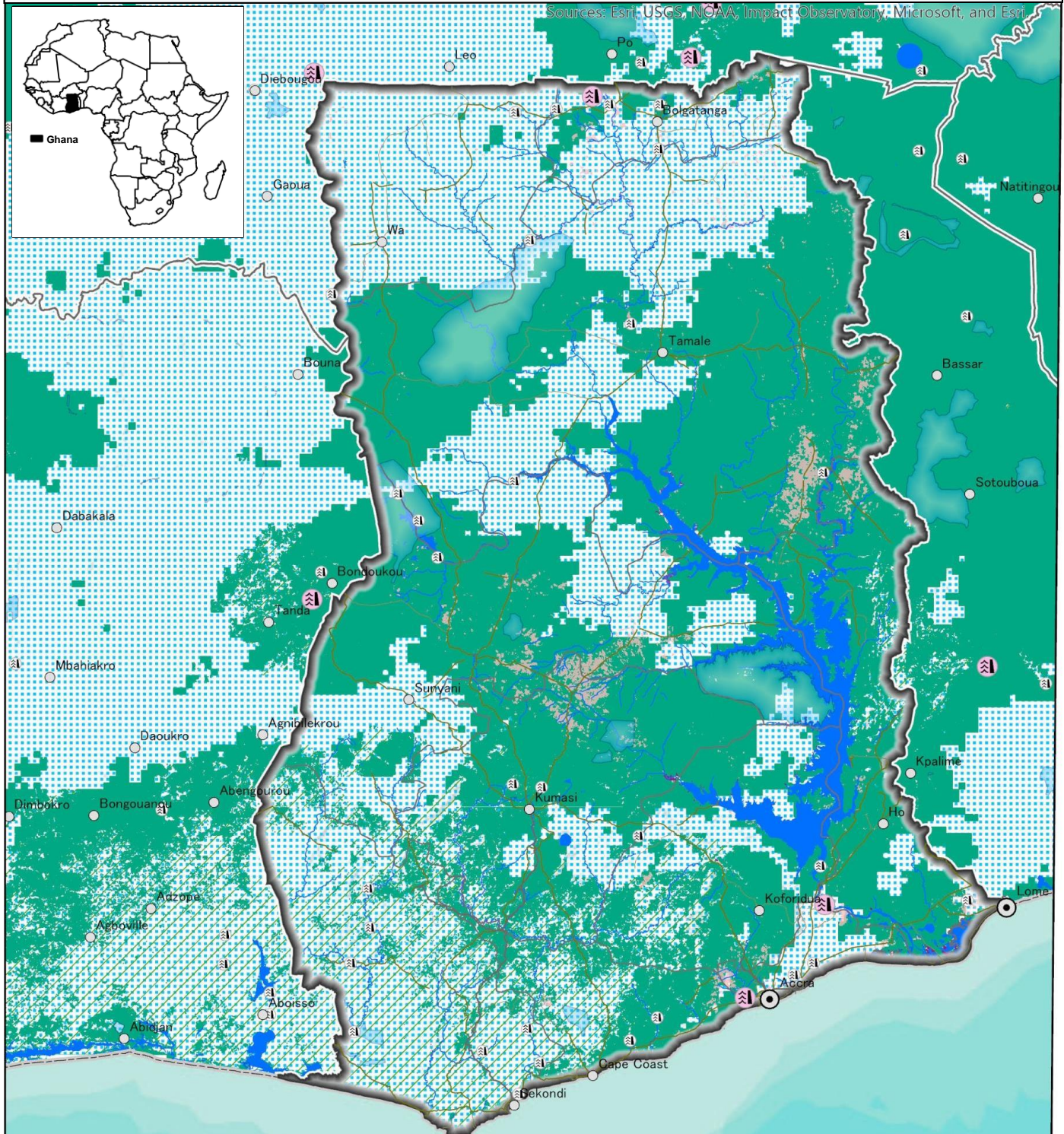


# Map of suitable areas for cultivation of upland rice (NERICA) in Republic of Ghana

Rainy year 2010 : 1st rainy season sowing

Sources: Esri, USGS, NOAA, Impact Observatory, Microsoft, and Esri



### LEGEND

- |  |   |   |   |
|--|---|---|---|
| Suitable for rain-fed cultivation<br>Drought risk: Low<br>Soil pH: Good<br>(Rainfall: > 25mm/pentad,<br>pH: 5.5-7.0)     | Not suitable for rain-fed cultivation<br>(Rainfall: < 15mm/pentad)  | Poor growth in vegetative growth risk: Moderate or higher<br>(Avg. Max. temp * 1: > 35°C in 0-55 days of growing stage)         | River, Lake   |
| Suitable for rain-fed cultivation<br>Drought risk: Low<br>Soil pH: Adequate<br>(Rainfall: > 25mm/pentad,<br>pH: 4.5-5.5) | Heat-induced spikelet sterility risk: Moderate or higher<br>(Avg. Max. temp * 1: > 35°C in 55-75 days of growing stage) | Risk of temperature damage during ripening: Moderate or higher<br>(Avg. temp: < 20°C or > 36°C in 76-100 days of growing stage) | Capital, major city   |
