Instructions for Tabular Data Archiving at NCEI

Step 1. Obtain initial consultation: Send an email to <u>NCCOS.data@noaa.gov</u> requesting an initial consultation to determine how your dataset should be archived.

Step 2. Format and organize your data: Save your observation data or model output as either comma-separated values (.CSV) or tab-separated values (.TSV). You may archive a single large spreadsheet (up to 20 GB) or multiple smaller spreadsheets. Use any folder structure and file name convention, but do not use any spaces in your folder or file names (use dashes or underscores instead). See an example archived tabular dataset <u>here</u>.

Step 3. Create a browse graphic: Create a browse graphic in .JPG format. This can be any small image that exemplifies the collective dataset. The graphic file should be less than 500KB and 1000x1000 pixels.

Network Folder Location	X:\Archiving\Loerzel_NCRMP-Socio-CNMI-2016
Number of Subfolders	0
Number of Files	5
Total Size	7.42 MB
Zipped File Size	6.98 MB
Any individual file > 20 GB?	No
Includes data documentation?	Yes
Includes browse graphic?	Yes

Step 4. Assemble your data package into a directory on the NCCOS network:

Step 5. Submit request for archiving: Send an email to <u>NCCOS.data@noaa.gov</u> with this archive submission document attached. You may receive comments or clarifying questions as archiving proceeds. The final archive submission will be approved by your Branch Chief and submitted to NCEI. The NCEI archiving process typically takes about 2 weeks. Upon completion of the archive process, NCEI will issue an Accession number, publish ISO discovery metadata, and mint a digital object identifier (DOI). Your NCCOS Project webpage will be updated with a link to your accession.

Dataset Description	
*Dataset Title (Required)	National Coral Reef Monitoring Program: Socioeconomic surveys of human use, knowledge, attitudes, and perceptions in CNMI from 2016-08 to 2017-04
Short Title	NCRMP Socio CNMI 2016
*Dataset Description Brief description of the dataset, including spatial and temporal extent (if applicable), parameters, and format	The data in this file come from a survey of adult residents in the Commonwealth of Northern Mariana Islands (CNMI). The survey was conducted for a random stratified sample of households on the islands of Saipan, Tinian, and Rota from August 2016 to April 2017. These data were collected to record baseline human dimensions information and socioeconomic characteristics of CNMI's coral reef adjacent populations such as human use patterns, management support/opposition, and knowledge, attitudes, and perceptions of coral reefs/coral reef management. These baseline data are being used as a starting point for socioeconomic monitoring of CNMI's coral reefs. Data were collected through the telephone random digit dial survey method and the face to face interview method, and the total sample size for this survey was 722 with a response rate of 20%.
*Purpose	The National Coral Reef Monitoring Program (NCRMP) details a long-term
 Project overview Dataset purpose Partnerships 	approach to provide an ecosystem perspective via monitoring climate, fish, benthic, and socioeconomic variables in a consistent and integrated manner. The NCRMP in intended to coordinate various Coral Reef Conservation Program (CRCP) biological, physical, and human dimensions activities into a cohesive NOAA-wide effort. Through the implementation of the NCRMP, NOAA will be able to clearly and concisely communicate results of national-scale monitoring to national, state, and territorial policy makers, resource managers, and the public on a periodic basis.
*Methods	Resident surveys took place on the islands of CNMI in 2016 and 2017. CNMI
Brief description of model approach or observation sampling methods, including reference to publication	contains 3 inhabited islands: Saipan, Tinian, and Rota, and these islands were the sampling strata for NCRMP in CNMI. The potential respondent universe for this study was adults, eighteen years or older, who live on Saipan, Tinian, or Rota. Due to the importance of understanding all potential users of the coral reefs who may be affected by activities related to NOAA's CRCP, the survey was not restricted to those who live directly on the coastline. Therefore, all adults on the island were included in the potential respondent universe. Residents of CNMI over the age of 18 were surveyed via telephone and via face to face interviews from August 2016 to April 2017. To obtain a sample that did not over or under-sample regions of Saipan based on population density, the 2010 US Census population density data was initially used to develop a density dependent sampling strategy. It was quickly determined from field efforts that the 2010 population data for Saipan does not accurately represent present day population distribution. This is in part due to Typhoon Soudelor, which hit Saipan directly in August of 2015 and severely impacted infrastructure and housing. Face to face surveyors found that many of the areas in which the 2010 census data indicated high population density were still largely abandoned as of early 2017. Without accurate density information, the survey method was changed to a random approach in which the surveyors arbitrarily chose a section of the island from digital maps and drove in this area until an inhabited neighborhood was found. If more than one residence was present, the surveyor would approach every third door. If the approached residence in the sequence. Face to face interviewers used electronic tablets or laptops with the survey instrument programmed into an application that recorded time and duration of survey, the results of each house visited (i.e. no answer, refused survey, successful survey), and automatically skipped questions as necessary based upon answers to previous questions. Phone

