

Technical Workgroup(s) Supported	Study #	Type of Study	Workplan Title	Purpose or Objective(s)	Signed?	Cooperative?	Data Provided to BP?	Data Collection/ Analysis Start Date	Data Collection/ Analysis End Date	Database System Used for Raw Data Mgmt	Val/Ver Status	QA/QC?
Shoreline, Submerged Aquatic Vegetation	No ID	Data Collection	Assessment Plan Concerning Aerial Imagery in the Northern Gulf of Mexico	1) to identify the types of remotely sensed imagery (data) that have been and/or will be acquired to support the NRDA; and 2) to describe the methods that will be used and approaches taken to develop useful remote sensing products for the NRDA.	Y	Y	partial			USGS Earth Resources Observation & Science Center - Hazards Data Distribution System AND Cassini Server		N/A
Shoreline, Submerged Aquatic Vegetation	No ID	Collection & Analysis	Assessment of Coastal Marshes and Shoreline Impacted by DWH Oil Spill Using AVIRIS Hyperspectral Remote Sensing Data	1) describe specific analyses to be performed utilizing Airborne Visible and InfraRed Imaging Spectrometer (AVIRIS) hyperspectral remote sensing data to assess degradation of ecosystem functioning related to the Deepwater Horizon incident and 2) identify specific products from the specified analyses to support the ongoing Deepwater Horizon Oil Spill NRDA.	Y	Y	N			USGS Earth Resources Observation & Science Center - Hazards Data Distribution System AND Cassini Server		N/A
Shoreline, Submerged Aquatic Vegetation	No ID	Collection & Analysis	Estimating Off-shore Surface Oil Volumes of select portions of DWH using AVIRIS	1) Determine the volume of surface crude oil floating on the ocean surface for areas imaged by AVIRIS on days when surface conditions (e.g., wind, waves, and sun angle) permit quantitative estimates. 2) Use AVIRIS-derived surface oil volume estimates on a per pixel basis for the core of the spill and surrounding sheen covered areas.	Y	N	N			USGS Earth Resources Observation & Science Center - Hazards Data Distribution System AND Cassini Server		N/A

Avian Guild(s) of Interest	Study #	Type of Study	Workplan Title	Purpose or Objective(s)	Signed?	Cooperative?	Data Provided to BP?	Data Collection Approximate Start Date	Data Collection Approximate End Date	Database System Used for Raw Data Mgmt	Val/Ver Status	QA/QC Status
ALL	1	Data Collection	Workplan for Estimating Mortality of birds Using Beached Bird Surveys in the GOM Near the MSC 252 Canyon Oil Spill	To estimate the rate of spill-related carcass deposition throughout the spill area (minus Louisiana area).	Y	Y	Y	May-10	Sep-10	ERDC	Not Started	N
ALL	1A	Data Collection	Workplan for Estimating Mortality of birds Using Beached Bird Surveys in Louisiana for the MSC 252 Canyon Oil Spill	To estimate the rate of spill-related carcass deposition throughout the spill area (Louisiana area).	Y	Y	Y	May-10	Sep-10	ERDC	Not Started	N
ALL	1B	Data Collection	Detection Probability (Searcher Efficiency)	To collect data on carcass detection rates in searched areas from Study 1A	Y	Y	Y	May-10	Sep-10	ERDC	Complete	N
ALL	1C	Data Collection	Beached Carcass Persistence Study	To evaluate daily persistence rates of carcasses on surveyed beaches from study 1A.	Y	Y	Y	Jun-11	Jun-11	FWS-IEc	Complete	N
ALL	1D	Data Collection	Carcass Drift Fate Using Radio Telemetry	To investigate the fate of bird carcasses that begin to drift at sea. Specifically quantify the time carcasses float prior to sinking and proportion of carcasses that beached within searched areas.	Y	Y	Y	Jul-11	Aug-11	RGF Consulting	Complete	N
