

GOA-ON North American Hub Meeting, 16-18 December, Huatulco Mexico

The GOA-ON North American Ocean Acidification Hub has been established to serve the countries of Mexico, Canada, and the United States. The Global Ocean Acidification Observing Network (GOA-ON) has encouraged grass-roots formation of regional hubs to foster communities of practice for the efficient collection of comparable and geographically distributed data to assess ocean acidification and its effects, and to support adaptation tools like model forecasts.

The goals of the GOA-ON North American Hub are to:

- Share information about readiness of the Observing Network
- Assist in data management
- Promote community “best-practices” within a hub’s domain consistent with GOA-ON
- Provide integration of the global network through synthesis product development

The priorities for the GOA-ON North American Hub are to help support the development of synthesis products, facilitate data exchanges, support the observing system via training, develop uniform quality control procedures, and develop OA messages for policy makers and the general public.

2019 GOA-ON North American Hub Meeting Agenda

Monday 16 December 2019, Huatulco Campus

8:30 Welcome – Cecilia Chapa Balcorta, Universidad del Mar, Puerto Ángel, México and Antonio Lopez Director of the Oceanology department at Universidad de Mar (20 Minutes)

8:50 Introduction and History – Richard Feely, PMEL/NOAA (20 Minutes) Charge: Address Goals of the Hub and Charge for the meeting. 1) Define our Mission Statement; 2) What is the readiness of the observing system and what are its strengths and weaknesses; 3) How can we improve data accessibility and data product development; and 4) What kinds of “best-practices” products would be most useful to the Hub?

9:10 Goals of the GOA-ON and GOA-ON Data Portal - Jan Newton, University of Washington (30 Minutes + 20 Minute discussion) Charge: Goals and Objectives of GOA-ON and how they relate to the GOA-ON website and GOA-ON Data Portal.

10:00 Morning Break (15 Minutes)

10:15 Overview of Mexico OA Program – Martín Hernández, Universidad Autónoma de Baja California (45 Minutes + 15 Minute discussion) Charge: Provide an overview of the Mexican Ocean Acidification Program and provide examples of how it can best interface with the United States and Canada networks. Can we share results and produce joint publications and data products?

11:15 Overview of Canada Community of Practice Program – Brent Else, University of Calgary (45 Minute + 15 Minutes discussion) Charge: Provide an overview of the Canadian Community of Practice Program and provide examples of how it can best interface with the United States and

Mexico networks. Can we collaborate on cruises in different years to provide more coverage? Can we share results and produce joint publications and data products?

12:15 Lunch (75 minutes)

13:30 Overview of US OA Program – Libby Jewett, NOAA OAP (45 Minute + 15 Minute discussion) Charge: Provide an overview of the US Ocean Acidification Program and provide examples of how it can best interface with Canada and Mexico. How can we share results and produce joint publications and data products? How can we share approaches for analyzing time-series data? Can we have a joint data and information exchange?

14:30 Overview of Biological Responses to OA – Helen Gurney-Smith, Fisheries and Oceans Canada (30 Minutes + 10 Minute discussion) Charge: Provide an overview of what we know about biological responses to ocean acidification and how we can enhance our field programs to address these responses.

15:10 Afternoon Break (20 Minutes)

15:30 Overview of Development and Applicability of indicators for Ocean Acidification – Nina Bednarsek, Southern California Coastal Water Research Project (30 Minutes + 10 Minute discussion) Charge: Provide an overview of what we know about the use of biological indicators and how we can use them to support field observations, modeling activities and management decisions.

16:10 North American Hub priorities - Discussion Leader: Richard Feely (30 Minutes + 20 Minute discussion) Charge: Discuss how what we have learned today can be utilized to address the major priorities of the North American Hub.

17:00 Adjourn for the day and Group Dinner (TBD)

Tuesday December 17, 2019, Huatulco Campus

9:00 Opportunities for Training and Best Practices – Discussion Leader: Alicia Cheripka, NOAA OAP (30 Minutes + 30 Minute discussion) Charge: Discuss how development of best practices and training events can be implemented to encourage collaboration among Hub members. What Pier-2-Peer and GOA-ON training opportunities are available for the North American Hub community?

10:00 Opportunities for Collaboration – Discussion Leaders: Debby Ianson, DFO, Canada (30 Minutes + 30 Minute discussion) Charge: Discuss how cruise activities, training activities, and modeling can be enhanced to encourage collaboration among Hub members.

11:00 Morning Break (30 Minutes)

11:30 Data Exchanges and North American Hub Website - Discussion Leader: Jan Newton, University of Washington (30 Minutes + 30 Minute discussion) Charge: How can we facilitate data exchanges between the three countries? What synthesis products can we collaborate on?

12:30 Lunch (90 minutes)

14:00 GOA-ON North American Synthesis Manuscript Outline Discussion Leaders: Wiley Evans and Wei Jun Cai (30 Minutes + 30 Minute discussion)

15:00 Afternoon Break (30 minutes)

15:30 Meeting Summary and Final discussion - Richard Feely - (30 Minute + 30 Minute discussion) Charge: Provide a summary of the meeting and define the next steps.

16:30 Adjourn for the day

Wednesday December 16, 2019, Puerto Ángel Campus

9:00 Dr. Martín Hernández Ayón will present the Mexican Carbon Program International Recognition Award to Dr. Richard Feely (30 minutes)

9:30 Seminar by Dr. Richard Feely (40 Minutes + 20 Minutes discussion).

