



GOA-ON is a collaborative international approach to document the status and progress of ocean acidification in open-ocean, coastal, and estuarine environments, to understand the drivers and impacts of ocean acidification on marine ecosystems, and to provide spatially and temporally resolved biogeochemical data necessary to optimize modeling for ocean acidification.

[www.goa-on.org](http://www.goa-on.org)



## Three high level goals:

- Improve our understanding of OA conditions
- Improve our understanding of ecosystem response to OA
- Acquire and exchange data and knowledge required to optimize forecasts for OA and its impacts



GOA-ON has:

- A distributed Secretariat, with members placed in US NOAA, IOC-UNESCO, and IAEA, and technical staff at University of Washington
- 8 regional hubs: Arctic, Latin America (LAOCA), Mediterranean (OA-Med), North America, North East Atlantic, Africa, Pacific Islands & Territories (PI-TOA), Western Pacific (WESTPAC)

# Countries included in the Global Ocean Acidification Observing Network (GOA-ON) in 2021:



<b>Algeria</b>	<b>Djibouti</b>	<b>Jamaica</b>	<b>Palau</b>	<b>Tonga</b>
<b>Angola</b>	<b>Dominican Republic</b>	<b>Japan</b>	<b>Panama</b>	<b>Trinidad &amp; Tobago</b>
<b>Antigua &amp; Barbuda</b>	<b>DR Congo</b>	<b>Jordan</b>	<b>Papua New Guinea</b>	<b>Turkey</b>
<b>Argentina</b>	<b>Ecuador</b>	<b>Kenya</b>	<b>Peru</b>	<b>Turks &amp; Caicos</b>
<b>Australia</b>	<b>Egypt</b>	<b>Korea</b>	<b>Philippines</b>	<b>UK</b>
<b>Bangladesh</b>	<b>Estonia</b>	<b>Kuwait</b>	<b>Poland</b>	<b>Uruguay</b>
<b>Barbados</b>	<b>Faroe Islands</b>	<b>Lebanon</b>	<b>Portugal</b>	<b>USA</b>
<b>Belgium</b>	<b>Fiji</b>	<b>Madagascar</b>	<b>Russia</b>	<b>Vanuatu</b>
<b>Belize</b>	<b>Finland</b>	<b>Malaysia</b>	<b>Samoa</b>	<b>Venezuela</b>
<b>Benin</b>	<b>France</b>	<b>Mauritius</b>	<b>Sénégal</b>	
<b>Bermuda</b>	<b>Germany</b>	<b>Mexico</b>	<b>Seychelles</b>	<b>Total: 105 countries</b>
<b>Brazil</b>	<b>Ghana</b>	<b>Micronesia</b>	<b>Sint Maarten</b>	
<b>Cameroon</b>	<b>Greece</b>	<b>Monaco</b>	<b>Solomon Islands</b>	
<b>Canada</b>	<b>Grenada</b>	<b>Morocco</b>	<b>Somalia</b>	
<b>Chile</b>	<b>Guatemala</b>	<b>Mozambique</b>	<b>South Africa</b>	
<b>China</b>	<b>Guinea</b>	<b>Myanmar</b>	<b>Spain</b>	
<b>Colombia</b>	<b>Honduras</b>	<b>Namibia</b>	<b>Sri Lanka</b>	
<b>Cook Islands</b>	<b>Iceland</b>	<b>Netherlands</b>	<b>Sudan</b>	
<b>Costa Rica</b>	<b>India</b>	<b>New Caledonia</b>	<b>Sweden</b>	
<b>Cote d'Ivoire</b>	<b>Indonesia</b>	<b>New Zealand</b>	<b>Switzerland</b>	
<b>Croatia</b>	<b>Iran</b>	<b>Nicaragua</b>	<b>Taiwan</b>	
<b>Cuba</b>	<b>Ireland</b>	<b>Nigeria</b>	<b>Tanzania</b>	
<b>Curacao</b>	<b>Israel</b>	<b>Norway</b>	<b>Thailand</b>	
<b>Denmark</b>	<b>Italy</b>	<b>Oman</b>		