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Cited Publications (Optional) Full citations	<pre>still "no answer" were re-entered into the re-call pool and used again as necessary. The CNMI online phone book was updated during the survey process, which increased the availability of working numbers and enabled the completion of the surveys. Contracted surveyors used Computer Assisted Telephone Interviewing (CATI) software for telephone surveys and offered the survey in four languages: English, Chamorro, Carolinian, and Tagalog. A total of 722 interviews were completed (702 by phone and 20 by face to face interview), yielding a response rate of approximately 20% (20% for telephone and 29% for face to face interviews). No names or personally identifiable information were collected during surveying.</pre> M. Gorstein, J. Loerzel, P. Edwards, A. Levine, and M. Dillard. In review. National Coral Reef Monitoring Program Socioeconomic Monitoring Component:
(including DOIs) of all	TM-NOS-CRCP-XX, XXp. + Appendices.
document	
*Project Webpage(s)	National Coral Reef Monitoring Program Implementation: Biological and Socioeconomic Monitoring https://coastalscience.noaa.gov/projects/detail?key=180 National Coral Reef Monitoring Program: Understanding Socioeconomic Connections https://www.coris.noaa.gov/projects/detail?key=180
Web Services (Optional)	[none]

People & Projects	
*Principal Investigator	Peter Edwards
Name, email, affiliation	peter.edwards@noaa.gov
	US DOC; NOAA; NOS; Coral Reef Conservation Program (CRCP)
Additional Principal	Jarrod Loerzel
Investigators	jarrod.loerzel@noaa.gov
(Optional) Name, email,	US DOC; NOAA; NOS; National Centers for Coastal Ocean Science (NCCOS)
affiliation. Include as	
many as applicable	
Primary Point of Contact	Matt Gorstein
(Optional) Name, email,	matt.gorstein@noaa.gov
affiliation	US DOC; NOAA; NOS; National Centers for Coastal Ocean Science (NCCOS)
Collaborators (Optional)	Arielle Levine - US DOC; NOAA; NOS; Coral Reef Conservation Program (CRCP)
Name, affiliation. Include	Justine Kimball - US DOC; NOAA; NOS; Coral Reef Conservation Program (CRCP)
as many as applicable	
who should be recognized	
for their contribution to	
this data collection,	
including co-Investigators.	
*Suggested Author List	Edwards, Peter;
Last name, first name;	Loerzel, Jarrod;
repeat as necessary, with	Levine, Arielle;
each author's name	Gorstein, Matt;
separated by a semi-	Dillard, Maria
colon, in any order that	
you would like. Middle	
initials optional.	
*NCCOS Funding	US DOC; NOAA; NOS; National Centers for Coastal Ocean Science (NCCOS)
Other Funding Agency	US DOC; NOAA; NOS; Coral Reef Conservation Program (CRCP)
(Optional)	
Partner Entity (Optional)	[none]
List any entities not listed	
above that you consider to	
be collaborators.	
*NCCOS Project Title	NCCOS Project #180, "National Coral Reef Monitoring Program Implementation:
	Biological and Socioeconomic Monitoring"

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Other Projects (Optional) If CRCP-funded, include project # and title.	CRCP Project #743, "National Coral Reef Monitoring Program (NCRMP) Socioeconomic Component: CNMI"
*NCCOS Branch Chief Provide your Branch Chief's name, Division and Branch.	John Christensen US DOC; NOAA; NOS; National Centers for Coastal Ocean Science (NCCOS); Center for Coastal Monitoring and Assessment (CCMA); Biogeography Branch