10:30 Morning break (30 Minutes)

11:00 Seminar by Dr. Wei Jun Cai (40 Minutes + 20 Minutes discussion).

12:00 Seminar by Dr. Jan Newton (40 Minutes + 20 Minutes discussion).

13:00 Adjourn Meeting

VENUE

The GOA-ON North American Ocean Acidification Hub Workshop will be held at Universidad del Mar

**Ciudad Universitaria SN
Huatulco, Oaxaca 70902**

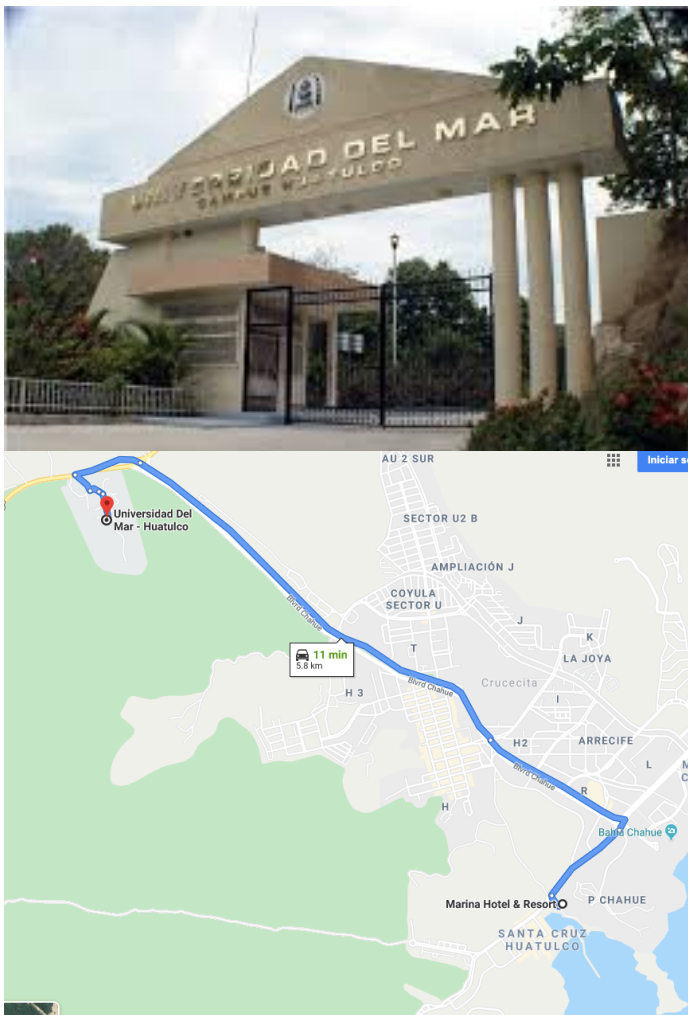
Room: Auditorio general

Capacity 200 people

Wifi Access

Coffee break and lunch on Dec 16th and 17th will be provided

UMAR will provide transport to and from the hotel



Universidad del Mar -Huatulco Campus
Map
www.umar.mxrv_huatulco_campus.html

ACCOMODATIONS

We have rooms reserved for three nights at Marina Hotel and Resort : Reservation code is 87054

Rate is \$1246 pesos per night (66 USD); Breakfast and access to the hotel beach club is included

Address: Calle Tehuantepec #112 , 70989 Santa Cruz, Huatulco, México

Phone: 9585870963



FLYING TO BAHIAS DE HUATULCO

Bahías de Huatulco International Airport is serviced by flights from:

- Mexico City Airport (MEX)
- Oaxaca City (OAX)
- Tuxtla Gutiérrez, Chiapas
- Toronto-Pearson International Airport (YYZ)
- Vancouver International Airport (YVR)
- Calgary International Airport (YYC)
- Chicago-O'Hare International Airport (ORD)



Transportation to from the airport to the hotel

UMAR will provide a bus from the airport to the Hotel on December 15th and from the hotel to the airport on December 18th.

In addition, an Airport Shuttle Bus runs regularly between the airport and Huatulco (<https://www.amstardmc.com/airport-transfers/huatulco/>). Fare is \$22.0 USD

Taxi service is available on the highway off the airport (less than 1/4 mile) at a much lesser price (25-50 pesos, around \$3 USD).

ADDITIONAL TRAVEL OPTIONS

ALTERNATIVE AIRPORT

Puerto Escondido Airport (PXM) is serviced by flights from:

Mexico City Airport (MEX)

Oaxaca City (OAX)

Guadalajara

Queretaro

Puerto Escondido is approximately 120 km from Bahías de Huatulco.

Buses from Puerto Escondido

12 daily trips run between Puerto Escondido and Bahías de Huatulco. Here are the timetables:

FROM PUERTO ESCONDIDO:

SUR buses leave the station at 06:00, 07:00, 08:00, 09:00, 10:00, 11:00, 12:00, 13:00, 14:00, 15:00, 17:00, 18:00, and 19:20.

OCC buses leave at 07:00, 14:30, 15:35, 16:00, 17:30, 18:00, 18:30, 20:00, 20:45, and 21:30.

FROM HUATULCO TO PUERTO ESCONDIDO:

OCC buses leave at 03:20, 05:25, 05:55, 06:55, 07:50, 07:55, 08:40, 11:40, and 18:15.

SUR buses leave at 06:00, 07:00, 08:00, 09:00, 10:00, 11:00, 12:00, 13:00, 14:00, 15:30, 17:00, 18:00, 19:00