

UNIVERSITY SYSTEM OF MARYLAND

R30B34.00 UNIVERSITY OF MARYLAND CENTER FOR ENVIRONMENTAL SCIENCE

PROGRAM DESCRIPTION

The University of Maryland Center for Environmental Science (UMCES) engaging in research, education, and public service consists of three laboratories, two of which are located on the Chesapeake Bay: The Chesapeake Biological Laboratory (CBL) at Solomons, the Horn Point Laboratory (HPL) at Cambridge, and the Appalachian Laboratory (AL) at Frostburg. The Research Fleet Operations (RFO) is based at Solomons. The Maryland Sea Grant College coordinates the research efforts of the USM that are associated with the U.S. Department of Commerce's National Oceanic and Atmospheric Administration.

MISSION

The University of Maryland Center for Environmental Science (UMCES) is a research institution that advances knowledge in environmental and natural sciences through scientific discovery, integration, application and teaching. UMCES is the only institution of the University System of Maryland (USM) whose statutory mission is the development of a comprehensive program of environmental research, education and service. Through these functions, UMCES will maintain its national and international reputation for the excellence and multidisciplinary nature of its research, its success in applying scientific knowledge to the management of the Chesapeake Bay and its watershed, and its multifaceted collaborations in education. While UMCES does not grant degrees, its faculty members advise, teach, and serve as mentors to many graduate students enrolled in USM institutions.

VISION

UMCES will continue to evolve as a globally eminent yet locally relevant institution dedicated to discovery, integration, application and teaching concerning the environment and natural resources.

KEY GOALS, OBJECTIVES, AND PERFORMANCE MEASURES

Goal 1. Strengthen the predictive ecology for Maryland through highly relevant research programs.

Objective 1.1 By 2009 increase to 250 the number of Chesapeake Bay restoration research projects, from 209 in 2005.

	2004	2005	2006	2007
Performance Measure	Actual	Actual	Estimated	Estimated
Output: Number of Chesapeake Bay restoration projects	142	209	225	235

Goal 2. Strengthen the K-12 education and teacher training in environmental education programs.

Objective 2.1 By 2009 increase to 11,500 the number of K-12 students participating in UMCES' environmental education program from 11,000 in 2005.

	2004	2005	2006	2007
Performance Measure	Actual	Actual	Estimated	Estimated
Output: K-12 students participating in environmental education program	10,250	11,000	11,000	11,250

Objective 2.2 By 2009, increase the number of teachers trained in UMCES' environmental education program to 450 from an estimate of 380 in 2005.

	2004	2005	2006	2007
Performance Measure	Actual	Actual	Estimated	Estimated
Output: K-12 teachers trained in environmental education program	351	380	400	425

Goal 3. Increase extramural support from government and private sources.

Objective 3.1 By 2009 improve private support to \$2.5 million, from \$1 million in 2005.

	2004	2005	2006	2007
Performance Measure	Actual	Actual	Estimated	Estimated
Input: Private support (\$ millions)	\$1.5	\$1	\$2.0	\$2.2

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Objective 3.2 By 2009 increase the two-year running average of new extramural research funding that was received to \$25 million, from \$20.8 million in 2005.

Performance Measure	2004 Actual	2005 Actual	2006 Estimated	2007 Estimated
Input: Two-year running average of extramural research funding (\$ million)	\$22.1	\$20.8	\$22.0	\$24.0

Objective 3.3 By 2009, increase research expenditures from all sources to \$43 million, from an estimate of \$40 million in 2004.

Performance Measure	2004 Actual	2005 Actual	2006 Estimated	2007 Estimated
Input: Research expenditures (\$ millions)	\$39.6	\$40.0 ¹	\$41.0	\$42.0

Goal 4. Provide quality research and graduate education.

Objective 4.1 By 2009, increase the number of annual peer-reviewed publications produced by UMCES faculty members to 150 from an estimate of 115 in 2005.

Performance Measure	2004 Actual	2005 Actual	2006 Estimated	2007 Estimated
Output: Number of peer-reviewed publications produced by UMCES faculty	124	115 ¹	130	140

Objective 4.2 By 2009, increase the mean number of citations in peer-review publications attributed to UMCES faculty members to 32.0 from 27.3 in 2005.

Performance Measure	2004 Actual	2005 Actual	2006 Estimated	2007 Estimated
Quality: Mean number of citations per peer-reviewed publications attributed to UMCES faculty	26.6	27.3	29.0	30.0

Objective 4.3 By 2009, increase the average GRE (Verbal and Quantitative) scores for incoming students under the direction of UMCES faculty to 1350, from 1,215 in 2005.

Performance Measure	2004 Actual	2005 Actual	2006 Estimated	2007 Estimated
Output: Average GRE scores (Verbal and Quantitative) of incoming students under the direction of UMCES faculty	1,250	1,215	1,275	1,300

Objective 4.4 By 2009, increase the number of new large competitive extramural research awards, in excess of \$300,000, to 25 from 11 in 2005.

Performance Measure	2004 Actual	2005 Actual	2006 Estimated	2007 Estimated
Quality: Number of grants awarded in excess of \$300,000	19	11	20	22

Objective 4.5 By 2009, improve faculty salaries to the 45th percentile for Carnegie Research I universities in order to attract and retain outstanding faculty from an estimate of the 30th percentile in 2005.

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Performance Measure	2004 Actual	2005 Actual	2006 Estimated	2007 Estimated
Output: Percentile rank of UMCES faculty salaries, on average, compared to those at Carnegie Research I universities	27%ile	30%ile ¹	35%ile	45%ile

Objective 4.6 Continue through 2009 to maintain research expenditures per faculty member at above the 85th percentile for Carnegie Research I Universities.

Performance Measure	2004 Actual	2005 Actual	2006 Estimated	2007 Estimated
Output: Percentile rank of UMCES expenditures per faculty member as compared to Carnegie Research I universities	>85%ile	>85%ile ¹	>85%ile	>85%ile

Note: ¹Data are estimated. Final data are not yet available or are still being finalized.