Climate Change Profile
Burundi
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Introduction

This climate change profile is designed to help integrate climate actions into development activities. It complements the publication 'Climate-smart = Future-Proof! – Guidelines for Integrating climate-smart actions into development policies and activities' and provides answers to some of the questions that are raised in the step-by-step approach in these guidelines.

The current and expected effects of climate change differ locally, nationally and regionally. The impacts of climate change effects on livelihoods, food and water security, ecosystems, infrastructure etc. differ per country and region as well as community and individual, with gender a particularly important vulnerability factor. This profile aims to give insight in the climate change effects and impacts in Burundi, with particular attention for food security and water. It also sheds light on the policies, priorities and commitments of the government in responding to climate change and important climate-relevant activities that are being implemented, including activities being internationally financed.

Summary

Burundi is a small, landlocked country with abundant natural resources, especially minerals and hydropower potential, but years of conflict have severely damaged its economic structure and contributed to widespread poverty.\(^1\) Agriculture (mainly rain-fed) is its primary economic sector, employing 90% of its inhabitants.\(^2\) The country is densely populated, has a high population growth, and yet only 36% of the country is arable.\(^3\) To realise its food security objectives, it must boost its agricultural productivity, which is the lowest in the region. The projected impact of climate change will further threaten food security and water availability. The risks are highest in the north and northeast of the country which are already vulnerable to rainfall shortages and in some zones soil erosion, and in the western Imbo plains which experience both rainfall shortages and floods (see Map 1). Food security risks are highest during the ‘long dry season’, which has increasingly extended during past decades (May-September) and will be getting drier and hotter due to climate change. Extreme floods and droughts are estimated to result in a yield decline of 5-25% in coming decades\(^4\) and reduce long-term growth by 2.4% of GDP per year\(^5\).

Overall ranking

Globally Burundi has the lowest per capita GHG emissions, ranking i88 out of i88 countries and contributing only 0.01% to global emissions. However, it is highly vulnerable to global climate change. Burundi ranks 171 out of 181 countries in the ND-GAIN index\(^6\) (2016) for climate vulnerability. It is the 14th most vulnerable country and is the 17th least ready country – meaning that it is extremely vulnerable to, yet very unready to combat climate change effects. Vulnerability measures the country’s exposure, sensitivity, and ability to cope with the negative effects of climate change by considering vulnerability in six life-supporting sectors: food, water, ecosystem service, health, human habitat and infrastructure. Readiness measures a country’s ability to leverage investments and convert them to adaptation actions by considering economic, governance and social readiness.

Biophysical vulnerability

Current climate. Annual rainfall and average temperature differ per location and per season. Lowlands of the Imbo zone and the Ruzizi Plain in the west and northeast receive least rainfall (below 900 mm/year), while Imbo is also Burundi’s warmest zone (23-25 ºC). Highlands in the Congo-Nile watershed receive most rainfall (over 1600 mm/year) and are much colder (16-18 ºC). Total rainfall and average temperature in the other parts of the country are between these extremes. Four seasons are distinguished: • the long-wet season (February–May, 300-700 mm); • the long dry season (June–August, below 50 mm); • the short-wet season (September–December, 300-750 mm); • the short dry season (mid-January to mid-February, 300-600 mm; lower rainfall in the west and northeast)\(^7\). See Map 2 for information on the length of the seasons per area.

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1. NABC (2013): Burundi Business Fact Sheet
2. World Bank Climate Change Knowledge Portal, Burundi
4. Baramburiye et al. (2013)
5. DFID (2011): The economic impacts of climate change in Burundi.
Burundi has a history of extreme events that are considered climate-related. Historically, various zones experienced frequent famines and destructive hailstorms. The regions that are struck hardest by such events are (see Map 1):
- BI01 (Buragane): droughts and erosion
- BI03 (eastern depressions) north, BI04 (northern depressions) and BI09 (dry eastern plateaux) north:
  - frequent and severe droughts and famines (several per decade) – in BI04 combined with regression of lake levels;
  - since 1999, frequent violent rains, causing erosion, combined with thunder and lightning.
- BI07 (Imbo plains) north:
  - frequent excessive rains, causing floods and occasionally significant increases in the water level of Lake Tanganyika;
  - frequent rainfall shortages.

