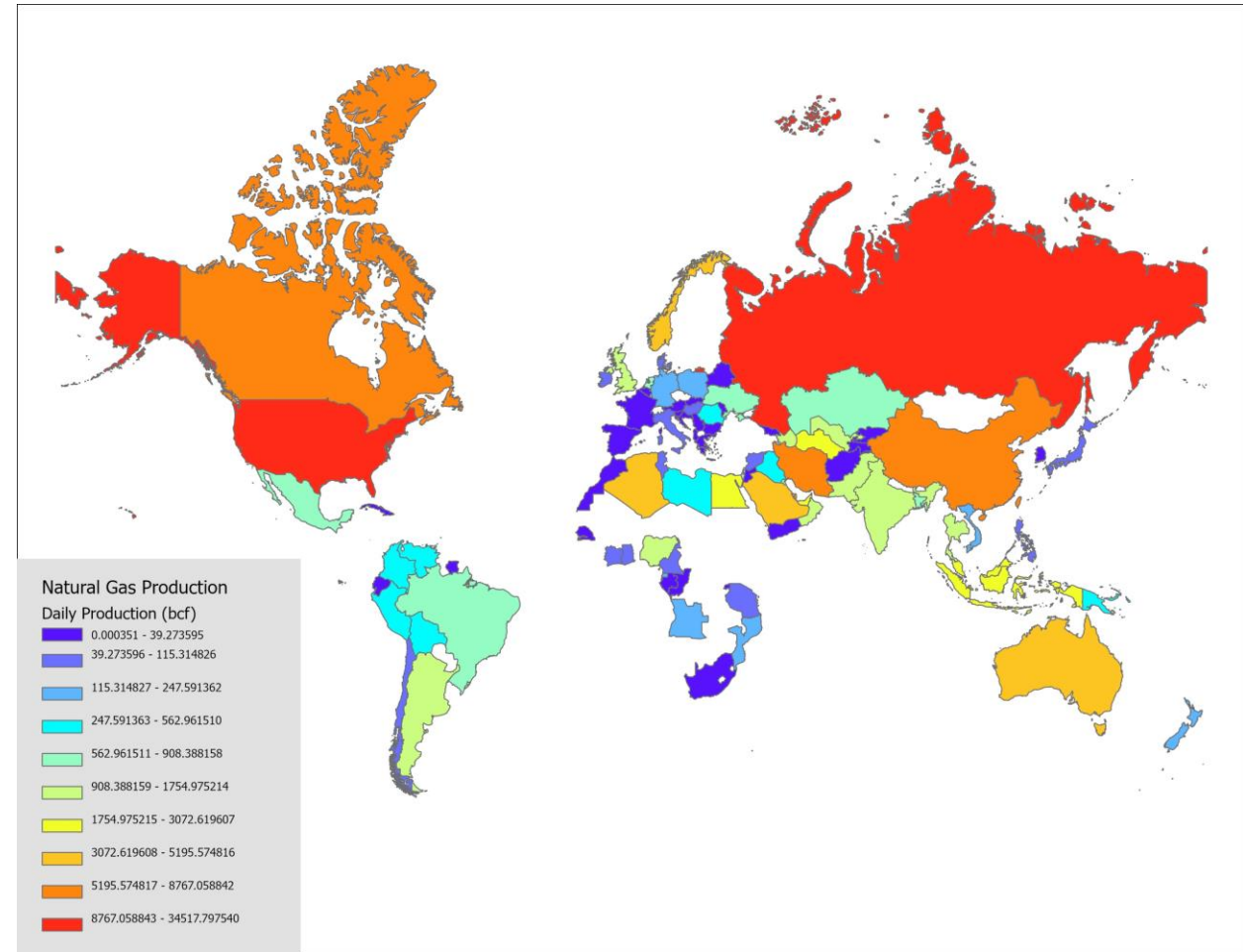


# Emissions

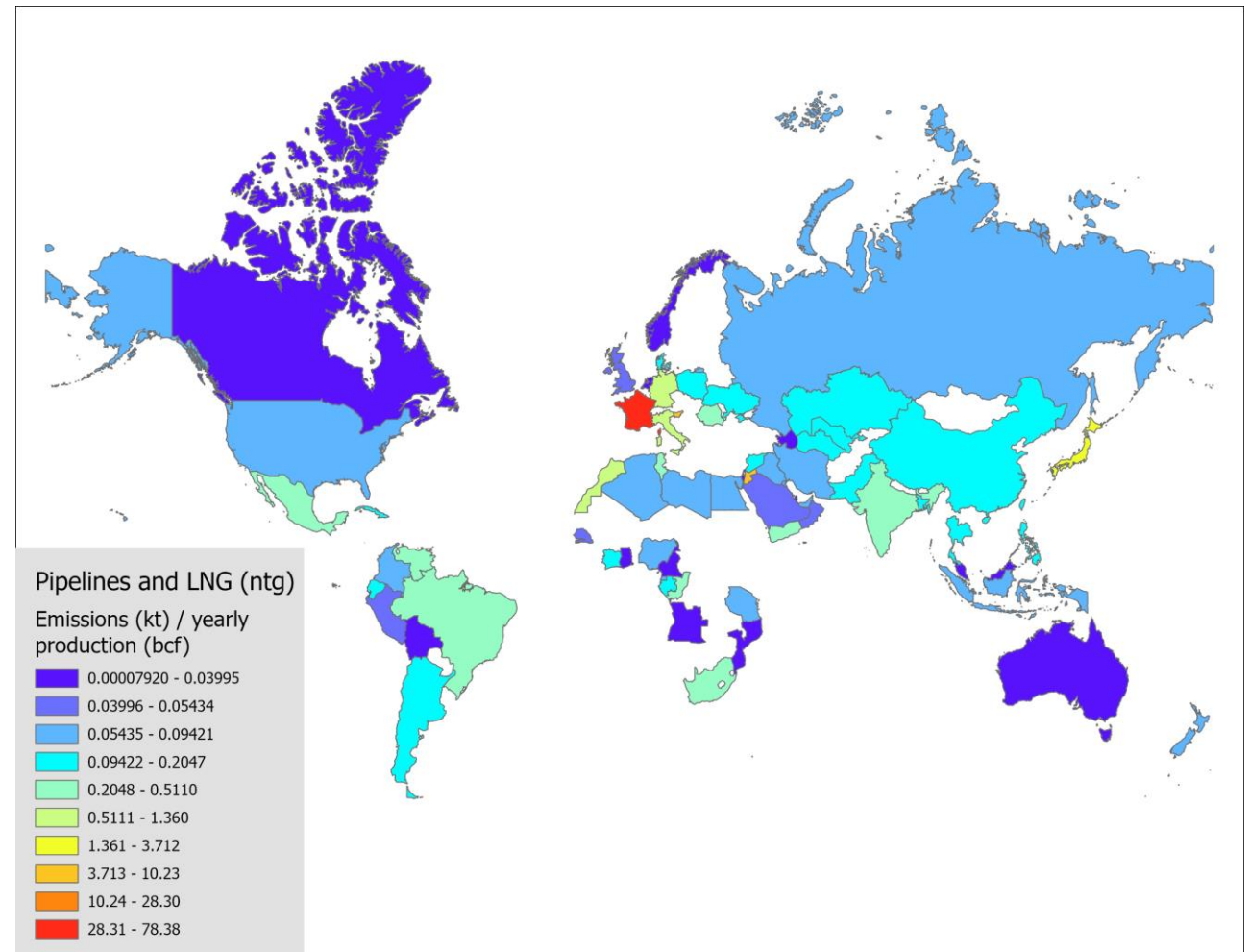
# Gas Production

- Larger producers tend to have more land.
- Map is for reference of upcoming analyses
- Does not distinguish between onshore and offshore



