Using ArcGIS to create maps to display demographic information

We will be using ArcGIS and the GeoEye map to spatially tag points on the map and export them to a system that can be taken into the field and collect survey data referenced to specific geographic location. Once this information has been collected it can then be uploaded back into the ArcGIS program and used to create maps of the Muhuru Bay area showing the results of the survey data.

INSTRUCTIONS:

- 1. Acquire map of Muhuru Bay from GeoEye
- 2. Create a Polygon Shapefile layer (.lyr) on top of the GeoEye image and use to separate the Muhuru Bay region into different quadrants.
- 3. Create a Point Shapefile layer (.lyr) for each quadrant and mark each dwelling with a geographically referenced point.
- 4. Set up an attribute table for the referenced points containing the x,y coordinate data as well as separate columns for each survey question.
- 5. Export the attribute table as a database file (.dbf) to excel or a device that can randomly select a sample survey set from the list of waypoints and read the coordinates from the attribute table.
- 6. Have Duke Engage members survey the randomly selected locations and enter the information in the corresponding attribute table columns.
- 7. Upload the new information back into ArcGIS and use the drawing features to visually represent the results of the survey information overlaid on the GeoEye map to be distributed to members of the Duke Global Health Initiative as well as community leaders in the Muhuru Bay area.



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Shape	Gridcode	AreaKm2	Perimeter	LngFloPth	Skpe	CurveNum	LogTime	Baceflow	Transform	LossRate
Polygon	1	2200.500	357000.000	115583.3906	0.0021	91.6287	3152.8762	None	SES	SCS
Polygon	2	786.750	165000.000	57748.8281	0.0036	91,5685	1385.8659	None	SCS	SCS
Polygon	3	250.750	149000.000	34384.8438	0.0028	88.4427	1179.8271	None	SCS	SCS
Polygon	4	824.750	171000.000	67305.0938	0.0018	81,1269	3253.7479	None	SCS	SCS
Polygon	5	858.500	192000.000	68391.0156	0.0036	84.8574	2057.6479	None	SCS	SCS
Polygon	6	5277.250	431000.000	185580.9688	0.0014	84,7232	7367.4464	None	SCS	SCS
Polygon	7	72,500	50000.000	15571.0684	0.0025	81,4815	846.2933	None	SCS	SCS
Polygon	8	976.000	191000.000	60698.4922	0.0026	84,3064	2243.2282	None	SCS	SCS
Polygon	9	1985.500	336000.000	129846.8828	0.0023	85.8451	4151.7244	None	SCS	SCS
Polygon	10	645.000	158000.000	46248.7451	0.0038	83.4526	1534,7836	None	SCS	SCS
Polygon	11	729.000	163000.000	49077.2656	0.0032	84,4124	1699.6540	None	SCS	SCS
Polygon	12	265.750	87000.000	28299.0625	0.0039	84,0505	1003.4954	None	SCS	SCS
Polygon	13	122,750	66000.000	20192.4219	0.0050	83,1028	638.5663	None	ISCS	SCS
Polygon	14	431,250	140000.000	39420.3906	0.0032	82,8173	1505.4745	None	ISES	SCS
Polygon	15	1638.000	229000.000	65248.8281	0.0015	83.4384	3223.0345	None	ISCS	SCS
Polygon	16	86.000	49000.000	16156.8750	0.0061	85.3285	630.0000	None	ISES	SCS
Polygon	17	209.000	86000.000	30091.8887	0.0064	82,5739	864.6495	None	SCS	SCS
Polygon	18	861.000	195000.000	52162,9609	0.0048	82,2499	1566.9927	None	SCS	SCS
Polygon	19	437.500	133000.000	39556.3594	0.0042	81.8637	1258.6215	Nore	SCS	SCS
Polygon	20	392.000	119000.000	41006.1094	0.0073	80.6620	1103.1225	None	SCS	SCS
Polygon	21	729.500	157000.000	52284.3711	0.0043	82.8212	1627.7163	None	SCS	SCS
Polygon	22	226.500	92000.000	35591.9531	0.0056	82,4841	\$76,7106	None	SCS	SCS
Polegon	23	582,750	213000.000	51248,7891	0.0054	84.3114	1359,2304	None	SCS	SCS



GeoEye =====CHCE basise images; dec 2000; -surface; of the Geodyn Freedokies 0 0.00 0.1