Dates, Locations, and Keywords (see <u>Appendix</u> for NCCOS Keywords)	
*Start Date	2016-08
(YYYY-MM-DD)	
*End Date	2016-04
(YYYY-MM-DD)	
*Northern Boundary	15.320843
(dd.ddddd)	
*Southern Boundary	14.072533
(dd.ddddd)	
*Western Boundary	145.076238
(dd.ddddd)	
*Eastern Boundary	145.873011
(dd.ddddd)	
Sea Areas, Water Bodies,	Northern Mariana Islands
Marine Protected Areas	
(Optional)	
NOAA Ships, Other Ships,	[none]
or Platforms	
(Optional)	
*Research Priorities	Social Science
	Long-term Monitoring
*Research Topics	Coral Reefs
*NCCOS Regions	International
*U.S. States and	Commonwealth of Northern Mariana Islands (CNMI)
Territories List all	
applicable	
*NCCOS Data Types	Field Observation
CoRIS Keywords	CoRIS Discovery Thesaurus:
(Required if CRCP-funded)	Geographic Information > Socioeconomic
See <u>link</u> for CoRIS	CORIS Theme Thesaurus:
keywords.	ARTH SCIENCE > BIOSPHERE > ZOOTOGY > COLAIS > REEL MONICOLING and
	EARTH SCIENCE > Biosphere > Zoology > Corals > Reef Monitoring and
	Assessment > Socio-economic Survey
	CoRIS Place Keywords:
	COUNTRY/TERRITORY > Northern Mariana Islands
	COUNTRY/TERRITORY > Northern Mariana Islands > Saipan
	COUNTRY/TERRITORY > Northern Mariana Islands > Tinian
	COUNTRY/TERRITORY > Northern Mariana Islands > Rota
GCMD Keywords	
(Leave blank) The NCCOS	
Data Manager will fill	
these out using the	
<u>current list</u>	

NCCOS Archive Submission: Tabular Data – NCRMP Socio CNMI 2016

Data File Description (copy this section as needed for each spreadsheet)	
*File Names	NCRMP-Socio-CNMI-2016_Data.csv
*File Sizes	236 MB
*File Formats	CSV
*Parameters or Variables	Human Activity
List major observed	
parameters or model	
output variables here;	
provide details for every	
column in the Data	
Dictionary section below.	
*Property Type	Measured
Choose Measured or	
Calculated	
*Units	Multiple
*Observation Category	Other
Choose laboratory	
analysis, model output, in	
situ, satellite, or other	
*Sampling Instrument If	documentation only - no instrument type
applicable, otherwise use	
model	
*Sampling and Analyzing	Data were collected via telephone using random digit dialing and via face to
Method	face interview, and the total sample size for this survey was 722 with a
 Description of 	response rate of 20%.
parameter	
 Description of units, 	
precision, and accuracy	
 How parameter was 	
measured/ collected	
*Data Quality Method	For a complete description of the data processing and analysis methods, see
 Data processing 	Gorstein et al. (in review).
method	
 Data analysis method 	

*Data Dictionary (copy this section as needed for each spreadsheet, edit/add/remove columns as applicable) (Required) See separate file "NCRMP-Socio-CNMI-2016_DataDictionary.pdf" for full survey codebook.

Comment: (To be filled out by Data Coordinator)	This is a NOAA/NCCOS dataset, please direct this archive submission package to Data Archivist Katharine Woodard or Lauren Jackson, NCEI-Stennis.// This is CRCP-funded, please also include Brian Beck and Sarah O'Connor, NCEI/CoRIS.//
	Please mint a digital object identifier for this accession.//
Keywords (Reformatted)	NCCOS Research Priority > Social Science NCCOS Research Priority > Long-term Monitoring NCCOS Research Topic > Coral Reefs NCCOS Research Location > Region > International NCCOS Research Location > U.S. States and Territories > Northern Mariana Islands NCCOS Research Location > Geographic Area > Coral Reefs NCCOS Research Data Type > Field Observation
Supplemental Information (Reformatted)	Project Webpage:// National Coral Reef Monitoring Program Implementation: Biological and Socioeconomic Monitoring https://coastalscience.noaa.gov/projects/detail?key=180 // National Coral Reef Monitoring Program: Understanding Socioeconomic Connections https://www.coris.noaa.gov/monitoring/socioeconomic.html //

Appendix: NCCOS Discovery Keywords

Research Priorities

- Marine Spatial Ecology
- Stressor Impacts and Mitigation •
- Coastal Change: Vulnerability, Mitigation, and • Restoration
- Social Science •

Research Topics

- **Ecological and Biogeographic Assessments** •
- Habitat Mapping •
- **Regional Ecosystem Science** •
- **Coastal Aquaculture Siting and Sustainability** •
- Harmful Algal Bloom (HAB) Detection and Forecasting Research Data Types •
- **Biological Effects of Contaminants and Nutrients** •
- Vulnerability and Risk Assessment •
- Natural and Nature-based Features
- **Climate Impacts on Ecosystems** •
- Restoration •
- **Ecosystem Services Valuation** •
- Assessing Human Use
- Assessing Vulnerability and Resilience

Research Locations

- Regions
 - o Atlantic Ocean
 - Bering Sea 0
 - Caribbean Sea 0
 - **Great Lakes** 0
 - 0 Gulf of Mexico
 - Pacific Ocean 0
 - o International
 - U.S. States and Territories
 - [list all applicable]

- **Field Observation** •
- Long-term Monitoring •
- Geospatial
- **Derived Data Product** •
- Model •
- **Field Experiment** •
- Laboratory Experiment