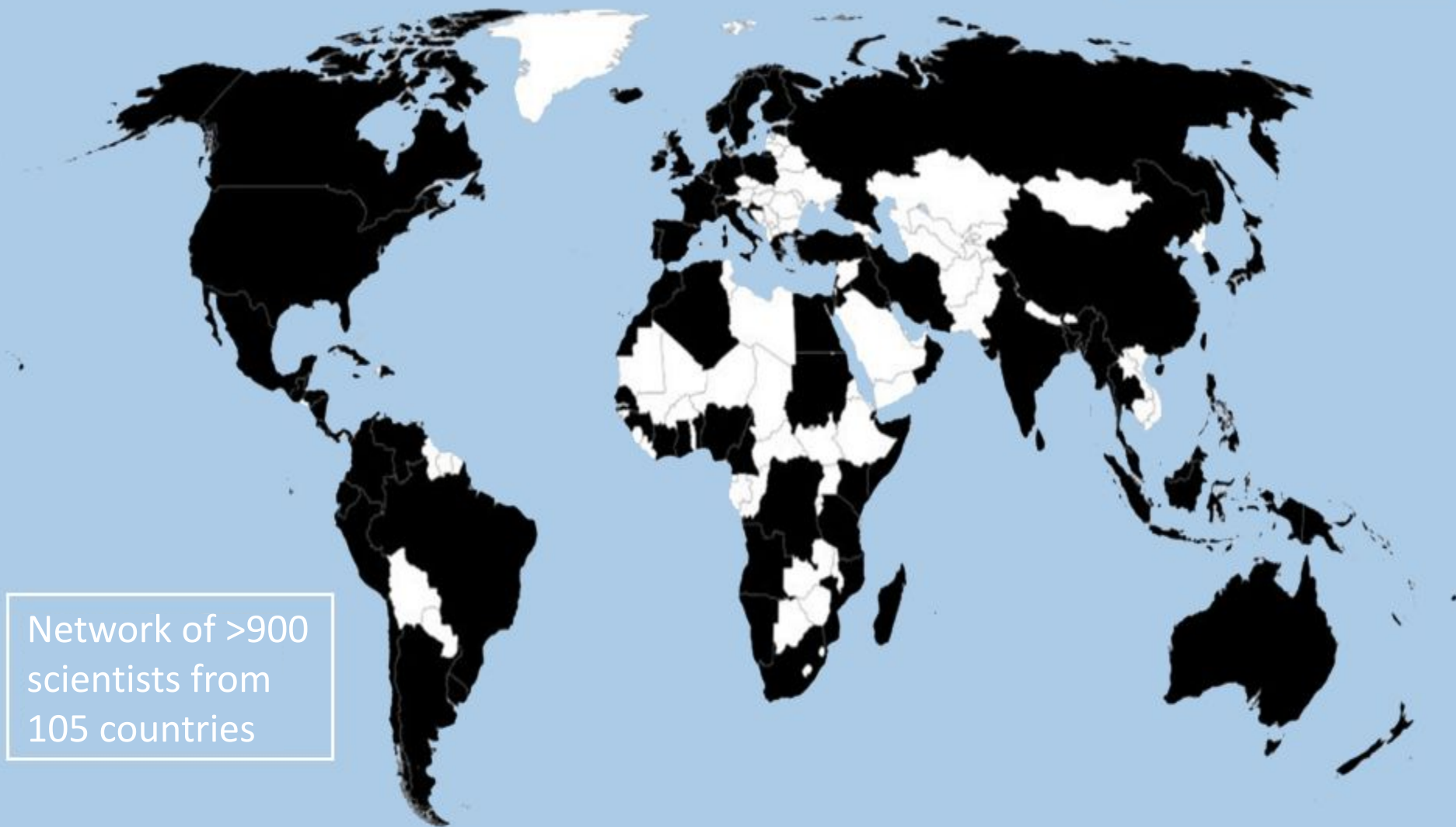
# GOA-ON in 2013



Network of 150  
scientists from  
31 countries

Data from validated 1st & 2nd GOA-ON workshop participant lists (Seattle, Washington 2012 & St. Andrews, UK 2013)

# GOA-ON in 2021



Network of >900  
scientists from  
105 countries

Data from [www.goa-on.org](http://www.goa-on.org) current members list

Excluding representatives of UN bodies