

## **I. Background/context about this activity:**

When addressing a global issue like sustainable fisheries, the diverse views of different stakeholders need to be understood and considered. What pleases one stakeholder will displease another, and vice versa. All perspectives need to be taken into account for a policy recommendation to be successful, and there needs to be a process for vetting so that a compromise can be reached.

This debate activity will help you consider different stakeholder perspectives on three topics that are central to the issue of sustainable fisheries. The debate topics are:

### **Debate Section topics:**

1. Fishing in the US and much of the world is approaching sustainable targets & fishing down the food web is a myth: Yes – Team Fish More!, No – Team Stop Overfishing!
2. Marine protected areas are a viable solution (Team Stop Overfishing!) vs. marine protected areas are a detriment to wild fishing (Team Fish More!)
3. Fishing and my commercial fishing business is my only source of income for my family. I have to catch more to make ends meet. Yes – Team Fish More!, No – Team Stop Overfishing!

For each debate, your team will be assigned one of three roles: conservationist, fisher, or debate observer. Every team will participate in each role with each debate topic. For example,

Debate 1: Group X will be Team Stop Overfishing, Group Y will be Team Fish More, Group Z will provide feedback.

Debate 2: Group Y will be Team Stop Overfishing, Group Z will be Team Fish More, Group X will provide feedback

Debate 3: Group Z will be Team Stop Overfishing, Group X will be Team Fish More, Group Z will provide feedback

## **II. Instructions:**

### **Format of your Debate Presentation**

Each debate team will have 8-12 minutes to present their side of the argument.

Suggested Debate Presentation Structure:

- Opening statement from 1 team member – 1 min
  - Introduction to the debate topic
  - What side are you speaking on? (Team Fish More! – Fishers OR Team Stop Overfishing! – Fish Conservationists)
- Points to support your side, each team member has 2-3 min; in total 6-9 min
  - Aim for 1 point presented by each team member
- Closing Statement from 1 team member – 1 min
  - Conclusion on your side

- Why your side is worth listening to and considering in addressing your debate topic?

In preparation for the debate, each team should meet at least once to develop your overall strategy. You need to decide who will lead and close each debate section: what your talking points will be, the research you will use in support of the points, and who will present each point.

You have the option to record your presentation in audio or video format. You can also choose to use slides to present your side in the debate, but you still need to present and debate your side. You can use Zoom to record your debate presentation or any other preferred method. Please upload video/ audio files as .mpg, mpeg, mp4 formats if possible.

Upload your two recordings (only one person from each Team needs to do this) to the appropriate Discussion Boards containing your designated debate by 11:59PM EST, Wednesday March 31.

### **Format of your feedback on Debate Presentation**

After the debate teams have posted their presentations, the feedback team for each debate topic will view those recordings and write a reply that addresses the following questions:

- 1) Which debate did you observe and evaluate?
- 2) What points made by "Team Fish More!" were convincing and agreeable to you during the debate? Why?
- 3) What points made by "Team Stop Overfishing!" were convincing and agreeable to you during the debate? Why?
- 4) What are things to improve on for Team Fish More! Debate?
- 5) What are things to improve on for Team Stop Overfishing! Debate?
- 6) What is a possible compromise that can be reached for both sides?

Each member of the feedback team should individually post their feedback to the debate. Post your feedback to the appropriate Discussion Boards by 11:59PM EST, Friday April 2.

\*Please note video/ audio files may not be compatible to your computer depending if you are using a PC or a Mac; if you are unable to view the video/ audio files, please contact me ASAP.

### **III. Team Assignments**

Debate 1: Fishing in the US and much of the world is approaching sustainable targets & fishing down the food web is a myth:

Team Sandcastle: Yes – Team Fish More!

Team Dory: No – Team Stop Overfishing!

Team C: Providing feedback on Debate

Debate 2: Marine protected areas are a viable solution (Team Stop Overfishing!) vs. marine protected areas are a detriment to wild fishing (Team Fish More!)

Team Dory: Yes – Team Fish More!

Team C: No – Team Stop Overfishing

Team Sandcastle: Providing feedback on Debate

Debate 3: Fishing and my commercial fishing business is my only source of income for my family. I have to catch more to make ends meet. Yes – Team Fish More!, No – Team Stop Overfishing!

Team C: Yes – Team Fish More!

