

Gulf Oil Spill NSF RAPIDs, Granted and Pending

| BIO | (see also GEO 1045221 for shared funding on award) | | | Amount Awarded |
|------------------------|--|--|--|---------------------------|
| 1045221 DEB | Pennings | University of Houston | RAPID Deepwater Horizon Oil Spill: Insights into salt marsh food webs from the Deepwater Horizon oil spill; awarded \$131,115 | 131,115 |
| ENG | (See also 1042926 in OPP/ENG) | | | |
| 1042743 CBET | Mortazavi | University of Alabama, Tuscaloosa | RAPID: Accelerating biodegradation of hydrocarbons from the Deepwater Horizon Oil Spill in the Gulf of Mexico with Naturally Occurring Marine Substrates; awarded \$124,999 | 124,999 |
| 1042752 CBET | Amadeu Sum | Colorado School of Mines | RAPID: Gas Hydrate Formation and Inhibition at the Conditions Encountered in the Gulf of Mexico Oil Leak from the Deepwater Horizon Well; awarded \$50,000 | 50,000 |
| 1043163 CBET | Vijay John and Arijit Bose | Tulane and U. Rhode Island- - collaborating | RAPID: Self Assembly of Chemical Dispersant Systems in the Treatment of Deep Water Hydrocarbon Releases; awarded \$150,000 | 150,000 |
| 1043467 CBET | Tansel | Florida International Univ. | Formation, Persistence and Mobility of Oil Emissions after Major Spills at Sea; awarded \$35,000 | 35,000 |
| 1043818 CBET | Linden | Colorado at Boulder | Photochemical Fate of Oil Dispersants Used in the Gulf Oil Spill Clean-up; awarded \$82,319 | 82,319 |
| 1047699 IIP | Edmiston | Absorbent Materials Company LLC | SBIR (RAPID):Process Development to Restore Osorb Swelling Glass Fouled While Recovering Gulf Oil-Water Mixtures; awarded \$200,000 | 200,000 |
| 1048172 IIP | Osborn | BLUEINGREEN | SBIR (RAPID): Use of SDOX to Provide Dissolved Oxygen to Enhance Bioremediation of Near-shore Spilled Oil in the Gulf of Mexico; awarded \$174,979 | 174,979 |
| GEO | (See also 1048697 in OCI) | | | |
| 1041868 EAR | Wang | Univ. South Florida | RAPID: Emergency Field Investigation of Oil-Beach Interaction along the Alabama and Florida Beaches Following the BP Deepwater Horizon Oil Spill; awarded \$44,632 | 44,632 |
| 1041940 OCE/IPS | Malbrough | Louisiana Universities Marine Consortium | Oceanographic Instrumentation - 2010; awarded \$17,350 | 17,350 |
| 1042097 OCE/CO | Valentine | U. Calif. - Santa Barbara | Impact of purposeful application of oil dispersants on water column microbiology of the GOM; awarded \$119,964 | 119,964 |
| 1042650 OCE/CO | Kessler | Texas A&M Univ. | RAPID: The effect of methane laden oil on climate and dissolved oxygen: using the Deepwater Horizon oil spill as an analog for clathrate decomposition and seeping methane; awarded \$156,081 | 156,081 |