ALL	13	Data Collection	Workplan for Determining Physiological Injury to Oiled Birds from DWH Oil Spill	Determine if hemolytic anemia is a key diagnostic feature in oiled birds and whether biomarkers for hemolytic anemia are consistently related to mortality in severely oiled birds. Part of Bird Study 3, 4, & 5. Work of confirming Heinz bodies added later.	Y	N	Y	1-Aug-10	1-Feb-11	ERDC	Not Started	SOP complete
ALL	19 (1)	Data Collection	Workplan for assessing Bird Mortality Using Data from Response Operations and Boat Based NRDA Surveys in Northern GOM Near DWH Oil Spill	Objective 1 - ID and compile response data for refining bird mortality not addressed by NRDA studies (Marsh)	Y	N	N	Oct-11	Oct-11	IEc	N/A	N/A
ALL	19 (2)	Data Collection	Workplan for assessing Bird Mortality Using Data from Response Operations and Boat Based NRDA Surveys in Northern GOM Near DWH Oil Spill	Objective 2 - Estimate carcass detection and persistence rates in areas beyond Study#1 (Marsh)	Y	N	Y	Oct-11	Oct-11	IEc	Complete	Complete
ALL	20 (1)	Scoping	Laboratory Avian Toxicology Studies to determine the Effects of DWH Oil Spill on Bird Viability - Phase 1	Background and scoping of toxicity studies, methods, and scope to be used for Phase 2. Analytical results from BS # 13 (collected from #3,4, & 5) will help inform.	Y	N	N/A	Jul-11	May-12	Stratus	N/A	N/A
ALL	20 (2)	Collection & Analysis	Laboratory Avian Toxicology Studies to determine the Effects of DWH Oil Spill on Bird Viability - Phase 2	1) Determine relationship between oil exposures (internal and external) and toxicological effects in birds dosed with DWH derived oil; 2) Assess the acute, subacute and subchronic sublethal impacts, including effects on migratory capability and survival, thermoregulatory capacity, and disease resistance, of exposure to MC 252 oil to the long-term viability of birds.	Y	N	N/A	Jul-12	ongoing	Stratus	Not Started	N
Waterbirds: Colonial & Seabirds	2	Data Collection	Aerial Surveys and Photographic Census for Birds in Vicinity of MSC252 Oil Spill (2010)	Provide data to determine # of waterbirds and seabirds in the region potentially affected by the spill	Y	Y	Y	May-10	Jun-10	ERDC	Not Started	N

Waterbirds: Colonial & Seabirds	2	Data Collection	Bird Colony Aerial Photography - 2011	Conduct photographic surveys of seabird and coastal wader colonies to provide bird attendance and behavior for eventual comparison to 2010 data.	Y	Y	Y	May-11	Jun-11	ERDC	Not Started	N
Waterbirds: Colonial & Seabirds	2	Data Collection	Bird Colony Aerial Photography - 2012	Conduct photographic surveys of seabird and coastal wader colonies to provide bird attendance and behavior for eventual comparison to 2010 and 2011 data.	Y	Y	Y	May-12	Jun-12	ERDC	Not Started	N
Waterbirds: Colonial & Seabirds	2	Collection & Analysis	Addendum: Bird Colony Aerial Photography and Analysis of Colony Photographic Census Data - 2013	Conduct photographic surveys of seabird and coastal wader colonies to provide bird attendance and behavior for eventual comparison to 2010, 2011, and 2012 data.	Y	Y	Y	May-12	Jun-12	DOID	Not Started	N
Secretive Marsh Birds	3	Data Collection	Estimating Secretive Marsh Bird Mortality	(1)quantifying abundances and densities of secretive marsh bird species in un-oiled representative habitats; (2) quantifying the proportion of live oiled and live un-oiled birds in representative habitats through active capture of live individual birds; (3) estimating representative marsh bird mortality rates using radio telemetry; and (4) quantifying fiddler crab burrow densities to supplement our understanding of marsh-specific rail densities.	Y	Y	Y	Jun-10	Feb-11	ERDC	Not Started	N
