Sea Surface Temperature and Meteorological Mooring

Identification_Information:
  Citation:
    Citation_Information:
      Originator: Brainard, R. E.
      Publication_Date: 20021001
      Title: Near Real Time Sea Surface Temperature and Meterological Conditions from CREWS Standard Mooring at Maro Reef, NW Hawaiiain Islands
      Online_Linkage: http://crei.nmfs.hawaii.edu/oceanography/moorings/21529/data/21529_full_SIunits.asc
  Description:
    Abstract: Site: Maro Reef, NW Hawaiian Islands 25.45, -170.63
      Time series data from this mooring provide high resolution sea surface temperature, surface atmospheric pressure, air temperature, compass, and wind velocity components (U/V) ; for the surrounding coral reef ecosystem. Data telemetry also serves to alert researchers to the potential of imminent or ongoing coral reef bleaching or other natural events (hurricanes, storm damage, cooling, etc.) so that additional field observations and data collection efforts can be initiated, if warranted.
    Purpose: In situ monitoring of SST and meteorological conditions to correlate local conditions to coral health. Data telemetry to provide indications of current and imminent events. Provide ground truthing of various remote sensing products.
  Time_Period_of_Content:
    Time_Period_Information:
      Range_of_Dates/Times:
        Beginning_Date: 20021001
        Ending_Date: present
    Currentness_Reference: present
  Status:
    Progress: In Work
    Maintenance_and_Update_Frequency: Daily
  Spatial_Domain:
    Bounding_Coordinates:
      West_Bounding_Coordinate: -170.6301
      East_Bounding_Coordinate: -170.6299
      North_Bounding_Coordinate: 25.4501
      South_Bounding_Coordinate: 25.4499
  Keywords:
    Theme:
      Theme_Keyword_Thesaurus: CoRIS DIscovery Keywords Version 1.0
      Theme_Keyword: Numeric Data Sets > Oceanographic
    Theme:
      Theme_Keyword_Thesaurus: CoRIS Theme Keywords Version 1.0
      Theme_Keyword: Physical oceanographic data > Temperature > Sea Surface Temperature (SST)
      Theme_Keyword: EARTH SCIENCE > Oceans > Ocean Temperature > Sea Surface Temperature
      Theme_Keyword: Meteorological data > Temperature - air
      Theme_Keyword: EARTH SCIENCE > Atmosphere > Atmospheric Temperature > Air Temperature
      Theme_Keyword: Meteorological data > Barometric pressure
      Theme_Keyword: Meteorological data > Wind
      Theme_Keyword: EARTH SCIENCE > Atmosphere > Atmospheric Winds > Surface Winds
      Theme_Keyword: Coral reef > Coral reef monitoring and assessment > In situ meteorological
      Theme_Keyword: EARTH SCIENCE > Biosphere > Zoology > Corals > Reef monitoring and assessment > In situ meteorological
      Theme_Keyword: Coral reef > Coral reef monitoring and assessment > In situ physical
    Place:
      Place_Keyword_Thesaurus: CoRIS Place Keywords Version 1.0

Place_Keyword: OCEAN BASIN> Pacific Ocean > Central Pacific Ocean > Hawaiian Islands > NW Hawaiian Islands > Maro Reef (25N170W0001)
Place_Keyword: COUNTRY/TERRITORY > United States of America > Hawaii> Honolulu > Maro Reef (25N170W0001)
Access_Constraints: None
Use_Constraints: Preliminary data. Not appropriate for use in publications
Browse_Graphic:
Browse_Graphic_File_Name: http://crei.nmfs.hawaii.edu/oceanography/maps/21529_standard.jpg
Browse_Graphic_File_Description: Time series plot of, roughly, hourly sea surface temperature(ordinate) versus time(abscissa)
Browse_Graphic_File_Type: "JPG"
Distribution_Information:
Distributor:
Contact_Information:
Contact_Person_Primary:
Contact_Person: Ronald Hoeke
Contact_Organization: NOAA Fisheries Honolulu Laboratory Coral Reef Ecosystem Investigation
Contact_Address:
Address_Type: Mailing Address
Address: 1125B Ala Moana Blvd.
City: Honolulu
State_or_Province: HI
Postal_Code: 96814
Contact_Voice_Telephone: (808) 592-7028
Distribution_Liability: Disclaimer- While every effort has been made to ensure that these data are accurate and reliable within the limits of the current state of the art, NOAA cannot assume liability for any damages caused by any errors or omissions in the data, nor as a result of failure of the data to function on a particular system. NOAA makes no warranty, expressed or implied, nor does the fact of distribution constitute such a warranty.
Standard_Order_Process:
Digital_Form:
Digital_Transfer_Information:
Format_Name: ASCII
Format_Information_Content: CREI CREWS Mooring Header File

Telemetered datasets from the NOAA Fisheries Honolulu laboratory. Data columns are defined below. Units follow Systeme International(SI). Missing values are flagged with "nan"(not a number). Date/time are reported in UTC unless specified as local time zone. (Note The full scientific dataset will be uploaded upon recovery of the buoy. In the full datset all times are indexed to UTC.)

column 01= Argos ID number
column 02= Year of observation(YYYY)
column 03= Month of observation(MM)
column 04= Day of observation(DD)
column 05= Hour of observation(0- 23)
column 06= Compass value, (N | 0-360); degrees (every 6 hours)
column 07= Status of buoy's main battery(volts)
column 08= U component of Wind Speed; z = 2 m; meters/sec
column 09= V component of Wind Speed; z = 2 m; meters/sec
column 10= Atmospheric pressure at z = 1.8 m; millibars
column 11= Sea surface temperature at z = -0.3m; degrees C; (SBE39, Seabird Electronic Inc.)
column 12 = Conductivity; (unused, no values) 0.000 - 8.191 S/m
column 13 = Air temperature at z = 2 m; degrees C;
column 14 = Day of year (DDD | 1-366)

Online_Option:
Computer_Contact_Information:
Network_Address:
Network_Resource_Name:
http://crei.nmfs.hawaii.edu/oceanography/moorings/21529/data/21529_full_SIunits.asc
Fees: on-line data are available free of charge
Metadata_Reference_Information:
Metadata_Date: 20030508
Metadata_Contact:
Contact_Information:
Contact_Person_Primary:
Contact_Person: Sun He Bak
Contact_Organization: NOAA Fisheries Honolulu laboratory Coral Reef Ecosystem Investigation
Contact_Address:
Address_Type: Mailing Address
Address: 1125B Ala Moana Blvd.
City: Honolulu
State_or_Province: HI
Postal_Code: 96814
Contact_Voice_Telephone: (808) 592-7022
Metadata_Standard_Name: FGDC Content Standard for Digital Geospatial Metadata
Metadata_Standard_Version: FGDC-STD-001-1998