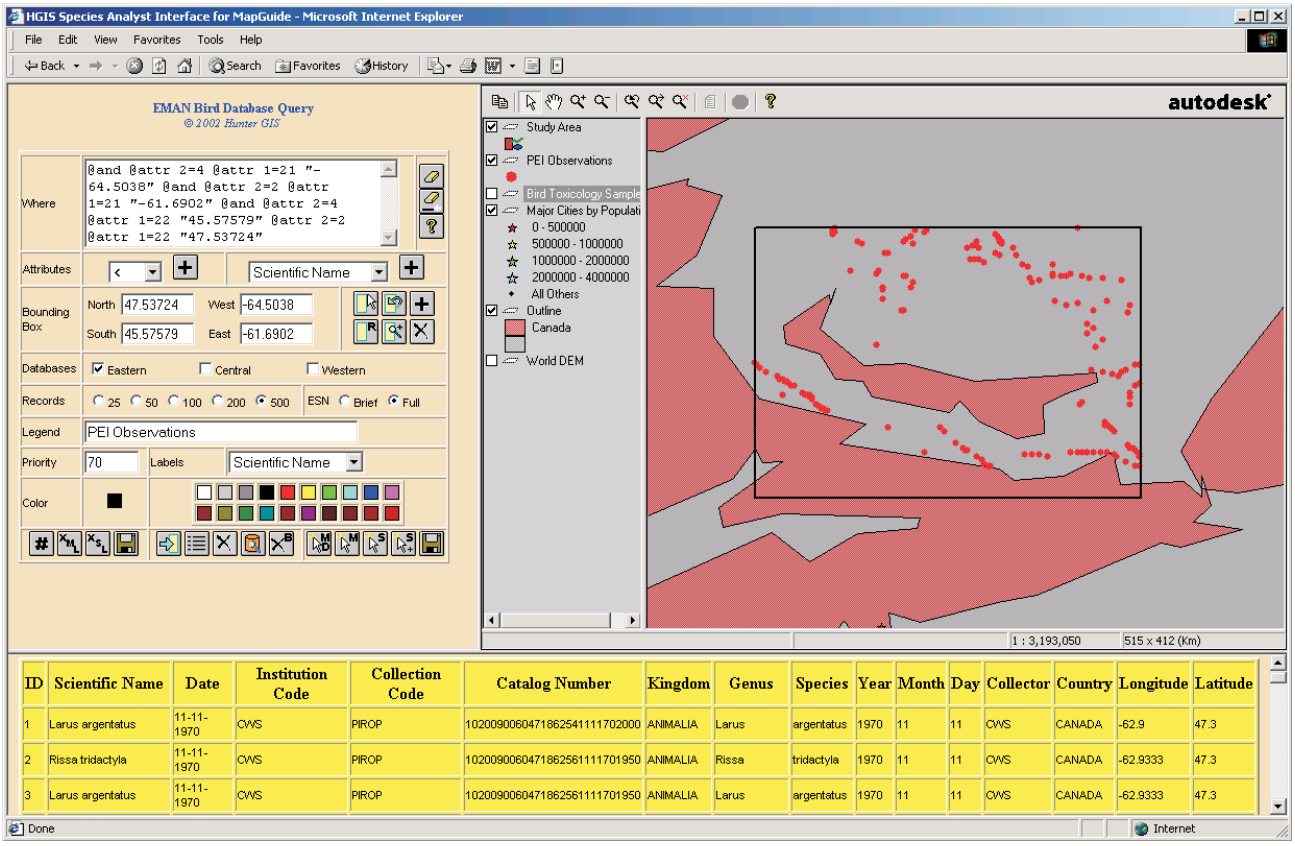
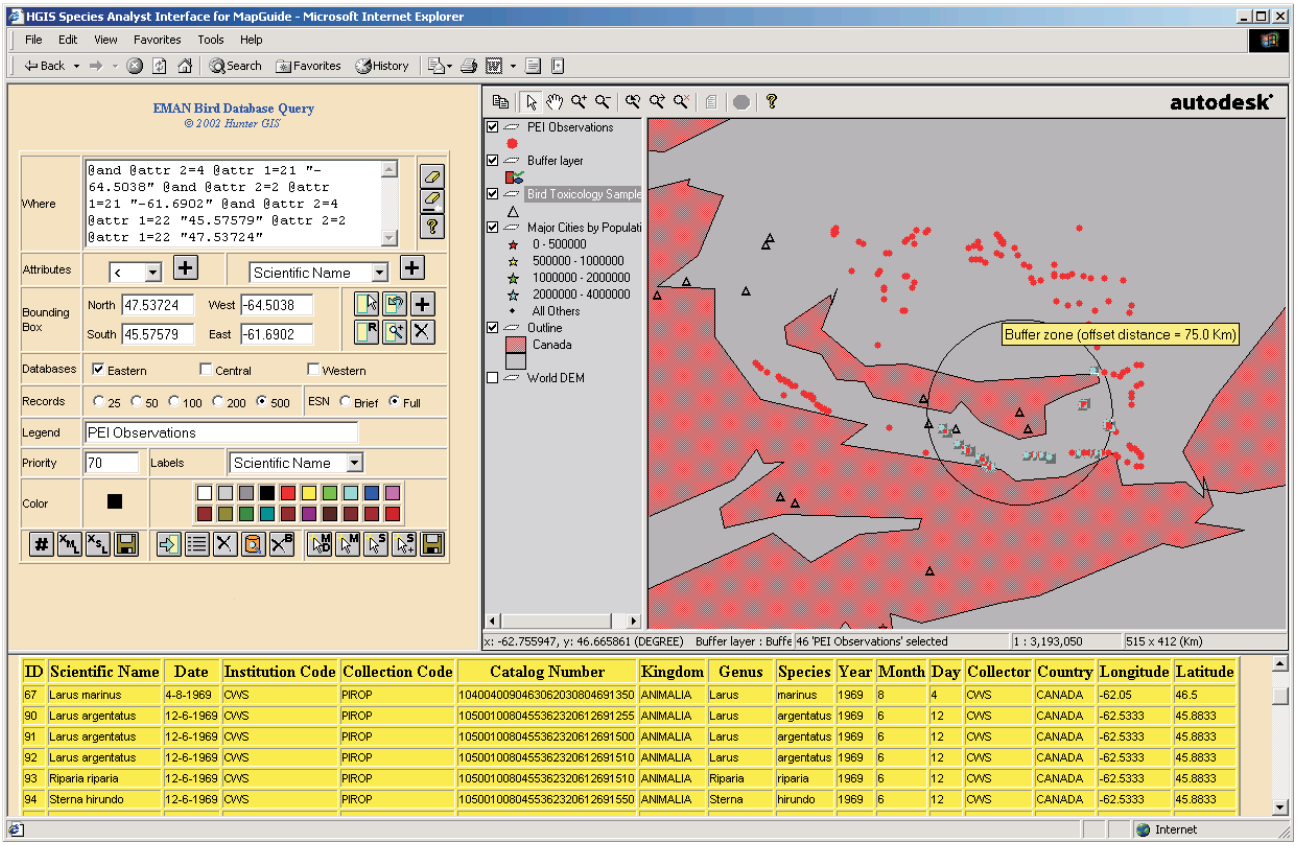
Species Analyst Interface