Secretive Marsh Birds	3	Data Collection	Modification: Marsh Bird Helicopter Survey Methodology	To determine densities of oiled and un-oiled birds in LA marshes	Y	Y	Y	Aug-10	Sep-10	ERDC	Not Started	N
Waterbirds: Colonial (Breeding)	4	Data Collection	Estimating Oiling and Mortality of Breeding Colonial Waterbirds from the DWH Oil Spill	(1) estimate % of adult and sub-adult birds visibly oiled in breeding colonies and roost sites; (2) estimate mortality rates of oiled and un-oiled adult birds via radio & satellite telemetry	Y	Y	Y	May-10	Apr-11	ERDC	Verification underway	N
Waterbirds: Colonial (Breeding)	4	Data Collection	Amendment 1 - Estimating Oiling and Mortality of Breeding Colonial Waterbirds from the DWH Oil Spill	Provide additional 1.5 months of field capture, 3 months of tracking, and 2 months of data workup.	Y	Y	Y		1-Mar-12	ERDC	Verification underway	N
Waterbirds: Colonial (Breeding)	4	Data Collection	Amendment 2 - Estimating Oiling and Mortality of Breeding Colonial Waterbirds from the DWH Oil Spill	Extend satellite tracking of BRPE and GREG to gain insights to potential spill-related changes in survival rates	Y	Y	Y	1-Apr-11	1-Apr-12	ERDC	Verification underway	N
Shorebirds: non- breeding	5	Data Collection	Estimating Shorebird Oiling and Mortality	estimate abundance (space and time) and distribution of shorebirds [via overflight and photo]; (2) estimate percentage of shorebirds visibly oiled [in areas not covered by studies 1, 3, and 4].	Y	Y	Y	Sep-10	Nov-10	ERDC	Verification underway	N
Shorebirds: non- breeding	5	Data Collection	Amendment: Estimating Shorebird Oiling and Mortality	Adds Objective 3. Estimate survival rates for AMOY and other shorebirds	Y	Y	Y	Sep-10	Nov-10	ERDC	Verification underway	N
Shorebirds: non- breeding	5	Data Collection	Amendment: Estimating Shorebird Oiling and Mortality	extending period to achieve 30 captures of AMOY.	Y	Y	Y	Sep-10	30-Apr-11	ERDC	Verification underway	N
Shorebirds: non- breeding	5	Data Collection	Supplement: Estimating Shorebird Oiling and Mortality	Collects data for determining survival rates of Eastern Willet	Y	Y	Y	not started	N/A	ERDC	Verification underway	N
Pelagic Seabirds	6	Data Collection	Estimating Oiling rates among pelagic birds using ship-based surveys	1) ascertain the proportion of pelagic seabirds that are not visibly oiled, or fall into pre-defined oiling categories; 2) estimate density of seabirds along ship path; 3) document location and state of bird carcasses found along path.	Y	N	Y	Jul-10	Jul-11	ERDC	Verification underway	N
Piping Plover	7	Data Collection	Workplan for Determining Injury to Piping Plover	1) evaluate over-winter survival in oiled and un-oiled areas; 2) evaluate winter population abundance and distribution in the oil impact and reference areas; 3) evaluate oiling of piping plovers in impact area.	Y	N	Y	Aug-10	Apr-11	ERDC	Verification underway	N
Piping Plover	7	Data Collection	Addendum: Workplan for Determining Injury to Piping Plover	Resight individuals banded or observed in the impacted area	Y	N	Y	May-11	Aug-11	ERDC	Verification underway	N
Shorebirds: breeding	8	Data Collection	Assessment of Breeding and Beach-nesting shorebird populations impacted by MSC 252 Oil Spill (2010)	1) estimate # of breeding shorebirds via targets (WIPL, SNPL, AMOY); 2) determine proportion of observed birds that are oiled and degree of oiling; 3) obtain photo and other evidence of response-related injuries to target birds or habitats	Y	N	Y	1-Jul-10	15-Aug-10	ERDC	Verification underway	N