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| 1042790 OCE/CO | Guo | Univ. Southern Miss. | RAPID: Effect of oil spill on organic carbon partitioning and transformation in the water column in the northern Gulf; awarded \$60,000 | 60,000 |
| 1042792 OCE/BO | Taylor | Tulane Univ. | Impacts of the oil spill on blue crab population dynamics, building on existing research on their basic ecology in the Gulf of Mexico; awarded \$199,863 | 199,863 |
| 1042887 OCE/CO | Ostrom | Michigan State | RAPID - Collaborative Research: Impact of the New Horizon oil spill on ecosystem metabolism and gas exchange in the northern Gulf of Mexico hypoxic region; awarded \$44,758 | 44,758 |
| 1042907 OCE/MGG | Yeager | Univ. Southern Miss. | RAPID Deepwater Horizon Oil Spill: Responses of Benthic Communities and Sedimentary Dynamics to Hydrocarbon Exposure in Coastal Ecosystems of the northern Gulf of Mexico; awarded \$139,999 | 139,999 |
| 1042908 OCE/CO | Liu | U. Texas - Austin | RAPID - Collaborative Research: Impact of the New Horizon oil spill on ecosystem metabolism and gas exchange in the northern Gulf of Mexico hypoxic region; awarded \$44,612 | 44,612 |
| 1042934 OCE/CO | Shiller | Univ. Southern Miss. | RAPID: Deepwater Horizon Oil Spill Effects on Metal, Nutrient, and Organic Matter Distributions in the Water; awarded \$39,354 | 39,354 |
| 1043126 OCE | Johnson | LSU & A&M College | RAPID on Oil Spill: Phytoplankton and environmental stressors as determinants of vibrio ecology; awarded \$150,000 | 150,000 |
| 1043180 OCE/BO | Bell | Univ. South Florida | RAPID Deep water Horizon Oil spill: Trophic organization of sandy beach ecosystems across gradients of development and oiling; awarded \$127,693 | 127,693 |
| 1043225 OCE/BO | Joye | Univ. of Georgia | RAPID Deepwater Horizon Oil Spill: Deep pelagic and benthic impacts of the oil spill; awarded \$199,581 | 199,581 |
| 1043248 OCE/BO | Roman | U. MD - CES | RAPID Collaborative Proposal: Spatially-explicit, High-resolution Mapping and Modeling to Quantify Hypoxia and Oil Effects on the Living Resources of the Northern Gulf of Mexico; awarded \$107,961 | 107,961 |
| 1043249 OCE/BO | Kimmel | Univ. Akron | RAPID Collaborative Proposal: Spatially-explicit, High-resolution Mapping and Modeling to Quantify Hypoxia and Oil Effects on the Living Resources of the Northern Gulf of Mexico; awarded \$44,284 | 44,284 |
| 1043261 OCE/BO | Brandt | Oregon State Univ. | RAPID Collaborative Proposal: Spatially-explicit, High-resolution Mapping and Modeling to Quantify Hypoxia and Oil Effects on the Living Resources of the Northern Gulf of Mexico; awarded \$46,981 | 46,981 |
| 1043413 OCE/BO | Graham | Marine Environmental Sciences Consortium | RAPID: Resolving higher trophic-level change within the northern Gulf of Mexico ecosystem as a consequence of the Deepwater Horizon oil spill; awarded \$199,867 | 199,867 |

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| 1043976 OCE/CO | Reddy | WHOI | RAPID: Hydrocarbon Dissolution Fluxes from the Deepwater Horizon Oil Plume: GCxGC Chemical Analysis and Mass Transfer Modeling; awarded \$149,989 | 149,989 |
| 1044368 OCE/BO | Fulford | U. Southern Miss. | RAPID: Assessment of the impacts of the Deep Horizon oil spill on Bluecrab, <i>Callinectes sapidus</i> , spawning and recruitment in the northcentral Gulf of Mexico; awarded \$133,140 | 133,140 |
| 1044573 OCE/PO | He | NC State U. | 3-D Model Forecast of the Vertical and Horizontal Distributions of the Oil Plumes Arising From the Deep Water Horizon Spill; awarded \$80,646 | 80,646 |
| 1044704 OCE/PO | Ozgokmen | U. Miami | Modeling study: focuses on smaller scales; instead of the advection of the slicks, it simulates the dispersion of the plume as it rises toward the surface; awarded \$86,216 | 86,216 |
| 1044939 OCE/CO | Huettel | Florida St. Univ. | RAPID: Rates and mechanisms controlling the microbial degradation of crude oil from the MC252 spill in Gulf of Mexico beach sands; awarded \$169,653 | 169,653 |
| 1045025 OCE | Camilli | Woods Hole Oceanographic Institution | RAPID: Mapping Subsurface Hydrocarbon Plume Distribution and Structure near MC Block 252; awarded \$131,040 | 131,040 |
| 1045044 OCE/PO | Rudnick | Scripps | RAPID: Glider observations in the Gulf of Mexico in response to the oil spill; awarded \$43,868 | 43,868 |
| 1045115 OCE | Teske | University of North Carolina at Chapel Hill | RAPID: The Microbial Response to the Deepwater Horizon Oil Spill; awarded \$199,953 | 199,953 |
| 1045221 OCE/BO <u>and</u> <u>BIO</u> | Pennings | Univ. of Houston | Effects of oil spill on salt marsh ecosystems, building on extensive ongoing LTER research, and taking an ecosystem approach to include major herbivores; awarded \$131,115 | 131,115 |
| 1045252 OCE | Powers | University of South Alabama | RAPID: Trophic interactions in floating Sargassum communities of the Gulf of Mexico: potential consequences of habitat degradation; awarded \$157,664 | 157,664 |
| 1045320 OCE/CO | Asper | Univ. of S. Mississippi | RAPID Deepwater Horizon Oil Spill: COLLABORATIVE RESEARCH: Marine Snow and Sedimentation; awarded \$47,033 | 47,033 |
| 1045330 OCE | Passow | University of California-Santa Barbara | RAPID Deepwater Horizon Oil Spill: Collaborative Research: Marine Snow and Sedimentation; awarded \$67,025 | 67,025 |
| 1045670 OCE/CO | Van Mooy | WHOI | Impact of Nutrient Limitation on Microbial Degradation of Deepwater Horizon Oil in the Gulf of Mexico; awarded \$39,437 | 39,437 |
| 1047693 OCE | Torres | University of South Florida | RAPID Deepwater Horizon Oil Spill: Impact of sub-surface oil plumes on mesopelagic micronekton; awarded \$147,696 | 147,696 |
| 1047736 OCE | Mitra | East Carolina University | RAPID: Marine-to-Land Fluxes of Dissolved and Particulate Carbon Derived from the Deepwater Horizon Surface Slick During the 2010 Hurricane Season; awarded \$43,497 | 43,497 |
| 1048455 | Koch | Western Environmental Technologies, Inc | RAPID Deepwater Horizon Oil Spill: In-situ tracking of oil in seawater and the aging process using spectral fluorescence; awarded \$189,335 | 189,335 |

