The spatial intersection between high-seas fisheries and deep-sea mining areas

Dr Jesse van der Grient
University of Hawai‘i
The deep sea has links to our dinner plates

Drazen et al. 2020
High-seas fisheries are present in licensed mining areas.
Intersection, as proxy for conflict, is dependent on many factors

- Intersection is location specific, and depends on distance away from mining areas
- CCZ with IATTC have the highest levels of intersection
- Countries show different levels of intersection, varying from low to high levels of intersection
  - Countries with the highest catches
  - Small island and/or developing nations

Article soon to be submitted

Fish art: Les Hata
Intersection, as proxy for conflict, is dependent on many factors

- Intersection is location specific, and depends on distance away from mining areas
- CCZ with IATTC have the highest levels of intersection
- Countries show different levels of intersection, varying from low to high levels of intersection
  - Countries with the highest catches
  - Small island and/or developing nations

<table>
<thead>
<tr>
<th>Distance</th>
<th>Intersection Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>50-km</td>
<td>0.11-0.50%</td>
</tr>
<tr>
<td>100-km</td>
<td>0.25-1%</td>
</tr>
<tr>
<td>200-km</td>
<td>0.5-2.1%</td>
</tr>
</tbody>
</table>

50-km: 3.3-5.6%
100-km: 4.6-7.6%
200-km: 6.6-10.7%

50-km: 0.26-0.28%
100-km: 0.28-0.47%
200-km: 0.49-0.66%
Intersection, as proxy for conflict, is dependent on many factors

- Intersection is location specific, and depends in part on distance away from mining areas
- CCZ with IATTC have the highest levels of intersection
- Countries show different levels of intersection, varying from low to high levels of intersection
  - Countries with the highest catches
  - Small island and/or developing nations
Intersection, as proxy for conflict, is dependent on many factors

- Intersection is location specific, and depends in part on distance away from mining areas
- CCZ with IATTC have the highest levels of intersection
- Countries show different levels of intersection, varying from low to high levels of intersection
  - Countries with the highest catches
  - Small island and/or developing nations (some are ‘Flags of Convenience’)

American Samoa: 42%
Cook Islands: 21%
Kiribati: 11-19%
Vanuatu: 11%
Belize: 35-52%
Guam: 11-14%
High-seas fisheries as stakeholders

• Representatives of the fishing industry should be aware of the potential spatial intersections

• High-seas fisheries should be stakeholders as the mining regulations and industry develop
  • Their contributions as another stakeholder in the blue economy are vital
Acknowledgements

- Coauthors – Phoebe Woodworth-Jefcoats & Jeffrey Drazen
- Funding – Benioff Ocean Initiative
- Webinar – PEW/RESOLVE