Shorebirds: breeding	8	Data Collection	Assessment of Breeding and Beach-nesting shorebird populations impacted by MSC 252 Oil Spill (2011)	1) estimate # of breeding shorebirds via targets (WIPL, SNPL, AMOY); 2) determine proportion of observed birds that are oiled and degree of oiling; 3) obtain photo and other evidence of response-related injuries to target birds or habitats	Y	N	Y	1-May-11	30-Jun-11	ERDC	Verification underway	N
Raptor	9	Data Collection	Workplan for Preassessment of Injury to Osprey from the Deepwater Horizon Oil Spill	To conduct baseline nest evaluations and ground checks for presence of oil for the purpose of estimating return rates in 2011.	Y	Y	Y	Dec-10	Mar-11	ERDC	Not Started	N
Raptor	9.2	Data Collection	Workplan for Preassessment of Injury to Bald Eagles from the Deepwater Horizon Oil Spill	To estimate breeding numbers of HALE and measure demographic parameters of Gulf Coast populations between impact and reference areas.	Y	Y	Y	Jan-11	Apr-11	ERDC	Not Started	N
Raptor	9.3	Data Collection	Addendum: Osprey Rapid Assessment - Proposed Fledging Rates for Gulf Islands N.S.	1) determine nest activity, count adults and eggs, count young, and determine fledging rates on Horn and Ship Islands; 2) compare reproductive data with pre-spill data from NPS.	Y	Y	Y	Apr-11	Jul-11	ERDC	Not Started	N
Waterfowl	10	Data Collection	Estimating Wintering Waterfowl Oiling and Mortality (Nov. 30, 2010 - trustee only)	1) document dead and live oiled and unoiled waterfowl in representative habitats; 2) estimate abundance and distribution (in space and time) of waterfowl in the study area; 3) examine oiled and not visibly oiled birds collected from representative habitats.	Y	N	Y	1-Jan-11	1-Mar-11	ERDC	Verification underway	N
Waterfowl	10	Data Collection	Estimating Wintering Waterfowl Oiling and Mortality (Jan. 29, 2011 - with BP)	1) document dead and live oiled and unoiled waterfowl in representative habitats; 2) estimate abundance and distribution (in space and time) of waterfowl in the study area; 3) examine oiled and not visibly oiled birds collected from representative habitats.	Y	Y	Y	1-Jan-11	1-Mar-11	ERDC	Verification underway	N
Waterfowl	10B	Data Collection	Workplan for Assessing Potential Impacts to Fresh and Brackish Water SAV Communities from MC 252 oil spill	Determine if SAV and supporting waterfowl habitats have been exposed to MSC 252 oil and dispersants and are present.	Y	Y	Y	1-Dec-10	31-Dec-10	NOAA-SAV	Not Started	N
ALL, Waterfowl	11	Data Collection	Estimating Carcass Detection in Priority Waterfowl Habitats Impacted by DWH oil Spill	To determine feasibility of a modified beached bird survey method for marsh edge habitats where wintering waterfowl is anticipated (Pilot for Objective 1A in Study #10).	Y	N	Y	30-Aug-10	30-Sep-10	ERDC	Not Started	N
Waterbirds: Open-Water	12	Data Collection	Workplan for Determining Oiling Rates and Mortality of wintering Open-water Waterbirds from DWH Oil Spill	1) estimate proportion of target species populations (AMPE, COLO, NOGA) that are oiled in GOM via air, shore, and boat surveys; 2) collect mortality info on target species from Study#10 but adding surveys if necessary	Y	N	Y	1-Feb-11	1-Apr-11	ERDC	Verification underway	N

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 July 3, 2014 - This was prepared in the presence, along with communication and coordination of legal counsel.