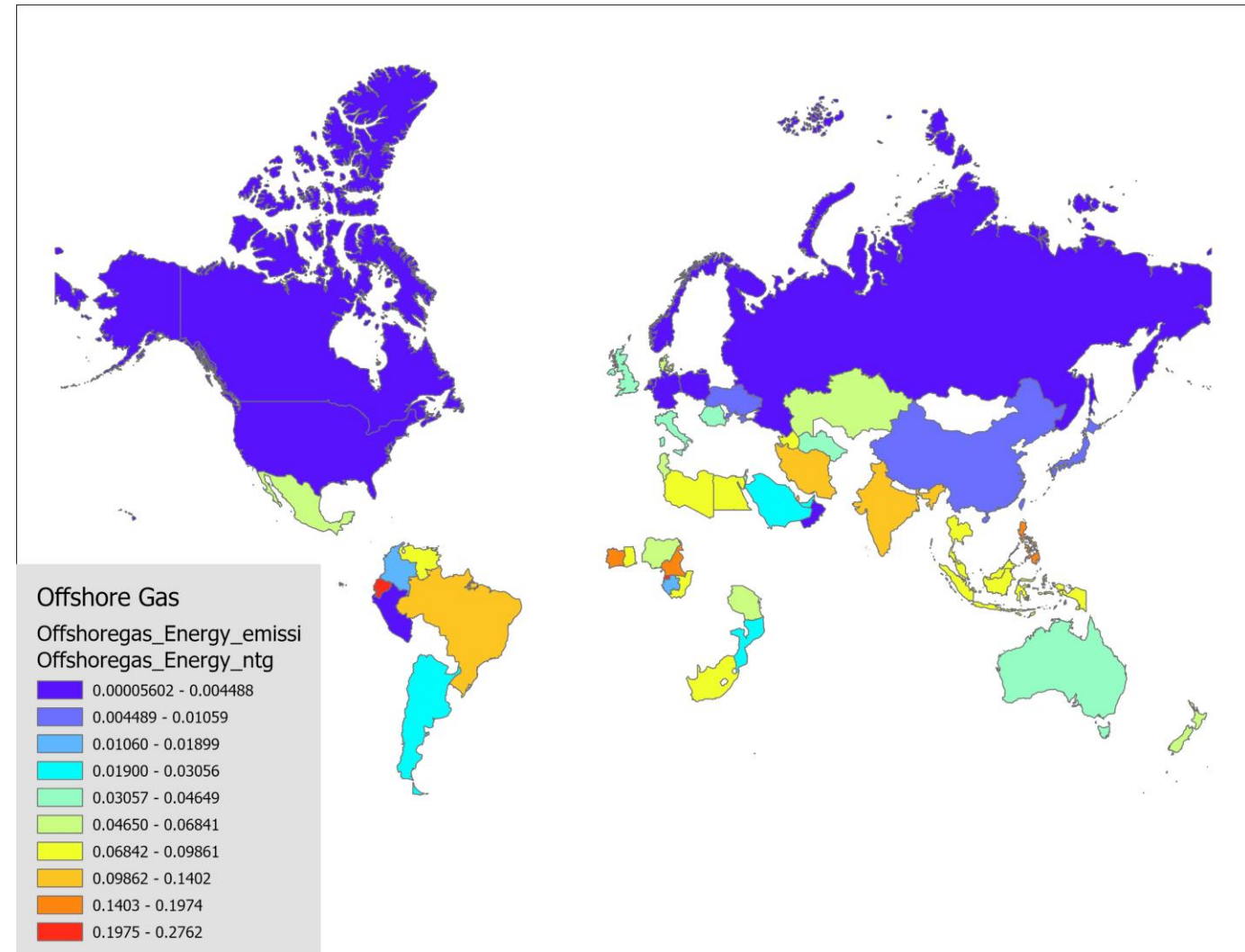
# Gas Emissions (LNG and Pipelines)

- France and Israel appear to have extreme emissions per NTG(natural gas) production
- France actually has minimal NTG production, but some large LNG facilities for importing  
([https://en.wikipedia.org/wiki/List\\_of\\_LNG\\_terminals](https://en.wikipedia.org/wiki/List_of_LNG_terminals))
  - Also likely had a surge in gas imports as response to Ukraine invasion, since emissions data is from 2022
- Israel also has a large LNG gas facility that supplies half it's gas needs, since Israel is effectively an island in its region  
(<https://exceleerateenergy.com/projects/hadera-deepwater-lng-terminal/>)