Nationwide, Burundi has alternatively experienced severe droughts, resulting in crop failure and a 35% livestock mortality (1998-2009) and severe floods, with similar effects (2006-2007). Such events have been estimated to result in a loss of 5-17% GDP per event11.

Current trends. Changes in the duration of wet and dry seasons have recently been observed. Total precipitation has declined, the long-wet season ends sooner (often in April) while the short-wet season starts later (in October)13. This means that the ‘long dry season’ is further prolonged and can now be considered to last from May to September. Moreover, an increase in average temperature of ca. 0.8ºC has been observed between 1930 and 200013. This intensification of dry and wet seasons results in more severe droughts and floods.

Climate change. Projections for future changes in temperature due to climate change estimate an increase of 0.4ºC per decade13 and a 1.9ºC increase by 205018. Mean annual rainfall is projected to increase over Burundi by mid and late 21st century. By 2050, rainfall patterns are likely to be altered such that there will essentially be two six-month seasons, one rainy season lasting from November to April and a dry season covering May to October18.

Projections suggest the following17:
- A reduction in precipitation is expected for May (end of rainy season) and October (beginning of rainy season).
- Most models project there will be a slight increase in days with ‘heavy’ rain by 2100.
- An increase of drought is expected in the northern part of the country that will cause a decrease in water levels in the northern lakes.
- Floods are expected to increase in frequency and magnitude in the low-lying areas (e.g. Imbo floodplain).
- Models project an increase in the number of ‘hot’ days per year for 2046-2065 and 2081-2100 under the low and high emissions scenarios.
- Droughts are expected to become more intense and more frequent, occurring between 40 and 60% of the time.

These projections imply that the long dry season is not only being prolonged as a consequence of climate change, but also receives less rainfall and faces the most significant temperature increase resulting in acute problems for food security and water availability. In addition to losses in agricultural production resulting from the absence of the short rainy season and harnessing of wetlands during the long dry season, pastoral vegetation, the quality and quantity of fodder, the duration of the season of vegetable growth, the animal productivity and water quality are also likely to be affected as climate change progresses.

The northern and eastern provinces, that already suffer from frequent droughts, are likely to see a decrease in annual precipitation, and the projected increases in total rainfall (of 200 mm annually) or in rainfall intensity are not only likely as noted above to cause floods in the western Imbo plains but also erosion in the southern zone and central plateau18. See also the attached maps for information on changes in precipitation (Map 3), erosion vulnerability (Map 4) and drought vulnerability (Map 5).

Changes in rainfall and temperature will influence both food security and water availability:
- Food security in Burundi is already extremely fragile: 61% of the country’s households risk food insecurity at some point during the year. Heavier rainfall is expected to result in floods that damage crops, soil and infrastructure, while it can also increase the presence of pests or diseases that affect food crops and livestock. Increased temperatures will result in bush fires and increased water consumption/requirements; the latter especially since a temperature increase in Burundi’s tropical humid climate will result in high evapotranspiration rates19. Simultaneously, prolonged

11 FEWS NET and USAID (2009)
12 Baramburiye et al. (2013)
13 Baramburiye et al. (2013)
14 DFID (2009)
15 Ministry for Land Management, Tourism and Environment (2007), in Baramburiye et al. (2013)
19 DFID (2011); FEWS NET and USAID (2009)
20 Baramburiye et al. (2013)
periods of drought will lead to lower water levels and therefore decreased crop and livestock productivity, as well as increased livestock mortality. Although Nile and Congo hydrological basins run through the country, water availability for agricultural activities is vulnerable due to climatic conditions (especially space-time distribution of rainfall) and will be influenced by the decrease of Lake Tanganyika’s water level, which is already resulting in desertification of the area and salinization problems in the Ruzizi Plain. Water quality of river and lake systems is decreasing due to increased temperature and sediment load. In the long term, rainfall peaks may result in an increase of ca. 40% in the average flows of the Ruzizi and Ruvubu rivers between 2000 and 2050. This poses challenges both in terms of protecting the country against extreme rainfall events and in using such peak rainfall to compensate for decreased water availability elsewhere in the country.