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	Data Collection	Preassessment Plan for the Collection of Data to Determine Potential Exposure and Injuries of Threatened Gulf Sturgeon	1) document condition of Gulf sturgeon during fall and spring migrations and compare condition between migrations; 2) collect blood samples from up to 180 fish from nine river systems associated with the spill; 3) document off-shore movement and habitat use of up to 180 fish during the overwintering period throughout its range.	Y	Y	Y	Sep-10	Apr-11	NOAA-NRDA	Not Started	
	Data Collection	Year 2: Assessment Plan for the Collection of Data to Determine Potential Exposure and Injuries of Threatened Gulf Sturgeon	A. Record physical condition of Gulf sturgeon during the fall (2011) and spring (2012) migrations through visual observation, photo-documentation, and physical measurements as listed in the Pre-Assessment Plan; B. Continue to document offshore movement and habitat use of 134 adult Gulf sturgeon radio tagged in the cooperative 2010 Pre-Assessment monitoring effort; C. Capture, radio tag, and monitor off shore habitat use of an additional 160 Gulf sturgeon captured in 2011 and 2012;	N	N	Y	Sep-11	May-12	FWS- Panama City Office	Not Started	

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	Data Collection	Assessment Plan to Determine Potential Injuries to Beach mice to Habitat Impacts from Response Activities Associated with DWH Oil Spill Events	Document disturbance or destruction of sand dune habitat for T&E beach mice species in AL and FL due o to response activities.	Y	Y	Y	Apr-11	May-11		N	N

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	Collection & Analysis	Deepwater Horizon/Mississippi Canyon 252 Oil Spill Sampling and Analysis Plan for Jean Lafitte National Historic Park and Preserve Submerged Aquatic Vegetation Natural Resource Damage Assessment - Fall 2010 Surveys	to assess the potential impacts of the increased freshwater inputs into JELA due to the diversion of Mississippi River freshwater into JELA following the MC 252 Oil Spill.	Y	Y	Y	Sep-10	Sep-10	NOAA-NRDA	Complete	N
	Collection & Analysis	Deepwater Horizon/Mississippi Canyon 252 Oil Spill Sampling and Analysis Plan for Jean Lafitte National Historic Park and Preserve Submerged Aquatic Vegetation Natural Resource Damage Assessment - Spring and Fall 2011 Surveys	to assess the potential impacts of the increased freshwater inputs into JELA due to the diversion of Mississippi River freshwater into JELA following the MC 252 Oil Spill.	Y	Y	Y	May-11	Sep-11	NOAA-NRDA	Complete	N
	Collection & Analysis	Deepwater Horizon/Mississippi Canyon 252 Oil Spill Sampling and Analysis Plan for Jean Lafitte National Historic Park and Preserve Submerged Aquatic Vegetation Natural Resource Damage Assessment - Spring and Fall 2012 Surveys	to assess the potential impacts of the increased freshwater inputs into JELA due to the diversion of Mississippi River freshwater into JELA following the MC 252 Oil Spill.	Y	N	N	May-12	Sep-12	NOAA-NRDA	Complete	N
	Data Collection	Deepwater Horizon/Mississippi Canyon 252 Oil Spill Plan for Assessing Recovery of Submerged Aquatic Vegetation Propeller Scars at Gulf Islands National Seashore	To monitor nine no-action seagrass scars within GUIs identified as response injury-related by Trustees. (Two monitoring periods)	Y	Y	Y	15-Jul-12	2-Nov-12	NOAA-NRDA	Not Started	N
	Data Collection	Addendum: 2013 Plan for Assessing Recovery of Submerged Aquatic Vegetation Propeller Scars at Gulf Islands National Seashore	To monitor five no-action seagrass scars within GUIs identified as response injury-related by Trustees that have not met recolonization performance standards. (Two monitoring periods)	N	Y	Y	15-Sep-13	31-Oct-13	NOAA-NRDA	Not Started	N
	Data Collection	Assessing Submerged Oil Mats by Remote Sensing Survey and Diver Characterization at Gulf Islands National Seashore	collect data necessary to model the location, formation and resuspension of the oil/sand mixture that constitute SOMs. Quantification of SOMs will allow NPS to delineate injured subtidal habitat for purposes of planning primary and/or compensatory restoration.	N	N	N	Spring 2014	Spring 2014	NOAA-NRDA	Not Started	N

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	Data Collection	Preassessment Plan to Determine Potential Exposure and Injuries of Nesting and Hatchling Kemp's Ridley Turtles (2010)	1) Assess female condition, inter-nesting movements, blood chemistry. Assess potential egg and hatchling toxicity impacts, and hatching & emergence success pre & post discharge. 2) assess possible toxicological and physiological effects & impairments on nesting females, eggs, and hatchlings.	Y	Y	SOME	May	Sept	USGS-derived: to be transferred to DOID	underway	N