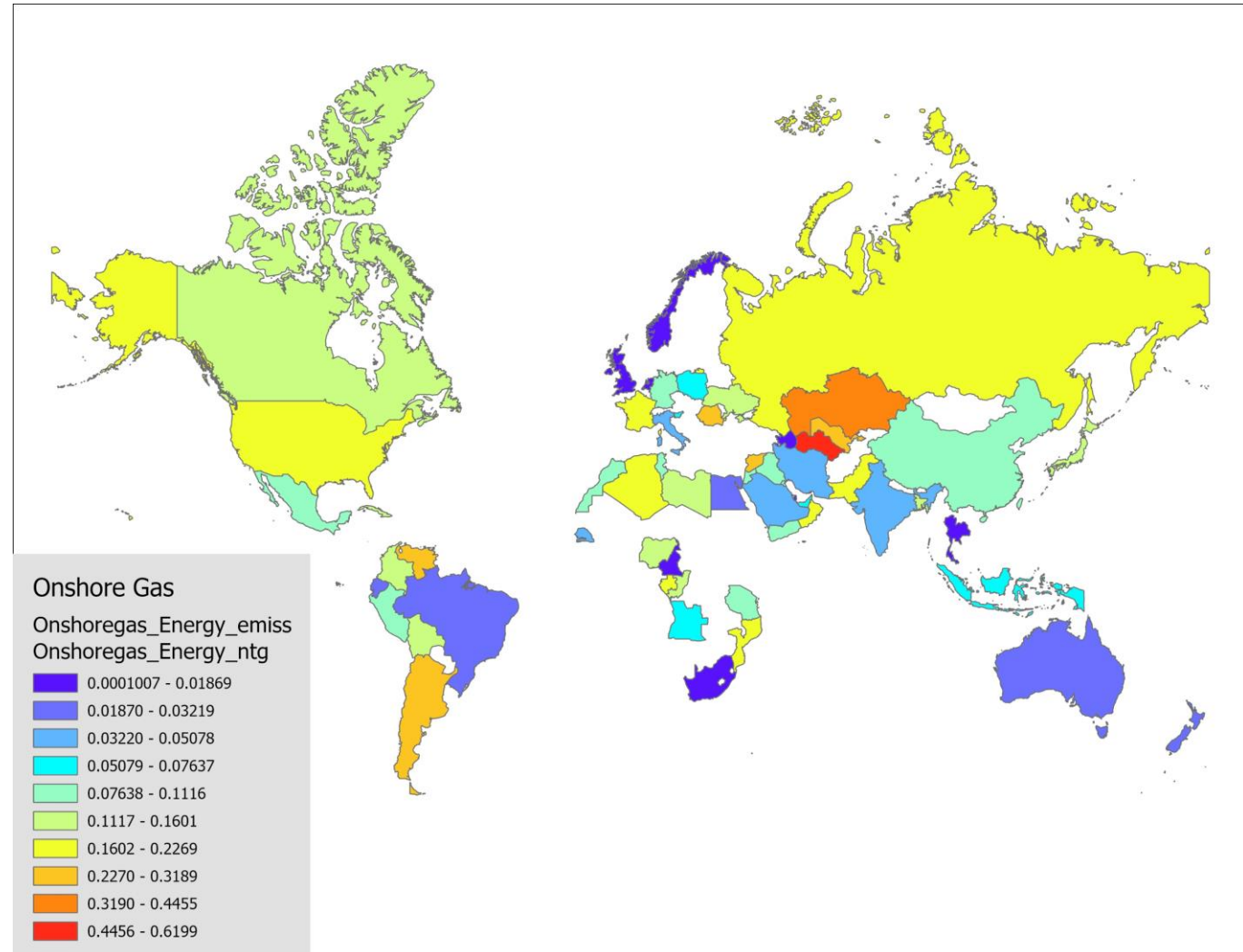
# Gas Emissions (Offshore Production)

- Ecuador appears to have the highest emissions per gas production, and probably has all of their gas production offshore
- Higher per NTG countries seem have most their gas production offshore
  - Iran and Qatar have world's largest gas field offshore([https://en.wikipedia.org/wiki/South\\_Pars/North\\_Dome\\_Gas-Condensate\\_field#:~:text=The%20South%20Pars%2FNorth%20Dome,shared%20between%20Iran%20and%20Qatar.](https://en.wikipedia.org/wiki/South_Pars/North_Dome_Gas-Condensate_field#:~:text=The%20South%20Pars%2FNorth%20Dome,shared%20between%20Iran%20and%20Qatar.))



