Background and Introduction

Governments are often challenged with the significant task of financing recovery efforts after a disaster. Whilst dealing with the fiscal demands to undertake relief operations such as ensuring the availability of emergency assistance and sourcing funding for shelter, food and medical attention for displaced persons, governments also have to contend with the simultaneous challenges of mobilizing enough resources to undertake the medium- to long-term recovery and reconstruction process. This recovery process can include tasks that range from the clearance of debris to the restoration of critical services such as access to water and electricity for surviving populations to the reconstruction and rehabilitation of key public infrastructure.

In 2007, the Caribbean Catastrophe Risk Insurance Facility was created out of this recognition that natural catastrophes impose a significant burden on the financial ability of states to function after a disaster due to an unavailability of liquidity. The facility was structured as an insurance instrument to provide coverage similar to business interruption insurance in the event of losses from tropical cyclones or earthquakes for 16 Caribbean member governments. In 2013 CCRIF began offering coverage for excess rainfall as well.

In 2014, the facility was restructured into a segregated portfolio company (SPC) to facilitate offering new products and expansion into new geographic areas and is now named CCRIF SPC. The new structure, in which products are offered through a number of segregated portfolios, allows for total segregation of risk.

CCRIF SPC offers earthquake, tropical cyclone and excess rainfall policies to Caribbean governments. In April 2015, CCRIF signed a Memorandum of Understanding with COSEFIN (the Council of Ministers of Finance of Central America, Panama and the Dominican Republic) to allow Central American countries to access similar coverage.

Similar to a mutual insurance company, CCRIF is operated on behalf of its participating member countries, all of which pay a premium directly related to the amount of risk each transfers to CCRIF. Each country can purchase coverage up to a limit of US$100 million for each insured hazard (tropical
cyclone, earthquake or rainfall event) within a given year. By pooling their risks, reinsurance needs are significantly lowered (See Figure 1). This in turn leads to a pricing reduction, estimated at more than half of what it would traditionally cost if countries were to purchase identical coverage individually from reinsurance markets compared with buying the coverage from CCRIF.

Policies are triggered if the modelled loss is above a minimum value specified in the contract. Payouts above the trigger level increase with the level of modelled loss, up to a pre-defined coverage limit. Therefore payouts can be calculated and made very quickly because there is no need to estimate damage after an event.

**Why Parametric Insurance?**

The selection of a parametric instrument as a basis for the CCRIF policies was largely driven by the fact that parametric insurance is generally less expensive than an equivalent traditional indemnity insurance product as it does not require a loss assessment procedure in case of a disaster. Parametric insurance also allows for claims to be settled quickly. This is an important feature considering the urgent need for liquidity after a catastrophe. In addition, the instrument is also less exposed to moral hazard and adverse selection problems (which are costly to monitor) because the cost of insurance can be immediately related to the probability of an event, and the payout is independent of any mitigation efforts put in place after the policy is issued.

Despite these benefits, parametric products are exposed to basis risk, i.e., the possibility that a

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**What is CCRIF’s Parametric Insurance – How does it Work?**

CCRIF offers parametric insurance which disburses funds based on the occurrence of a pre-defined level of hazard and impact without having to wait for an on-site loss assessment. This feature is quite different from traditional indemnity-based insurance products in which claims are paid based on formal confirmation of the amount of a loss through on-site verification.

For the CCRIF instrument, payouts are made on the basis of exceeding a pre-established trigger event loss which is estimated in a model in which hazard inputs are generated (wind speed and storm surge in the case of tropical cyclones, ground shaking for earthquakes and rainfall amount for excess rainfall events) from independently-provided input data. These hazard levels are then applied to pre-defined government exposure to produce a loss estimate.

![Figure 1: Insurance Costs](image)
payout may be higher or lower than actual losses. Although this is a significant challenge in terms of the development of the instrument, careful design of index insurance parameters as undertaken by CCRIF helps reduce the basis risk.

The development of the CCRIF catastrophe model is an important contribution to national and regional risk management institutions through its collection of a significant set of detailed databases on national catastrophe risk exposures in its member states. This is important specifically because prior to this initiative most member countries had for the most part never undertaken any major effort to collate this information which would be critical in understanding the catastrophe risks faced at a national and regional level.

A Closer Look at the CCRIF Catastrophe Model
In undertaking the development of the CCRIF parametric insurance coverage, significant investment went into developing the underlying catastrophe models. Catastrophe models are essential tools in assessing the risk associated with catastrophe events. For the most part they are based on robust datasets containing:

- A hazard module
- An exposure module
- A vulnerability module
- A damage module
- A loss module

The CCRIF model is no different, with the modules all developed within the context of the particular hazards of relevance to the client countries – tropical cyclones, earthquakes and excess rainfall.