| Possible for rain-fed cultivation<br>Drought risk: Moderate or higher<br>(Rainfall: 15-25mm/pentad)                      | Cool-injury inducing spikelet sterility risk: Moderate or higher<br>(Avg. temp: < 22°C in 55-75 days of growing stage)  | Nature conservation areas, etc. * 2   | Main road   |
|  |   | National border, administrative boundary  | Dam (Irrigation use) * 3<br>Dam (Non-irrigation use)                                  |
|  |   |   | Existing farmland (field, etc.) * 4<br>Existing farmland (wetland, paddy field, etc.) |

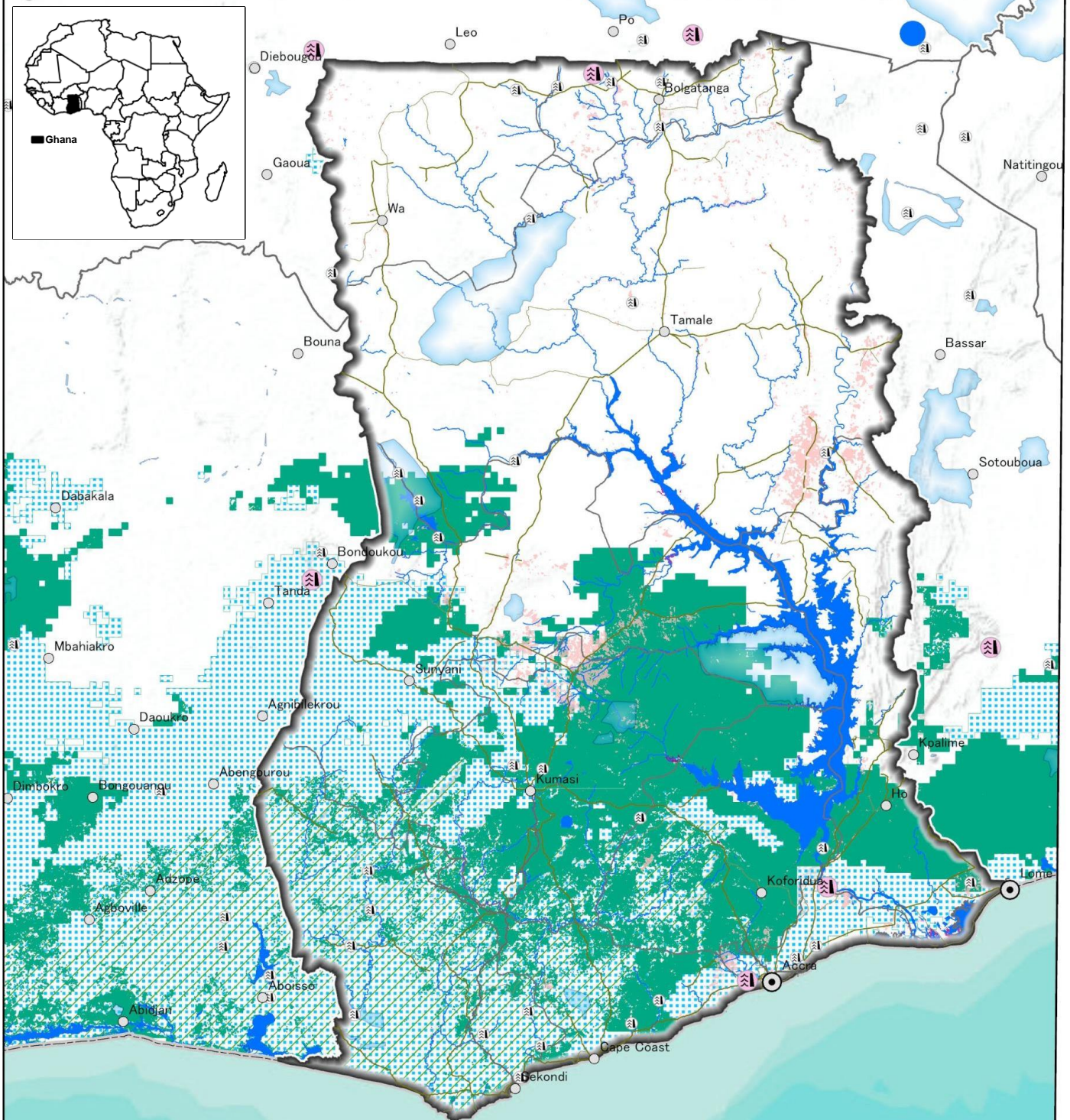
\*1: Pentad average of daily maximum temperature.  
\*2: IUCN management Category (Ia, Ib, II, III, IV), World Conservation Monitoring Centre.  
\*3: Geo-reference database on dams in Africa, FAO AQUASTA.  
\*4: Sentinel-2 10m land cover time series of the world from 2017-2021, Impact Observatory, Microsoft, and Esri.