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| 1048482 | OCE | Chekalyuk | Columbia University | RAPID: Rapid Assessment of Extent and Photophysiological Effects of the Deepwater Horizon Oil Spill; awarded \$46,981 | 46,981 |
| 1048630 | OCE/PO shared with OCI | North | U. of Maryland - CES | RAPID Collaborative Research: Deepwater Horizon: Simulating the three dimensional dispersal of aging oil with a Lagrangian approach; awarded \$64,194 | 64,194 |
| 1048976 | OCE/PO | Adams | MIT | RAPID Collaborative Research: Deepwater Horizon: Simulating the three dimensional dispersal of aging oil with a Lagrangian approach; awarded \$24,903 | 24,903 |
| MPS (Also see ENG_CBET) | | | | | |
| 1045729 | DMR | Schiraldi | Case Western | RAPID: Polymer Aerogels to Protect America's Waterways; awarded \$96,333 | 96,333 |
| 1045998 | DMR OCI | Painter (See 1048630 in GEO for shared award) | Penn State | The Separation of Hydrocarbons from Contaminated Sand Using Ionic Liquids; awarded \$178,862 | 178,862 |
| 1042296 | | Twilley | LSU & A&M College | RAPID: Collaborative Research: Extension of the ADCIRC Coastal Circulation Model for Predicting Near Shore and Inner Shore Transport of Oil from the Horizon Oil Spill; awarded \$40,157 | 40,157 |
| 1042304 | | Westerlink | U. Notre Dame | RAPID: Collaborative Research: Extension of the ADCIRC Coastal Circulation Model for Predicting Near Shore and Inner Shore Transport of Oil from the Horizon Oil Spill; awarded \$59,873 | 59,873 |
| 1042314 | | Luetlich | UNC - Chapel Hill | RAPID: Collaborative Research: Extension of the ADCIRC Coastal Circulation Model for Predicting Near Shore and Inner Shore Transport of Oil from the Horizon Oil Spill; awarded \$58,180 | 58,180 |
| 1042318 | | Dawson | U. Texas - Austin | RAPID: Collaborative Research: Extension of the ADCIRC Coastal Circulation Model for Predicting Near Shore and Inner Shore Transport of Oil from the Horizon Oil Spill; awarded \$41,800 | 41,800 |
| 1048697 | OGE/OCI | Paris | U. of Miami - RSMAS | RAPID: Evaluation of the near term impact of the Deepwater Horizon blowout to the South Florida coast; awarded \$170,267 | 170,267 |
| OPP and ENG | | | | | |
| 1042926 | | Gil | Oklahoma State | RAPID Proposal to Conduct a Comparative Study of Community Impacts of the 2010 BP Oil Spill; awarded \$37,873 | 37,873 |
| SBE | | | | | |
| 1042786 | SES | Kenny | Louisiana State U | RAPID: Social Context and Emotional Response to Disaster; awarded \$89,948 | \$89,948 |