The model for tropical cyclones and earthquakes is based on the Multi-Peril Risk Evaluation System (MPRES). This system, was developed for CCRIF and is supported by Kinetic Analysis Corporation (KAC), a risk modelling company with strong roots in the Caribbean. The MPRES can handle multiple hazards and hazard assessment methodologies, can accommodate a variety of input/output formats and detailed exposure classifications, and produces accurate loss estimates with known statistical uncertainty.

Hazard Module
The hazard module defines the frequency and severity of a hurricane or earthquake, at a specific location. This is done by analyzing the historical frequencies of the peril and reviewing scientific studies on the severities and frequencies in the region of interest. Using these historic data, simulated event sets are generated which define the frequency and severity of thousands of simulated cyclone or earthquake events in terms of their tracks/locations/intensities.

This hazard module then calculates the hazard intensity at each location for each event in the simulated set. This is done by modelling the attenuation/degradation of the event from its location to the site under consideration and evaluates the propensity of local site conditions to either amplify or reduce the impact.
**Exposure Module**

In developing the exposure module, the exposure values of “assets at risk” are estimated from available secondary data sources (including economic and satellite data) and from the population distribution. This “proxy” approach is used due to limitations in availability of site-specific asset data. Based on tested algorithms, the module computes the value of different asset types for each 1-km grid square across the entire country in question. Saint Lucia’s exposure distribution below, provides an example.

**Vulnerability/Damage Module**

In terms of the vulnerability module, the starting point is to quantify the damage caused to each asset class by the intensity of a given event at a site.

Estimation of damage is measured in terms of a mean damage ratio (MDR). The MDR is defined as the repair cost divided by replacement cost of the structure. The curve that relates the MDR to the hazard (earthquake shaking, wind or storm surge inundation) intensity is called a vulnerability function. Each asset class has a different vulnerability curve for each hazard.

**Loss Module**

To calculate the losses, the damage ratio derived in the vulnerability module is translated into dollar loss by multiplying the damage ratio by the value at risk. This is done for each asset class in each grid cell. Losses are then aggregated as required (e.g. at the administrative or national level). Government assets or assets that are likely to be financed with government resources can be isolated and an assessment of financial needs for reconstruction calculated.

**The Rainfall Model**

The current Excess Rainfall model – the CCRIF SPC XSR Parametric Rainfall Model – is based on data from the Global Forecasting System (GFS) model produced by the US National Centers for Environmental Prediction (NCEP). This weather forecast model assimilates, when available, data such as rain, temperature, wind speed, humidity and pressure to improve modelled rain estimates. The GFS dataset provides accurate and reliable future daily rainfall estimates and has available a relatively long period of past data, which is necessary to fine-tune a forecasting rainfall model.

This rainfall model is being used for CCRIF’s 2015/2016 XSR policies and replaces the previous model that used satellite data provided by the Tropical Rainfall Measurement Mission (TRMM), which terminated in April 2015.

The current excess rainfall model uses the GFS data to compile a 2-day or 3-day (depending on the country) running aggregate of rainfall measurements (Aggregate Rainfall) at all of the Grid Cells – known as WRFXSR (Weather Research and Forecasting Excess Rainfall) Grid Cells – across a country.
As with the Tropical Cyclone and Earthquake products, the MPRES exposure database is utilized to map exposures across a country at 30 arcsecond (~1 km) resolution.

Since the WRFXSR Grid Cells are at ~1 km resolution, the 1 km MPRES exposure data are mapped onto the WRFXSR grid. This provides a distribution of the MPRES values between the rainfall measurement points covering each country.

### Calculating index losses

To calculate index losses, the aggregate rainfall is calculated for each WRFXSR Grid Cell using a moving window, which ensures that peak measurements are captured. A WRFXSR Grid Cell Event occurs when the aggregate rainfall exceeds 75 mm and ends when aggregate rainfall falls below that level. For each Grid Cell, the aggregate rainfall measurement is used to calculate the index loss rate via a damage function which maps loss percentage to rainfall amounts.

The Rainfall Index Loss for each Grid Cell is calculated by applying the indemnity rate for each Grid Cell Event to the exposure value of the Grid Cell. The next step is to calculate the total index loss for the rainfall event.

A Covered Area Rainfall Event (CARE) or national rainfall event is recorded when the total number of ongoing Grid Cell Events exceeds a threshold (known as the active percentage) identified for each country. For example, a country may be covered by 800 Grid Cells of which 90% (or 720 cells) must be active to trigger a CARE. A CARE ends when the number of ongoing Grid Cell Events falls below this threshold.