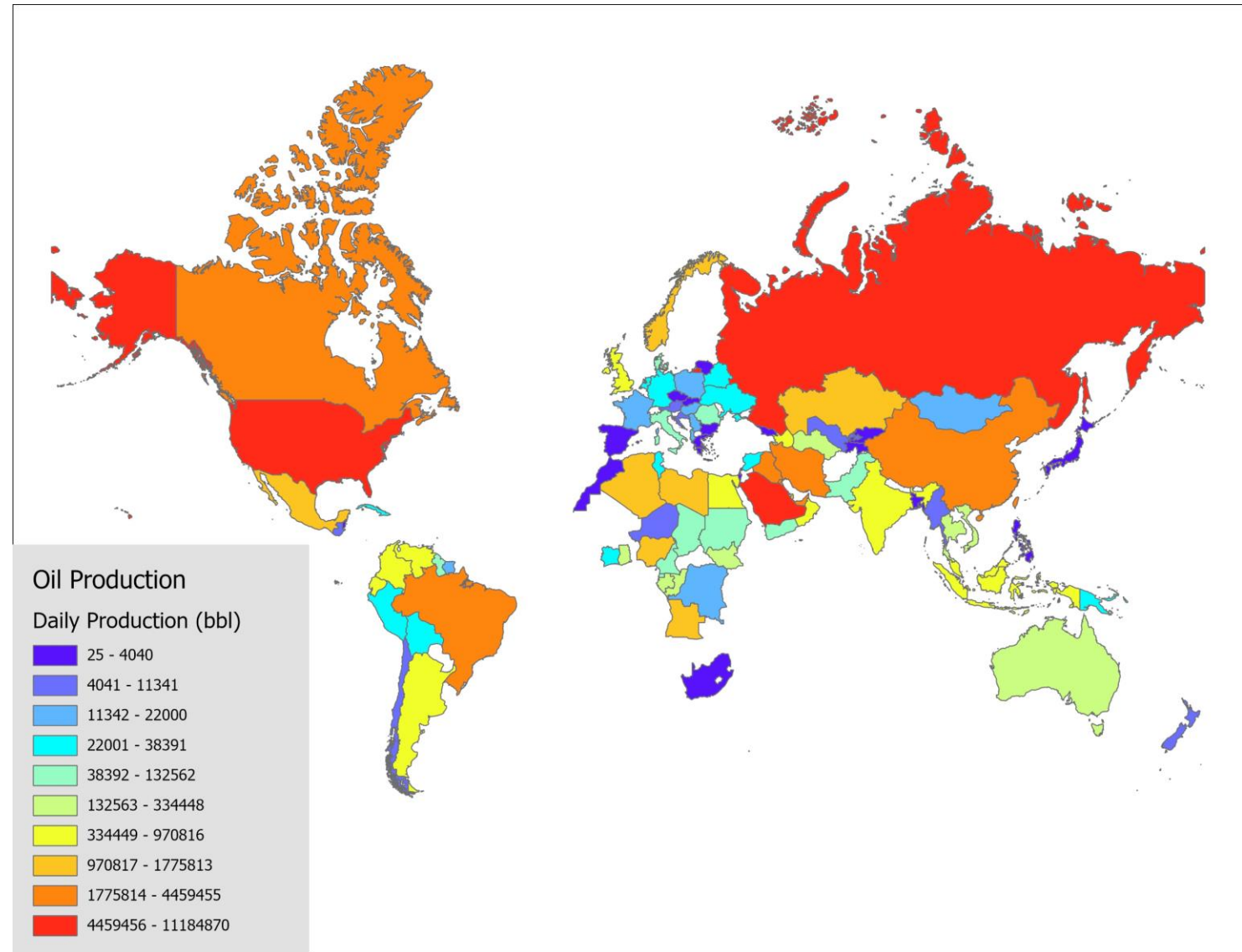
# Gas Emissions (Onshore Production)