# Map of suitable areas for cultivation of upland rice (NERICA) in Ghana

## Rainy year 2010 : 2nd rainy season sowing



### LEGEND

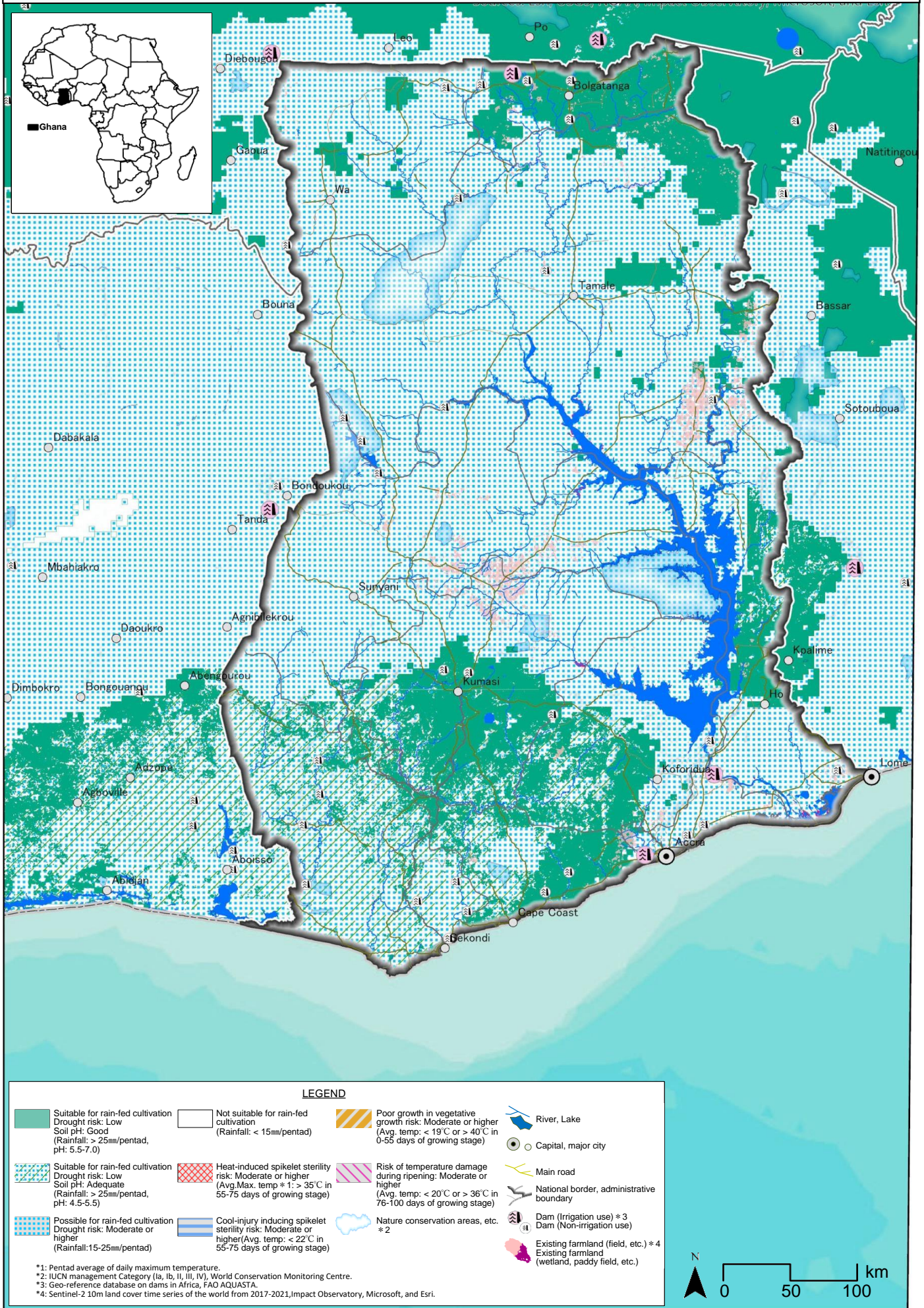
- |  |   |   |  |
|--|---|---|--|
| Suitable for rain-fed cultivation<br>Drought risk: Low<br>Soil pH: Good<br>(Rainfall: > 25mm/pentad,<br>pH: 5.5-7.0)     | Not suitable for rain-fed cultivation<br>(Rainfall: < 15mm/pentad)  | Poor growth in vegetative growth risk: Moderate or higher<br>(Avg. temp: < 19°C or > 40°C in 0-55 days of growing stage)        | River, Lake  |
| Suitable for rain-fed cultivation<br>Drought risk: Low<br>Soil pH: Adequate<br>(Rainfall: > 25mm/pentad,<br>pH: 4.5-5.5) | Heat-induced spikelet sterility risk: Moderate or higher<br>(Avg. Max. temp * 1: > 35°C in 55-75 days of growing stage) | Risk of temperature damage during ripening: Moderate or higher<br>(Avg. temp: < 20°C or > 36°C in 76-100 days of growing stage) | Capital, major city  |
| Possible for rain-fed cultivation<br>Drought risk: Moderate or higher<br>(Rainfall: 15-25mm/pentad)                      | Cool-injury inducing spikelet sterility risk: Moderate or higher<br>(Avg. temp: < 22°C in 55-75 days of growing stage)  | Nature conservation areas, etc. *2  | Main road  |
|  |   | National border, administrative boundary  | Dam (Irrigation use) *3<br>Dam (Non-irrigation use)                                  |
|  |   |   | Existing farmland (field, etc.) *4<br>Existing farmland (wetland, paddy field, etc.) |

\*1: Pentad average of daily maximum temperature.  
\*2: IUCN management Category (Ia, Ib, II, III, IV), World Conservation Monitoring Centre.  
\*3: Geo-reference database on dams in Africa, FAO AQUASTA.  
\*4: Sentinel-2 10m land cover time series of the world from 2017-2021, Impact Observatory, Microsoft, and Esri.





