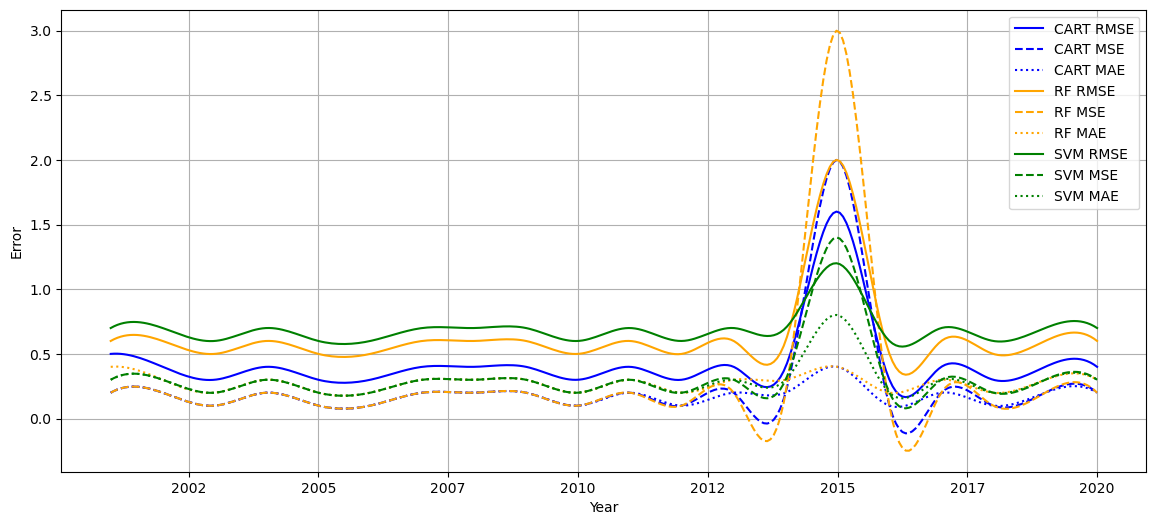
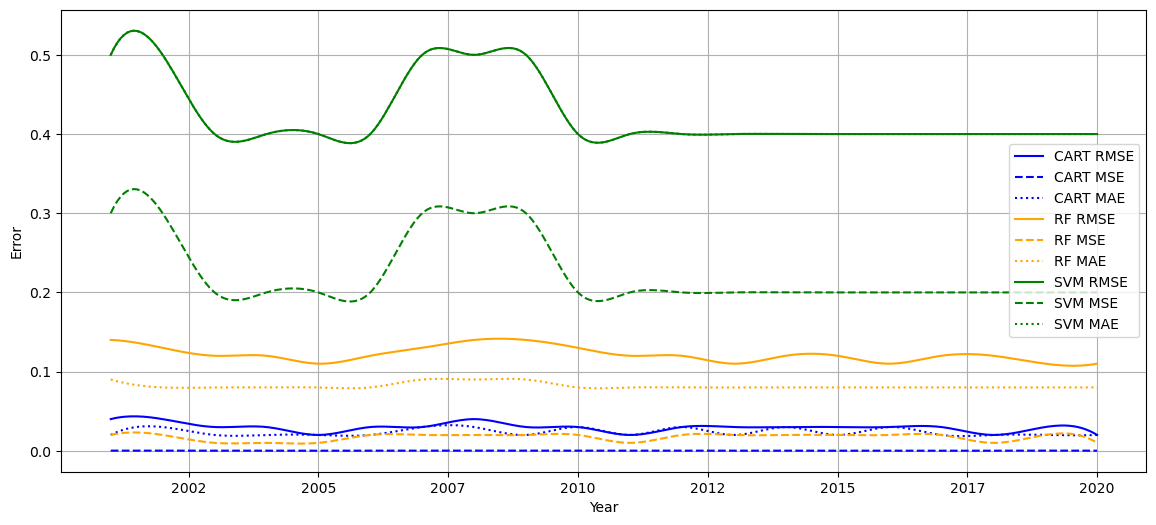
**Supplementary information/ index**

**Table S1.** Significant Drought Years, Affected Countries and Regions, and Impacts

|  |  |  |
| --- | --- | --- |
| Country/Region | Year | comment |
| North Africa |  |  |
| Sudan | 2019,2016 | Agricultural and socio-economic effects |
| Central Africa |  |  |
| Angola | 2012,2019 | Agricultural and socio-economic effects |
| Cameroon | 2011, 2010,2015 | Agricultural and socio-economic effects |
| Democratic Republic of the Congo | 2017 | Hydrological/hydropower, agricultural and socio-economic effects |
| West Africa |  |  |
| Benin | 2017 | Agricultural and socio-economic effects |
| Burkina Faso | 2016 | Hydrological/water supply, agricultural and socio-economic impacts. |
| Republic of Cabo Verde | 2017 | Agricultural and socio-economic effects |
| Cote d’Ivoire | 2005 | Hydrological/water supply, agricultural and socio-economic impacts. |
| Gambia | 2012 | Agricultural and socio-economic effects |
| Ghana | 2006 | Hydrological /hydropower and social impacts |
| Guinea | 2016 | Hydrological/river patterns, agricultural and socio-economic impacts. |
| Guinea Bissau | 2002, 2004 | Agricultural and socio-economic effects |
| Liberia | 2019 | Agricultural and socio-economic effects |
| Mali | 2015 | Agricultural and socio-economic effects |
| Mauritania | 2011,2012,2017 | Agricultural and socio-economic effects |
| Niger | 2010 | Agricultural and socio-economic effects |
| Nigeria | 2010 | Agricultural and socio-economic effects |
| Senegal | 2018 | Agricultural and socio-economic effects |
| East Africa |  |  |
| Burundi | 2004 | Agricultural and socio-economic effects |
| Djibouti | 2014 | Agricultural and socio-economic effects |
| Eritrea | 2004 | Agricultural and socio-economic effects |
| Ethiopia | 2017 | Agricultural and socio-economic effects |
| Kenya | 2010 | Hydrological/hydropower, agricultural and socio-economic impacts. |
| Madagascar | 2016,2019 | Agricultural and socio-economic effects |
| Mozambique | 2010,2019 | Agricultural and socio-economic effects |
| Rwanda | 2016 | Agricultural and socio-economic effects |
| Somalia | 2010,2011,2017 | Agricultural and socio-economic effects |
| Tanzania | 2011, 2017 | Hydrological/water supply, agricultural and socio-economic impact. |
| Uganda | 2010 | Agricultural and socio-economic effects |
| Southern Africa |  |  |
| Botswana | 2015 | Hydrological/water supply, agricultural and socio-economic impact. |
| Lesotho | 2019,2020 | Agricultural and socio-economic effects |
| Malawi | 2016, 2017 | Agricultural and socio-economic effects |
| Mauritius | 2011 | Agricultural and socio-economic effects |
| Namibia | 2013,2019 | Agricultural and socio-economic effects |
| South Africa | 2015,2018 | Hydrological/water supply and social impacts. |
| Swaziland | 2015,2016,2017 | Agricultural and socio-economic effects |
| Zambia | 2019 | Hydrological/water supply, agricultural and socio-economic impacts. |
| Zimbabwe | 2019 | Agricultural and socio-economic impacts. |



**Figure S1.** Meteorological drought-Training errors



**Figure S2.** Agricultural drought-Training errors



**Figure S3.** Hydrological drought-Training errors.