- Norway still has low emissions per production of gas, despite its relatively high production
  - Lines up with Norway's strongly green ideology
- Turkmenistan has an extremely high emission rate per production
  - They have the 'Door to Hell', which is basically a giant hole of burning gas, could contribute a large part, but might not be counted since it isn't really 'production'.
- Kazakhstan has large emission per production, could be worse than shown since it appears to have sizable offshore production as shown in previous image
- Lower income countries appear to have higher emissions rate per production



# Oil Production

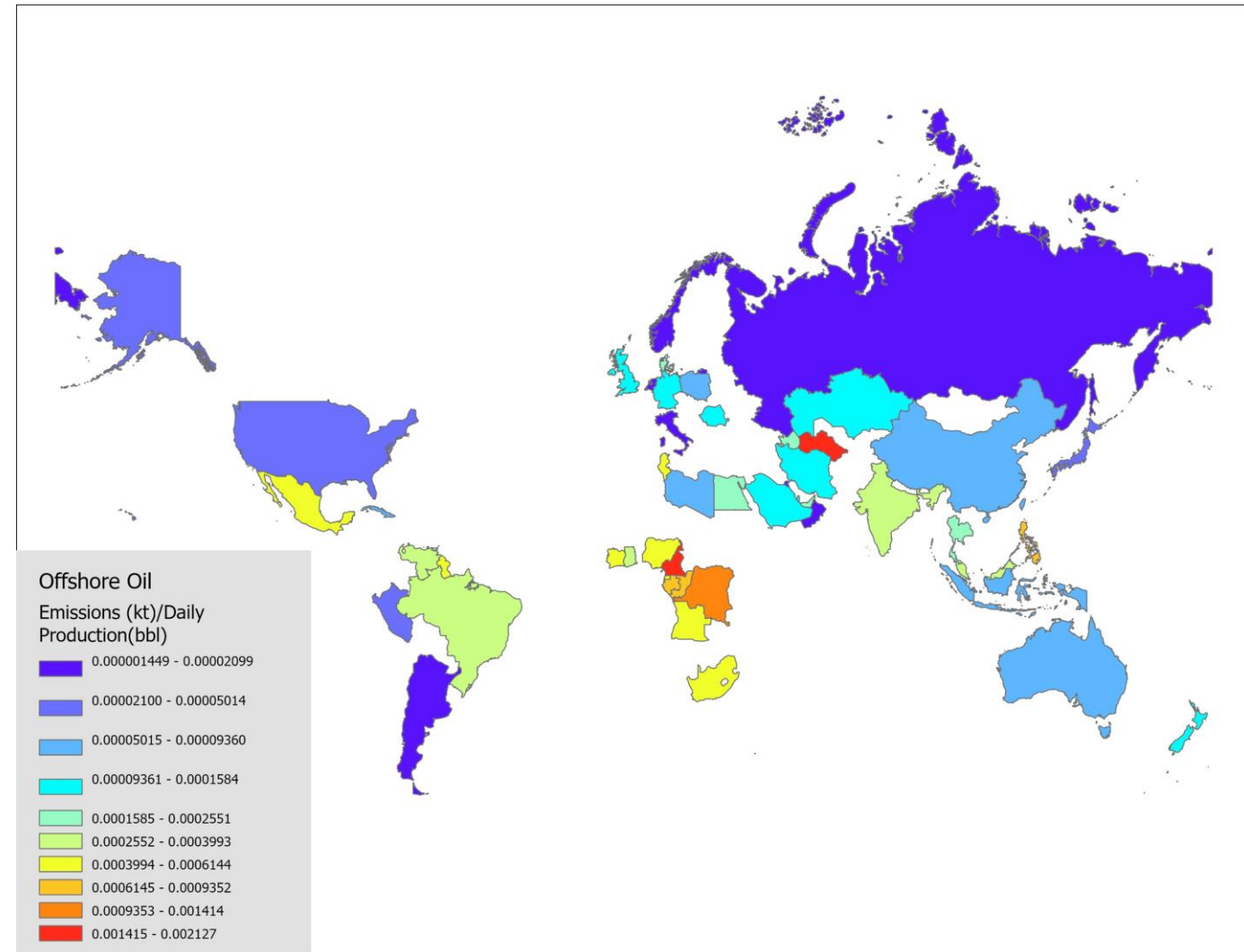
- Like natural gas, doesn't distinguish between offshore and onshore production