**Socio-economic vulnerability**

<table>
<thead>
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<th>Key facts:</th>
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<tr>
<td>GDP (PPP) per capita (2016)</td>
<td>USD 778</td>
</tr>
<tr>
<td>Population (July 2017)</td>
<td>10,864,245</td>
</tr>
<tr>
<td>Projected population (2050)</td>
<td>25,762,000</td>
</tr>
<tr>
<td>Population density per km2 (2016)</td>
<td>410</td>
</tr>
<tr>
<td>Human Development Index (2016)</td>
<td>184 out of 188 countries</td>
</tr>
<tr>
<td>Corruption Perceptions Index (2016)</td>
<td>159 out of 176 countries</td>
</tr>
<tr>
<td>Gender Inequality Index (2016)</td>
<td>108 out of 188 countries</td>
</tr>
<tr>
<td>Adult literacy (2015)</td>
<td>85.6% (male 88.2%; female 83.1%)</td>
</tr>
</tbody>
</table>

As a result of its economy, poverty, high population growth, high population density, conflict, gender inequalities and relatively low levels of education, Burundi is very vulnerable to the biophysical impact of climate change. The country and its people are strongly dependent on climate sensitive economic sectors such as agriculture and animal husbandry. Agriculture contributes 39.2% to the country’s GDP, occupying almost 94% of the working population. Agriculture exports (coffee, tea, cotton) provide all but a small percentage of export revenues. The transport system in Burundi is poor, due to a limited feeder road network, hilly terrains and no direct access to the sea. Only an estimated 5% of population have access to electricity. Since its political crisis is 2015, an estimated 500,000 people have fled Burundi with tens of thousands internally displaced by conflict and dependent on humanitarian assistance.

Burundi’s annual population growth, 3.1%, is among the highest in the world. The country’s population is projected to more than double by 2050. With an average density of more than 400 people per square kilometre, Burundi is the second most densely populated country in Sub-Saharan Africa. Population densities vary across the country.

In recent years prior to the current conflict and instability there has been a surge in the rural–urban exodus in response to widespread poverty in rural areas. The eastern part of the country has the lowest density, while population densities of 500–2,000 inhabitants per square kilometre occur in the capital, Bujumbura, and the main cities, such as Ngozi and Kayanza in the north, Gitega in the midlands, and Rumonge in the south.

Ranking in the bottom five countries of the Human Development Index, poverty is widespread, with 90-95% of the population living on less than USD 2 per day, particularly in rural areas. Burundi is considered the world’s hungriest country with almost 40% of its country in need of food. Most rural households have less than 0.5 hectares of farmland, due to the combination of high population growth with a land tenure system that favours fragmentation of plots among siblings. Rural households cope by expanding into environmental protection areas, cultivating on steep slopes without recourse to sustainable practices for highlands, and draining wetlands for...
agricultural use. This further worsens land degradation and soil erosion in mountainous areas and results in food shortage, unemployment and social conflict. This deepens instability by disrupting production systems and marketing channels by displacing the local farm population. When coupled with intermittent droughts, food shortages deepen and urban migration increases. Although this situation is present throughout Burundi, it is profound in Cibitoke, Bubanza and Bumbura Rural provinces.

Under current climate change trends there will be a significant impact on some of the principal food and commercial crops in Burundi. The main staple crops are bananas, cassava, sweet potatoes, and beans. Maize (a secondary staple crop), beans and sweet potato yields are expected to decrease gradually, with maize yield decreases of 5-25% predicted for the next decades. Rising temperatures and erratic or lower rainfall will have a negative impact on Burundi’s primary exports of coffee and tea, which account for 90% of foreign exchange earnings.