Map of suitable areas for cultivation of upland rice (NERICA) in Ghana  
Drought year 2015 : 1st rainy season sowing

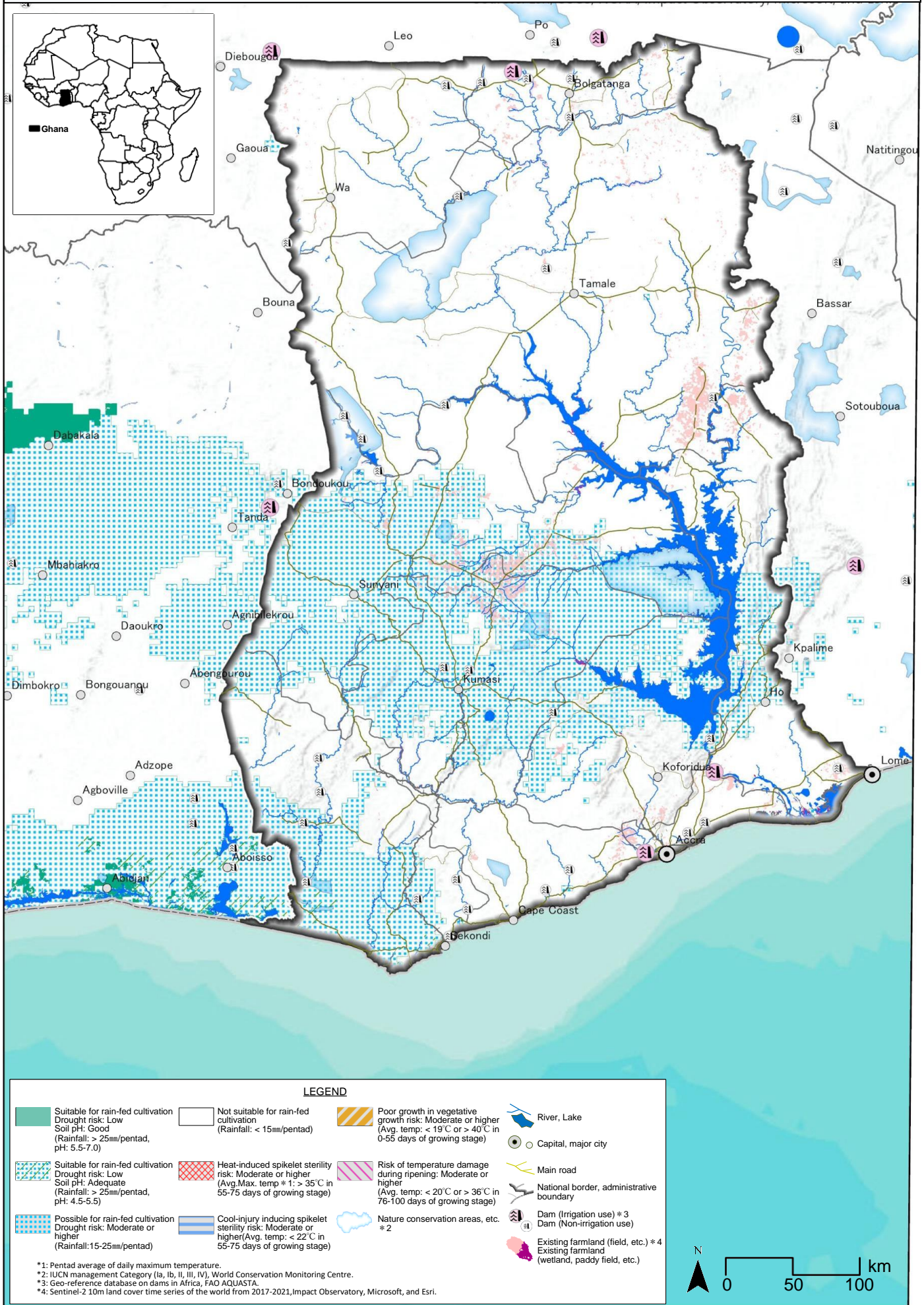


Source: Information collection survey for the expansion of the community-based smallholder irrigation (COBSI) in the Sub-Saharan Africa: final report; Tokyo: Japan International Cooperation Agency: Sanyu Consultants Inc., 2023.2



# Map of suitable areas for cultivation of upland rice (NERICA) in Ghana

## Drought year 2015 : 2nd rainy season sowing



Source: Information collection survey for the expansion of the community-based smallholder irrigation (COBSI) in the Sub-Saharan Africa: final report; Tokyo: Japan International Cooperation Agency: Sanyu Consultants Inc., 2023.2