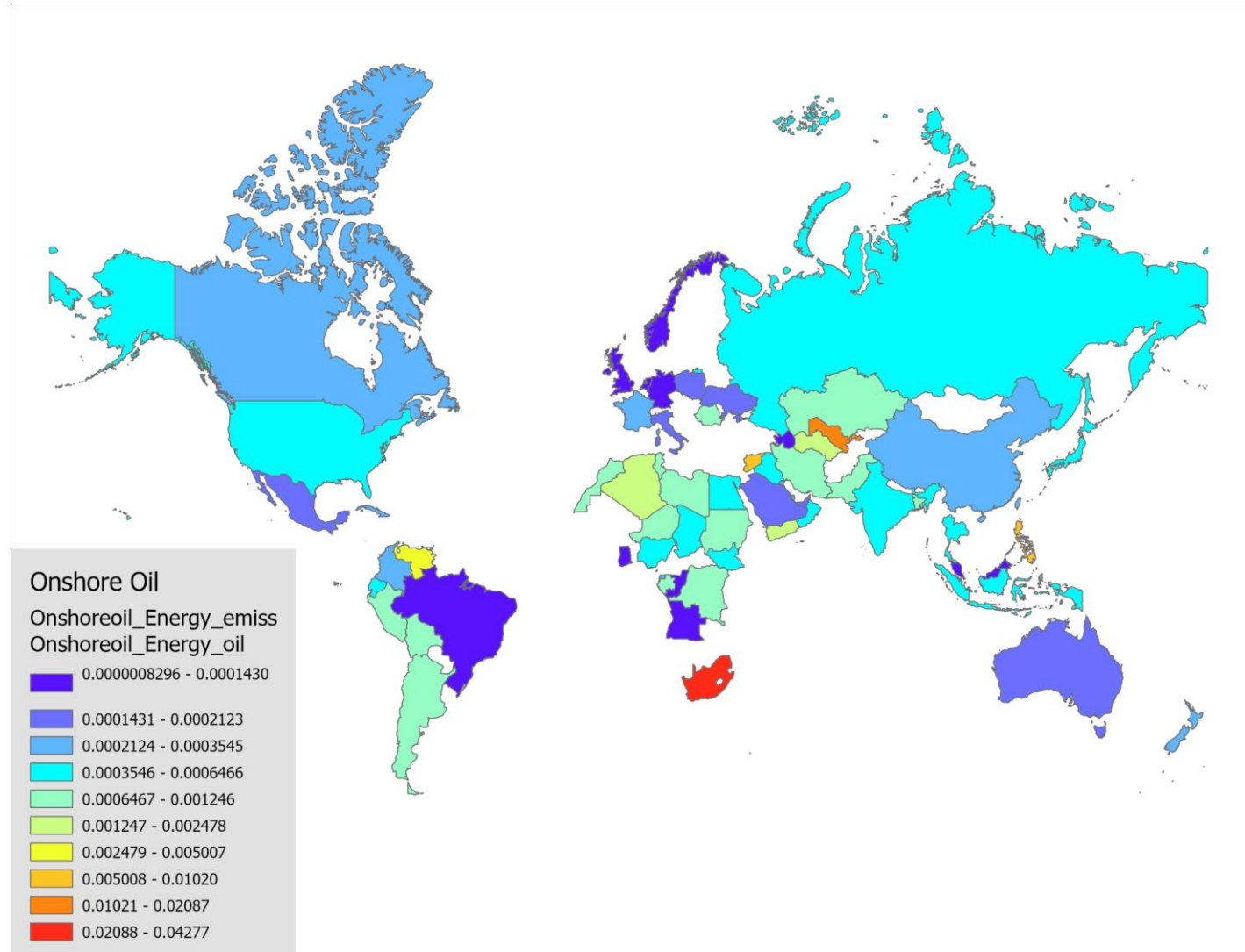
# Oil Emissions (Offshore Production)

- Turkmenistan extreme methane emitter in offshore production like onshore natural gas
- Cameroon also extreme emitter from offshore production
- African countries appear to have larger emissions per production



