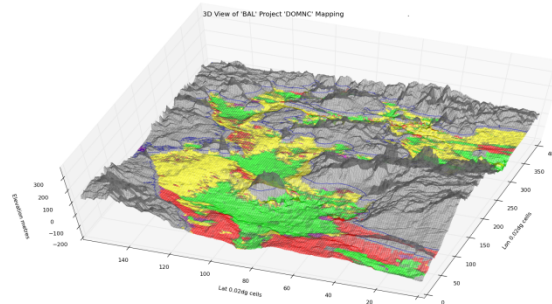# GUIDE to OUTPUTS in a GIS PROJECT for dbSEABED

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GIS/proj_xxx is a set of GIS-ready data products for an area (xxx). The project is defined by running dbS_COVERAGES and giving input on area lower left corner, upper right corner, grid resolution, subbottom depth range, and the data collections which will contribute.

This program plus dbS_GRIDDING, dbS_GRIDCODES, dbS_GRID2POLY are run in sequence and generate grids, shapefiles, images and listings.

Output data files (primary)

xxx_WWD.TXT, xxx_CMP.TXT, xxx_XTA.TXT: data listings of the input pointwise data for the top-20 parameters, components/features and extra specialized information. Note that a selvage of data is included around the project.	Display and symbolize the points and their values in the GIS
xxx_SRC.TXT, xxx_SRC.KML: summary list and Google Earth display of the datasets contributing to the project	By inspection, understand the sources of the data for the project
xxx_BTYv.asc, xxx_BTYs.asc: gridded bathymetry values and standard deviations	Use this as a GIS display background for some of the other data products

xxx_MMMu.asc, xxx_MMMu.asc:
   ESRI ASCII griddings of the values and variances for the parameter MMM. They are generated in multiple runs or one (GSM, MUN) run of dbS_GRIDDINGS.
   They include: GVL,SND,MUD,RCK – gravel,sand,mud,rock; CLY – clay, GRZ, SRT – grainsize and sorting; CRB,OCB – carbonate, organic carbon; POR,SHR,CSS – porosity, undrained shear strength, critical shear stress. These multiple coverages may also be generated: GVLvLR,GVLuLR,etc - from logratio method on grainsize fractions; RED,GRN,BLU – rgb values from Munsell colours.
	Display the griddings in a GIS with suitable coloration from legends.
	Arithmetically combine the results to suit the needs of analysis and modeling.

xxx_DOMNC.asc, xxx_FOLK.asc: Composite parameter products, dominant substrate type and Folk sediment classes	These function as 'executive' summary products for the project
xxx_RGBv.tif, xxx_RGBv.tfw: Seabed color; RGB and individual color (CCC) grids, tiffs and a world file.	The TIFs display directly into GIS, and the TFW file is usually picked up automatically
xxx_GRIDS.SHX, xxx_GRIDS.SHP, xxx_GRIDS.PRJ, xxx_GRIDS.DBF: shapefile set of the grids converted to polygons, with a multi-parameter datatable.	Display the results in polygon formats, allowing for GIS operations of buffering, area

	selection, etc.
xxx_MMM_3d.png: 3D visual of the area for the parameter MMM.	Top-level visualization

Program files (secondary)

- xxx_setup.txt: echo of the manual inputs used to create the project in dbS_COVERAGES
- xxx_project.asc, xxx_project.hdr: ESRI ASCII zeroes grid of the project area, and the header for that grid separately
- xxx_data.asc: gridded display of the distribution of the input data points
- xxx_MIFSHAPE.bat: a copy of the script that changes the MID-MIF fileset to shapesfiles
- xxx_MMM_heldback.txt: list of the data that would be used if a jackknife test was run for the parameter MMM
- xxx_GRIDS.mid, xxx_GRIDS.mif: MAPINFO intermediate products for making Shapefiles
- xxx_RGBtst.csv, xxx_CCCv.asc, xxx_CCCu.asc, xxx_CCCv.tif are intermediate stage files in the processing of seabed color
- xxxlrMMM.asc: logratio values for calculation of the final xxxMMMvLR etc results for non-independent parameters like GVL,SND,MUD