In Burundi, women make up 56% of the agricultural workforce. Although rural women and men may play complementary roles in farming activities, women tend to play a greater role in natural resource management and ensuring nutrition in the household. Responsibility for climate change adaptation is likely to fall on their shoulders, including finding alternative ways to feed and provide water for their families.

Climate-smart agriculture has the potential to both increase production and build resilience for climate change. However, there are significant challenges including political instability, the increasing fragmentation of farms, uncertainty in land tenure (especially concerning women’s access to land), and access to information, credit, inputs, and markets.

National government strategies and policies

Burundi has been characterised as one of the countries in the region that are ‘less actively engaged’ in climate change adaptation (in comparison with highly engaged countries such as Ethiopia, Rwanda, Kenya and Uganda). This is the outcome of national priorities and national capacities and more recently the political crisis which has also resulted in a decline of opportunities for financial and technical support. Nevertheless, Burundi has prepared national strategies and polices for climate change and participated in the UNFCCC conferences and agreements.

Burundi has ratified the UN Convention on Biological Diversity (CBD) for which it elaborated a Biological Diversity National Strategy and Plan of Action, the Convention to Combat Desertification (CCD) for which it elaborated a National Plan of Action to Combat Desertification, the Framework Convention on Climate Change (UNFCCC) and the Kyoto Protocol. Burundi signed the Paris Agreement in April 2016 and ratified the agreement in January 2018 with it entering into force in February 2018 (see Nationally Determined Contributions below). It has prepared two National Communications for the UNFCCC and a National Action Plan for Adaptation (NAPA).

In the NAPA (2007), priority areas are:

- reinforce the management of existing protected areas and include in protected areas the natural ecosystems identified as being threatened and vulnerable;
- safeguard existing woodlots and reforest the stripped areas;
- install mechanisms to control erosion in sensitive areas;
- control the river dynamics of watercourses and torrents in Mumirwa, including the city of Bujumbura;
- popularise short cycle and dryness resistant food crops;
- popularise rainwater harvesting techniques for agricultural or domestic use;
- identify and popularise improved techniques for use of wood and new renewable energies;
- increase the number of hydropower micro stations;
- establish and protect strategic buffer zones in Lake Tanganyika floodplain and around the lakes of Bugesera;
- identify and popularise the breeding of species adapted to local climate conditions;
- popularise zero-grazing techniques;
- identify and popularise dryness resistant forest species;
- train and inform the decision makers and other partners, including the local communities on the methods of adaptation to climate variability;
- improve seasonal early warning climate forecasts.

However, only one of the priority areas has been implemented (improve seasonal early warning climate forecasts). All others remain unfunded so far, leaving a number of vulnerable sectors without action on the identified priorities (including agriculture, freshwater and forestry).
In 2012, Burundi finalised its National Climate Change Strategy and Action Plan. Early 2015, Burundi published a report on its progress on activities under the Hyogo framework for action. These primarily concern disaster risk reduction, but also include climate change relevant activities. The report concluded that Burundi was at that time relatively well on track in reaching its objectives, because:

- early warning systems are in place and information on extreme climate events is available;
- strategies and policies concerning climate change are in place;
- disaster risk reduction is an integral objective for climate change adaptation policies;
- potential risk scenarios are developed taking into account climate change projections.

Three areas were identified as priorities for the future:

- integrate disaster risk reduction into policies and plans for sustainable development;
- develop and strengthen institutions, mechanisms and capacities to build resilience to hazards;
- systematically consider risk reduction in emergency preparedness/response/recovery activities.

The government of Burundi has drafted a roadmap to move Burundi’s NAP process forward. Formal support to support the NAP process was requested by UNDP in March 2016.

Nationally Determined Contributions (NDC)

Burundi submitted its First NDC in January 2018 to the UNFCCC. In its NDC Burundi presents itself as being vulnerable to climate change. It projects that climate change affects every economic sector in the country, but will particularly impact agriculture and hinder the development of hydropower.

The NDC details adaptation and mitigation measures, with a total cost of over USD 1.493 billion, of which all but USD 47 million is allocated to mitigation measures (development of hydro-electricity, solar, reforestation programs, see below).