# Oil Emissions (Onshore Production)

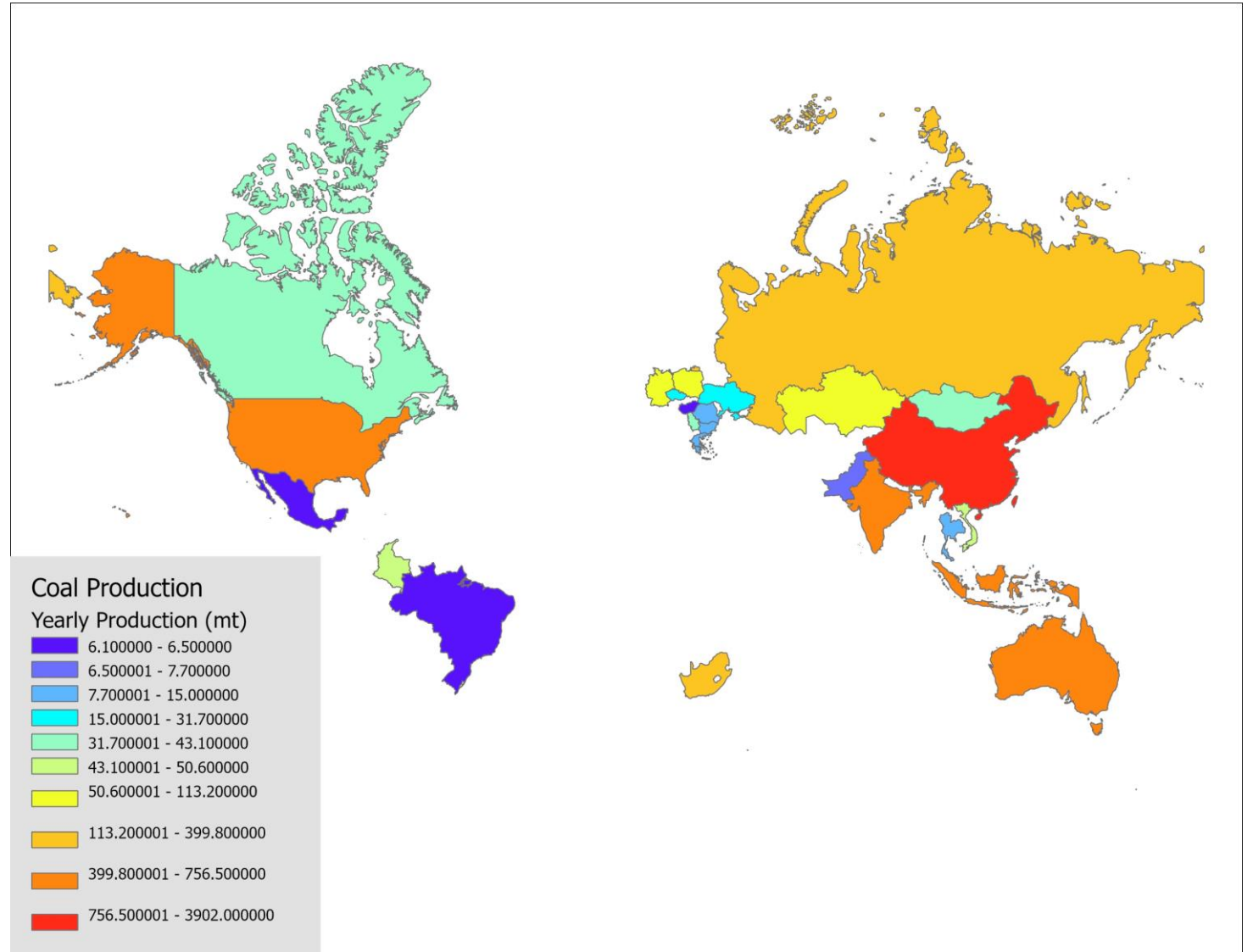
- South Africa worst emitter, however it has extremely low production, therefore skewing the color values.
- Venezuela has relatively high emissions in both oil and gas and both onshore and offshore.
  - Has been reported that Venezuela faces deteriorating facilities due to corruption and negligence.
- Reminder that its emissions are divided by production from both onshore and offshore combined





# Coal Production

- China produces by \*far\* the most coal



## Sources:

- [illegible]





