CBP GIS Team 2013 Work Plan

Project	Description	Tasks	Staff / Contractor
Geospatial Data Enterprise	Develop and implement procedures, data storage organization and governance to support ChesapeakeStat and other web-based geospatial applications	1. Publish CBP map services to support ChesapeakeStat and www.chesapeakebay.net	JW
		2. Develop long term GIS implementation strategy (post-CIMS) leveraging EPA network and cloud options	JW
		3. Continue to update/populate data within the CBP enterprise geodatabase	JW, HW
		4. Participate in the CBP Data Hub redesign	JW, AF
		5.Continue to update and populate CBP metadata catalog.	JW, GIS Team
Decision Support Tools	Identify, document and support the development of decision support tools used by the Partnership	1. Coordinate pilot data visualization project with ESRI	JW
		2. Update public access web input tool	AF
		3. Conduct CAJO/STSP viewshed analysis	AF
		4. Coordinate the development of geographic content for ChesapeakeStat.	JW
		5. Migrate dynamic mapping tools on Cstat and bay.net websites from Flex to Javascript	AF, INDUS
Geospatial Data Analysis and Support	Provide geospatial analysis and support to the GITs and Workgroups	1. Update and maintain the Chesapeake Bay watershed protected lands database.	RT
		2. Transition brook trout indicator data managemnent responsibility to CBP	HW
		3. Update CBP indicators and maps to support Communication needs	HW, JW
		4. Provide GIS support for the development of the new Tidal Water Quality indicator	HW
		5. Assess impervious surface, forest cover, and housing change over the past decade in healthy watersheds (when available)	PC
Chesapeake Bay Land Change Model (CBLCM)	Enhance the Chesapeake Bay Land Change Model to simulate alternative future development scenarios	1. Produce CBLCM v2 alternative future development scenarios for the Chesapeake Bay watershed	PC, RT
		2. Develop future scenarios for the NCSG-USGS partnership supported by USEPA-ORD	PC, RT
		3. Back-cast land use change to 1950 for the Chesapeake Bay watershed	PC, AL
		4. Develop vulnerability of interior forest/wetland maps at the county scale	PC
		5. Develop methods for simulating infill at the regional scale	RT
		6. Working with the Land Use Workgroup, develop methods to map developed land uses at the regional scale using the best available local and regional datasets	PC
		7. Chesapeake Bay Land Change Model v3a (alpha) code	FI, DD
Monitor and Map Land Change	Create the land-cover component of the Chesapeake Monitoring Alliance	1. Evaluate and recommend improvements to annual impervious surface change dataset for MD and DE from 1984-2010	UMD
		2. Develop stratified sampling framework for impervious surfaces, forest cover, and riparian forest buffers for the Chesapeake Bay watershed	PC, AB
		3. Compare forest cover estimates from FIA, CBLCD, and UVM land cover in Baltimore county, MD	PC
		4. Finalize cooperative agreement with USFS to share FIA data	PC
		5. Develop a 2011 CBLCD through post-processing the NLCD 2011 for the Chesapeake Bay watershed	FI
		6. Assess land cover/use change in the Chesapeake Bay watershed: land cover, population, housing, employment, ag practices, and forests (1984-2006	PC
		7. Develop and evaluate population dasymetric maps (1990-2010) for the Chesapeake Bay watershed	RT
		8. Develop educational modules for the Land Image Analyst (LIA) and remote sensing imagery to assess landscape characteristics and change	QS, FI