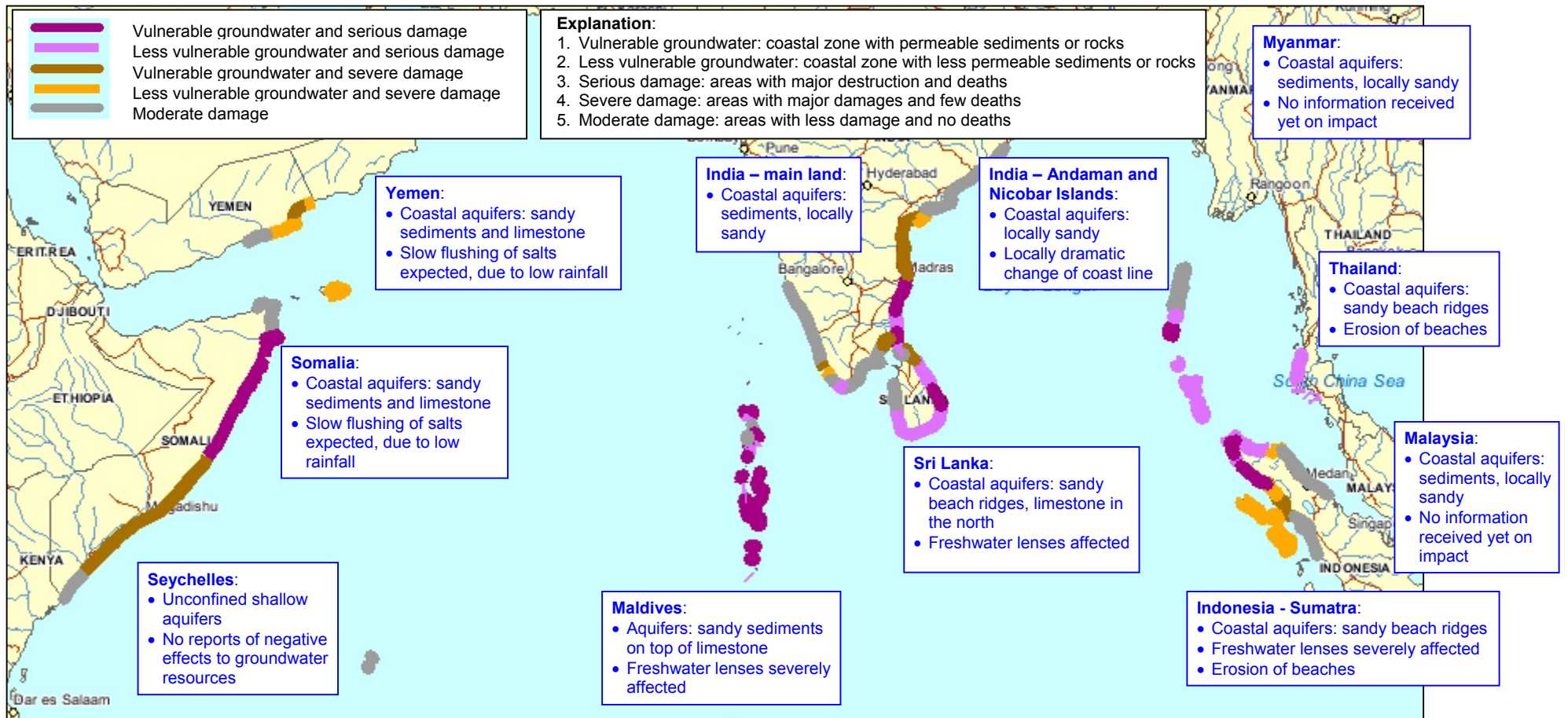


Tsunami: impact on groundwater conditions



Impact on groundwater conditions:

- Wells destroyed by the wave force or contaminated by saline water or other pollutants
- Intrusion of saline water during the flooding
- Intrusion of salts from saline ponds or leached from the soil after the flooding
- Pollution of groundwater by spreading of wastes, sewerage, chemicals, etc.
- Inland shift of freshwater/saltwater interface due to shoreline retreat
- Freshwater lenses reduced in size by the pressure of the wave

This indicative map shows the coastal areas with damage by the tsunami, combined with the vulnerability for pollution of groundwater by intrusion of saline water or other pollutants. The vulnerability is based on an estimate of the permeability of the sediments and rocks in the coastal zone. The map does not show the presence of actual groundwater pollution, because this information is not available everywhere and can not be presented at this scale also. The map is therefore indicative and needs updating once actual information on the groundwater situation becomes available.

The information on the geology was obtained from regional geological maps (see country reports).
The information on the damaged areas was obtained from the Internet (www.reliefweb.int and other links).



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