Typology of the main threats facing different forest types

1. Proximity to settlements, infrastructure, road network
2. Climate change and sea level rising
3. Fires and subsistence agriculture
4. Pollution
5. Commercial agriculture, logging and mining concessions
6. Over collecting NTFP (firewood, bamboos, rattans, resins, mushroom, fibres)
7. Invasive species
Proximity to settlements, Infrastructure, road network

https://ngdc.noaa.gov/eog/dmsp/downloadV4composites.html
Climate changes and sea level rising

Köppen-Geiger Climate Classification
1980–2016

http://www.gloh2o.org/koppen/

Coastal DEM

Kulp and Strauss, 2019
Forest fire and swidden agriculture

Detecting forest fires with satellites (MODIS and VIIRS)

Assess and monitor the spatial and temporal dynamics of shifting cultivation
Jakovac et al. 2017
Dutrieux et al. 2016
Pollution

NO$_2$ hotspots over Jakarta, Banten and West Java, CREA 2020

https://www.pollution.org/
Industrial agriculture, logging and mining concessions

https://www.globalforestwatch.org/
Fragmentation (FRAGSTATS), GUIDOS Toolbox etc...

- Minimal patch size for primary forest
- Level of acceptable fragmentation within the landscape
- Degree of isolation of patches

<table>
<thead>
<tr>
<th>Increase</th>
<th>Decrease</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of patches</td>
<td>Total core area</td>
</tr>
<tr>
<td>Euclidean Nearest Neighbor</td>
<td>Edge density</td>
</tr>
</tbody>
</table>
Produce a matrix identifying the different threats faced by different types of primary forest mentioned in session 1.

THANK YOU