface Area and Volume of 20 mm Delta-Smelt Survey Stations

Survey Station	Surface Area (acre)	Volume (acre-feet)
328	8,323	125,594
334	6,746	37,177
335	2,316	17,747
329	3,060	43,508
323	3,945	49,475
336	2,604	87,591
343	1,156	7,055
342	713	6,243
341	617	9,213
340	552	9,792
405	3,547	139,804
418	2,756	63,186
411	2,119	37,344
501	3,692	36,856
504	2,403	44,046
602	7,361	72,852
606	1,332	17,685
609	727	8,114
610	259	3,156
519	4,101	67,942
508	2,296	53,344
513	1,703	41,921
520	438	12,130

Survey Station	Surface Area (acre)	Volume (acre-feet)
801	2,226	45,662
703	2,091	25,853
804	1,195	32,119
802	3,546	45,094
704	605	15,952
706	931	24,539
705	277	3,741
707	1,859	37,076
711	1,994	39,391
716	6,219	103,592
809	1,392	33,562
812	1,767	43,810
815	4023	72053
919	2,043	20,702
901	3,822	33,855
902	1,744	22,095
906	1,780	32,694
910	1,925	25,760
912	1,225	13,747
914	1,554	23,552
915	1,146	13,302
918	1,601	14,685

Thank You