	Data Collection	Addendum to Preassessment Plan to Determine Potential Exposure and Injuries of Nesting and Hatchling Kemp's Ridley Turtles and Their Nests (2011)	1) Assess female condition, inter-nesting movements, blood chemistry. Assess potential egg and hatchling toxicity impacts, and hatching & emergence success pre & post discharge. 2) assess possible toxicological and physiological effects & impairments on nesting females, eggs, and hatchlings.	Y	Y	SOME	May	Sept	USGS-derived: to be transferred to DOID	underway	N
	Data Collection	Addendum: Assessment Plan to Determine Potential Exposure and Injuries of Nesting and Hatchling Kemp's Ridley Turtles and Their Nests - 2012 Field Season	1) Assess female condition, inter-nesting movements, blood chemistry. Assess potential egg and hatchling toxicity impacts, and hatching & emergence success pre & post discharge. 2) assess possible toxicological and physiological effects & impairments on nesting females, eggs, and hatchlings.	Y	N	SOME	May	Sept	USGS-derived: to be transferred to DOID	underway	N
	Data Collection	Assessment Plan to Determine Potential Exposure and Injuries of Nesting and Hatchling Kemp's Ridley Turtles and Their Nests - 2013 Field Work Plan	1) Assess female condition, inter-nesting movements, blood chemistry. Assess potential egg and hatchling toxicity impacts, and hatching & emergence success pre & post discharge. 2) assess possible toxicological and physiological effects & impairments on nesting females, eggs, and hatchlings.	Y	Y	SOME	May	Sept	USGS-derived: to be transferred to DOID	not started	N
	Data Collection	Preassessment Plan to Determine Potential Exposure and Injuries of Nesting and Hatchling Loggerhead Sea Turtles (2010)	1) Assess female condition, inter-nesting movements, blood chemistry. Assess potential egg and hatchling toxicity impacts, and hatching & emergence success pre & post discharge. 2) assess possible toxicological and physiological effects & impairments on nesting females, eggs, and hatchlings.	Y	Y	SOME	May	Sept	USGS-derived: to be transferred to DOID	underway	N
	Data Collection	Addendum to Preassessment Plan to Determine Potential Exposure and Injuries of Nesting and Hatchling Loggerhead Sea Turtles and Loggerhead Sea Turtle Nests (2011)	1) Assess female condition, inter-nesting movements, blood chemistry. Assess potential egg and hatchling toxicity impacts, and hatching & emergence success pre & post discharge. 2) assess possible toxicological and physiological effects & impairments on nesting females, eggs, and hatchlings.	Y	Y	SOME	May	Sept	USGS-derived: to be transferred to DOID	underway	N
	Data Collection	Addendum: Assessment Plan to Determine Potential Exposure and Injuries of Nesting and Hatchling Loggerhead Sea Turtles and Loggerhead Sea Turtle Nests - 2012 Field Season	1) Assess female condition, inter-nesting movements, blood chemistry. Assess potential egg and hatchling toxicity impacts, and hatching & emergence success pre & post discharge. 2) assess possible toxicological and physiological effects & impairments on nesting females, eggs, and hatchlings.	Y	N	SOME	May	Sept	USGS-derived: to be transferred to DOID	underway	N
	Data Collection	Addendum: Assessment Plan to Determine Potential Exposure and Injuries of Nesting and Hatchling Loggerhead Sea Turtles and Their Nests - 2013 Field Season	1) Assess female condition, inter-nesting movements, blood chemistry. Assess potential egg and hatchling toxicity impacts, and hatching & emergence success pre & post discharge. 2) assess possible toxicological and physiological effects & impairments on nesting females, eggs, and hatchlings.	Y	Y	SOME	May	Sept	USGS-derived: to be transferred to DOID	not started	N
TAP	Analysis	Analytical Addendum: Assessment Plan to Determine Potential Exposure and Injuries of Nesting and Hatchling Kemp's Ridley and Loggerhead Sea Turtles and their Nests: Sample Analysis Plan for Years 2010/2011	to document the types of analyses to be conducted, and approximate the number of each sample type and analyses to be performed. Analyses fall into two classes, chemical and biological.	Y	N	SOME	May	Sept	USGS-derived: to be transferred to DOID	not started	in progress

TAP	Analysis	Analytical Addendum: Assessment Plan to Determine Potential Exposure and Injuries of Nesting and Hatching Kemp's Ridley and Loggerhead Sea Turtles and their Nests: 2012 Sample Analysis Plan	to document the types of analyses to be conducted, and approximate the number of each sample type and analyses to be performed. Analyses fall into two classes, chemical and biological.	N	N	SOME	May	Sept	USGS-derived: to be transferred to DOID	not started	in progress
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