Team Sandcastle: No – Team Stop Overfishing

Team Dory: Providing feedback on Debate

### **IV. Recommended Resources that will help to complete this activity and achieve its goal(s):**

The following is a list of resources that may help you complete this activity. I recommend you read through this list and read through their titles first, and then inquire more.

You are also welcome to explore other reputable resources.

video: Dr. Jane Lubchenco, Acknowledging doom and what holistic approaches bring to people and the ocean: <https://www.youtube.com/watch?v=Jeu9sROItow>

video: Dr. Ray Hilborn, A comparison of the Environmental costs of food: <https://www.youtube.com/watch?v=YCRC3ZnJzso>

video: Dr. Daniel Pauly, Jellyfish Burgers or how we changed the oceans and they changed us: [https://www.youtube.com/watch?v=myUoi\\_xWeiY](https://www.youtube.com/watch?v=myUoi_xWeiY)

*To find and access these, you can use Northeastern's Snell Library (<http://library.northeastern.edu/myaccount>) or Google Scholar.*

*Some of these papers may require to log in through your Institution which you can use your Northeastern ID for these. You should not need to pay for these articles if you use your Northeastern ID.*

Costello, C., S. D. Gaines, and J. Lynham. 2008. Can Catch Shares Prevent Fisheries Collapse? *Science* 321:1678-1681.

Gutierrez, N. L., R. Hilborn, and O. Defeo. 2011. Leadership, social capital, and fisheries promote successful fisheries. *Nature* 470:386-389.

Hicks, C. C., P. J. Cohen, N. A. J. Graham, K. L. Nash, E. H. Allison, C. D'Lima, D. J. Mills, M. Roscher, S. H. Thilsted, A. L. Thorne-Lyman, and M. A. MacNeil. 2019. Harnessing global fisheries to tackle micronutrient deficiencies. *Nature* 574:95-98.

Hicks, C. C., A. Levine, A. Agrawal, X. Basurto, S. J. Breslow, C. Carothers, S. Charnley, S. Coulthard, N. Dolsak, J. Donatuto, C. Garcia-Quijano, M. B. Mascia, K. Norman, M. R. Poe, T. Satterfield, K. St. Martin, and P. S. Levin. 2016. Engage key social concepts for sustainability. *Science* 352:38-40.

Jackson, J. B. C., M. X. Kirby, W. H. Berger, K. A. Bjorndal, L. W. Botsford, B. J. Bourque, R. H. Bradbury, R. Cooke, J. Erlandson, J. A. Estes, T. P. Hughes, S. Kidwell, C. B. Lange, H. S. Lenihan, J. M. Pandolfi, C. H. Peterson, R. S. Steneck, M. J. Tegner, and R. R. Warner. 2001. Historical overfishing and the recent collapse of coastal ecosystems. *Science* 293:629-638.

Johnson, A. E., and J. B. C. Jackson. 2015. Fisher and diver perceptions of coral reef degradation and implications for sustainable management. *Global Ecology and Conservation* 3:890-899.

Ostrom, E. 2009. A general framework for analyzing sustainability of social-ecological systems. *Science* 325:419-422.

Pauly, D., V. Christensen, J. Dalsgaard, R. Froese, and F. Torres Jr. 1998. Fishing down marine food webs. *Science* 279:860-863.

Pauly, D., V. Christensen, S. Guénette, T. J. Pitcher, U. R. Sumaila, C. J. Walters, R. Watson, and D. Zeller. 2002. Towards sustainability in world fisheries. *Nature* 418:689-695.

Pinsky, M., and M. Fogarty. 2012. Lagged social-ecological responses to climate and range shifts in fisheries. *Climatic Change* 115:883-891.

Worm et al. 2009. Rebuilding Global Fisheries. *Science* 325:578-585.

Coulthard, S., Johnson, D. and McGregor, J.A., 2011. Poverty, sustainability and human wellbeing: a social wellbeing approach to the global fisheries crisis. *Global Environmental Change*, 21(2), pp.453-463.

Pollnac, R.B., Seara, T. and Colburn, L.L., 2015. Aspects of fishery management, job satisfaction, and well-being among commercial fishermen in the northeast region of the United States. *Society & Natural Resources*, 28(1), pp.75-92.

Bennett, N.J., 2019. Marine social science for the peopled seas. *Coastal Management*, 47(2), pp.244-252.