ID	Scientific Name	Date	Institution Code	Collection Code	Catalog Number	Kingdom	Genus	Species	Year	Month	Day	Collector	Country	Longitude	Latitude
1	Larus argentatus	11-11-1970	CWS	PIROP	10200900604718625611117020000	ANIMALIA	Larus	argentatus	1970	11	11	CWS	CANADA	-62.9	47.3
2	Rissa tridactyla	11-11-1970	CWS	PIROP	10200900604718625611117019500	ANIMALIA	Rissa	tridactyla	1970	11	11	CWS	CANADA	-62.9333	47.3
3	Larus argentatus	11-11-1970	CWS	PIROP	10200900604718625611117019500	ANIMALIA	Larus	argentatus	1970	11	11	CWS	CANADA	-62.9333	47.3



ID	Scientific Name	Date	Institution Code	Collection Code	Catalog Number	Kingdom	Genus	Species	Year	Month	Day	Collector	Country	Longitude	Latitude
67	Larus marinus	4-8-1969	CWS	PIROP	10400400904630620308046913 50	ANIMALIA	Larus	marinus	1969	8	4	CWS	CANADA	-62.05	46.5
90	Larus argentatus	12-6-1969	CWS	PIROP	10500100804553623206126912 55	ANIMALIA	Larus	argentatus	1969	6	12	CWS	CANADA	-62.5333	45.8833
91	Larus argentatus	12-6-1969	CWS	PIROP	10500100804553623206126915 00	ANIMALIA	Larus	argentatus	1969	6	12	CWS	CANADA	-62.5333	45.8833
92	Larus argentatus	12-6-1969	CWS	PIROP	10500100804553623206126915 10	ANIMALIA	Larus	argentatus	1969	6	12	CWS	CANADA	-62.5333	45.8833
93	Riparia riparia	12-6-1969	CWS	PIROP	10500100804553623206126915 10	ANIMALIA	Riparia	riparia	1969	6	12	CWS	CANADA	-62.5333	45.8833
94	Sterna hirundo	12-6-1969	CWS	PIROP	10500100804553623206126915 50	ANIMALIA	Sterna	hirundo	1969	6	12	CWS	CANADA	-62.5333	45.8833

Introduction

The Hunter GIS Species Analyst Interface for MapGuide (SAIM) is a set of software components that enables observations queried from the Species Analyst network to be graphically displayed through Autodesk's MapGuide Server. The interface provides the following capabilities:

- query single or multiple Species Analyst data providers
- drop-down lists of searchable items and comparison attributes
- delineation of study areas through a rubberband box on the map, or from entry of boundary extents
- add layers to the map reflecting the queries, with user control over colors and labels
- view the data of the queried observations as XML or in tabular format
- download the data of the queried observations as an XML file
- report on observations falling within polygon objects selected on the map (point-in-polygon analysis)

System Operation

The Species Analyst Interface for MapGuide (SAIM) may be considered as three components:

- the client (or user), which consists of a browser, preferably Microsoft's Internet Explorer (MSIE), and the MapGuide Viewer, an ActiveX Control (or plug-in for Netscape) with an Application Program Interface (API) accessible through JavaScript and VBScript. The client sends requests to the SAIM server to add/delete layers to/from the map based on Species Analyst queries, or to return XML/XSL data of the observations meeting the queries.

- the SAIM Server, on which is loaded MapGuide Server, the Dynamic Authoring Toolkit and Active Server Pages. The SAIM Server receives requests from and returns data to the client. The data is obtained by passing a query as an HTTP request to the Species Analyst Network (TSA), receiving the resultant XML from the TSA, reformatting it, then sending the response to the client.

- the Species Analyst Network, or more specifically, the Search.asp script that takes a query and returns XML.