Mitigation. Burundi provides a business-as-usual scenario and two scenarios for reduction of its emissions by 2030: a 3% unconditional objective (through its own initiatives) and a 20% conditional objective (implementation will depend on the financial support of the international community). The unconditional (national) objective of 3% reduction is to be achieved by: (i) a 15-year reforestation program (annual reforestation rate of 4,000 hectares) under the National Reforestation Programme and (ii) increasing electrification rate by 35% by building three hydroelectric power plants. The conditional objective of 20% is to be realized by additional financing of (i) forestry schemes – aiming to reforest 8,000 hectares per year, and (ii) agricultural development – mainly replacement of mineral fertilizers with organic fertilizer to lower emissions from agriculture.

Adaptation. To successfully adapt to climate change, Burundi’s NDC proposes to prioritise actions that reflect the priorities identified in its National Strategy and Action Plan on Climate Change (2012):

- Integrated water resources management by a small hydrological unit
- Integrated management of climate risk and forecasts over time (by means of probabilities and forward-looking studies) so as to be able to take action in advance
- Protection of aquatic and land-based ecosystems
- Coaching of the population to develop their resilience to climate change
- Development of institutional and operational capacities to coordinate programmes that are resilient to climate change
- Research on the vulnerability and adaptation of socioeconomic sectors to climate change
- Establishment of functional monitoring and evaluation mechanisms for climate change, as well as knowledge management and information mechanisms
- Research and extension of drought-resistant forest species
- Promotion of climate-smart agriculture (agrometeorology)

Capacity-building, knowledge management and communication

- Enhancement of data and information management and distribution mechanisms
- Reinforcement of climate change impact tracking systems by means of observations and investigations
- Improvement of scientific and technological research on adapting to climate change, supported by climate observations
- Improvement of the legislative and regulatory framework for handling climate change as part of investment programmes and the promotion of public-private partnerships
- Strengthening of the information and data communication and exchange system
Burundi is a member country of the NDC-Partnership\(^5\), but a work plan for support activities has not been prepared. Burundi’s National Adaptation Plan is still under preparation\(^6\).

**Climate finance**

According to an ODI report (2014), Burundi is lagging behind its neighbouring countries in terms of finance approved from international climate funds. At the time of report no mitigation finance had been approved, with the amount approved for adaptation of approximately USD 12 or 14 million (according to different sources)\(^7\)\(^8\)\(^9\). Burundi has expressed interest in becoming one of the countries in the REDD project of the Forest Carbon Partnership Facility (FCPF) and requested financial support to prepare its Readiness Plan Idea Note (R-PIN) that is needed to request FCPF support.

The relatively low amount of climate finance is the result of the Burundi’s low readiness to access and absorb climate finance and the current political crisis. Crucial institutional and legal policy frameworks were only recently developed or are still being prepared. There are only few climate change experts in the country. Overall weak technical and financial management adds to the balance and hinders the preparation of proposals and implementation of projects\(^9\)\(^9\). For the Green Climate Fund, in contrast to Rwanda and Kenya, Burundi has a focal point (Ministry of Finances and Economic Development Planning) rather than a designated authority\(^7\)\(^9\), nor an accredited entity (AI) that would enable direct access to the Green Climate funds.

**Climate change projects**

The relatively limited amount of climate change projects in Burundi can be explained at least in part by its recent period of conflict – which encourages other priorities. Climate change projects with a link to water and/or food security that are implemented in the country (either bilaterally or through international climate funds) include:

- ‘ACCES’ (2013-2018), entailing various projects for reconstruction and rehabilitation of the area north of the capital that suffered during the floods of February 2014, commissioned by GIZ and implemented by the World Bank, EU, AfDB and the Government of Burundi (ca. USD 25 million)\(^10\);  
- two regional projects of which Burundi is one of the targeted countries: ‘Lake Tanganyika Integrated Environmental Management Programme’ and ‘Mainstreaming Groundwater Considerations into the Integrated Management of the Nile River Basin’, implemented by UNDP and funded by GEF\(^8\)\(^9\);  
- ‘Climate Change Adaptation project for water and soil resources protection’ (2013-2018), funded by GIZ (ca. USD 10 million)\(^10\);  
- a research project on the economic impacts of climate change in Burundi, funded by DFID\(^10\).

For a list of international and multilateral climate projects in Burundi, see the Annex.

**Climate contribution of the Netherlands**

The Netherlands supports climate-relevant projects in Burundi through a variety of channels and in cooperation with range of actors with a focus on food security, halting deforestation and renewable energy:

- PAPAB program: the program aims to increase food security of at least 480,000 farming families, by promoting market-oriented, climate resilient and sustainable agricultural techniques, supported by fertilizer subsidies. PAPAB is the follow-up program of previous soil fertility programs (ISFM), integrated farm planning projects (PIP) and fertilizer subsidy programs;
- nutrition, school feeding and agricultural production program (P4P): the program focuses on reversion of deforestation and contributes to re-greening of the environment. The production component of P4P is linked to PAPAB. Nutrition and school feeding refers to climate smart agricultural practices (including planting of trees);
- financial services for farmers (agri-finance): the project aims to increase access of smallholders to credit to enable them to invest in new technologies and build their adaptive capacity. It includes a pilot on climate risk insurance, the first in Burundi;
- Energising Development program: in Burundi this program focuses on providing access to electricity through market introduction of solar photovoltaic systems for households, SMEs and social institutions.

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\(^{51}\) NDC-Partnership; [http://ndcpartnership.org/partners](http://ndcpartnership.org/partners)


\(^{54}\) Climate Funds Update website: [http://www.climatefundsupdate.org/country-pages](http://www.climatefundsupdate.org/country-pages)


\(^{57}\) HFA (2015)


\(^{59}\) HFA (2015)

Maps
Map 1  Zones most at risk due to climate change

Adapted from FEWS NET and USAID (2009): Livelihoods zoning "plus" activity in Burundi

Zones with highest food/water risks due to climate change:

- BI01: rain failures (annual), erosion
- BI03: rain failures (annual, increasingly severe), floods (every 5 yrs)
- BI04: rain failures (annual)
- BI07: rain failures (annual), floods
- BI09: rain failures, erosion/landslides
Map 2  Climatological zones in Burundi

Source: NAPA 2007 / DFID 2009
Map 3  Projected annual rainfall, 2031-2060 (left) and 2071-2099 (right)

Source: Bollin, C.; K. Fritzsche; S. Ruzima; S. Schneiderbauer; D. Becker; L. Pedoth; S. Liersch (2014): Analyse intégrée de la Vulnérabilité au Burundi, GIZ and MEEATU & MINAGRIE
**Map 4** Vulnerability to erosion in 2014 (top) and 2071-2099 (bottom)

Source: Bollin et al. (2014)
Map 5 Vulnerability to drought in 2014 (top) and 2071-2099 (bottom)

Source: Bollin et al. (2014)
Annex

International and multilateral climate projects (since 2012)
Sources  Climate Funds Update (2017)\textsuperscript{61} and World Bank (2017)\textsuperscript{62}

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<thead>
<tr>
<th>Name of Project</th>
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<th>Disbursed (USD millions)</th>
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<tr>
<td>Promotion of Small Hydro Power (SHP) for Productive Use and Energy Services</td>
<td>Global Environment Facility (GEF6)</td>
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<td>Restructuring of the Value Chain Development Programme (PRODEFI)</td>
<td>Adaptation for Smallholder Agriculture Programme (ASAP)</td>
<td>5</td>
<td>0.8</td>
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<td>Community Disaster Risk Management in Burundi</td>
<td>Least Developed Countries Fund (LDCF)</td>
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<td>Infrastructure resilience emergency project</td>
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<td>World Bank</td>
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<td>2014</td>
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<td>Sustainable Coffee Landscape project</td>
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<td>2013</td>
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\textsuperscript{61}  http://www.climatefundsupdate.org/data
\textsuperscript{62}  http://projects.worldbank.org/search?lang=en&searchTerm=&countrycode_exact=BI