To calculate the Rainfall Index Loss for the CARE, the Grid Cell Event Losses (for the Grid Cell Events that contributed to the CARE) are aggregated. Therefore, the Rainfall Index Loss for a CARE can only be calculated once all Grid Cell Events that contributed to it are finished, in other words, when the rainfall in those cells falls below 75 mm.

For any Grid Cell Event that spans two or more separate CAREs, the Grid Cell Event Loss is allocated in full to the first CARE and forms part of the Rainfall Index Loss only for that first CARE.
How is a CCRIF Policy Triggered?
The trigger level is dependent on the coverage purchased by individual countries. Member governments may purchase coverage which triggers for a ‘1-in-15-year’ hurricane or a ‘1-in-20-year’ earthquake, for example, with maximum coverage of US$100 million available for each peril. The cost of coverage is a direct function of the amount of risk being transferred, ensuring no cross-subsidization of premiums and a level playing field for all participants.

A CCRIF policy is triggered based on the government loss estimated in the loss model, which in turn is based on the characteristics of the hazard and the distribution and exposure of government assets at risk of being affected by the hazard (as described above). The trigger level (attachment point or deductible) specified in the policy contract is then applied to the modelled government loss. The policy is triggered when the modelled loss for a hurricane or earthquake in a member country equals or exceeds the attachment point specified in the policy contract.

How are Payouts Calculated?
In the case of hurricanes, a payout to a country would depend on the storm’s intensity, track and storm surge relative to the distribution and exposure of government assets and on the attachment and exhaustion points and coverage limit that the country has selected. Once the trigger level has been reached, the payout increases as the modelled loss increases, due to higher hazard intensity, a closer track and/or greater storm surge for the storm (relative to the distribution and exposure of assets).

Payouts for hurricanes are determined based on government losses calculated using storm data from the United States National Hurricane Center and parameters fixed within the loss estimation model used to underpin CCRIF’s policies. The model calculates the level of wind and ocean hazards, such as storm surge, encountered across the affected area and uses the pre-fixed value and distribution of government exposures to those hazards to calculate a government loss.

In the case of earthquake policies, a payout would depend on the source magnitude and hypocentre (location and depth) of the earthquake using data obtained from the United States Geological Survey. This is translated into a ground shaking intensity across each affected country which in turn drives generation of a modelled loss. The payout increases as the level of losses increases, and losses are directly calculated from the amount of ground shaking in the affected country and what assets are exposed to what level of shaking.

In the case of excess rainfall policies, a payout to a country depends on the peak aggregate rainfall for the event, the distribution of high rainfall relative to exposure, and the proportion of the country/exposure impacted. As the index loss increases above the attachment point the payout increases as the Rainfall Index Loss increases, until the maximum payout (coverage limit) has been reached.

The specific payout totals are based on the level of coverage a country has. Each individual country chooses its own coverage options in terms of the attachment point (deductible), exhaustion point (which determines the coverage limit) and premium. The amount of the premium dictates how much of the risk between the attachment and exhaustion points a country is actually covered for.
Since its inception in 2007, CCRIF has made 13 payouts totalling almost US$38 million to 8 member governments. All payouts were transferred to the respective governments within 14 days after each event. These payouts are shown in the table below.

### Payouts made by CCRIF during 2007 - 2015

<table>
<thead>
<tr>
<th>Event</th>
<th>Country Affected</th>
<th>Policy Triggered</th>
<th>Payout (US$)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Earthquake, 29 November 2007</td>
<td>Dominica</td>
<td>Earthquake</td>
<td>528,021</td>
</tr>
<tr>
<td>Earthquake, 29 November 2007</td>
<td>Saint Lucia</td>
<td>Earthquake</td>
<td>418,976</td>
</tr>
<tr>
<td>Tropical Cyclone Ike, September 2008</td>
<td>Turks &amp; Caicos Islands</td>
<td>Tropical Cyclone</td>
<td>6,303,913</td>
</tr>
<tr>
<td>Earthquake, 12 January 2010</td>
<td>Haiti</td>
<td>Earthquake</td>
<td>7,753,579</td>
</tr>
<tr>
<td>Tropical Cyclone Earl, August 2010</td>
<td>Anguilla</td>
<td>Tropical Cyclone</td>
<td>4,282,733</td>
</tr>
<tr>
<td>Tropical Cyclone Tomas, October 2010</td>
<td>Barbados</td>
<td>Tropical Cyclone</td>
<td>8,560,247</td>
</tr>
<tr>
<td>Tropical Cyclone Tomas, October 2010</td>
<td>Saint Lucia</td>
<td>Tropical Cyclone</td>
<td>3,241,613</td>
</tr>
<tr>
<td>Tropical Cyclone Tomas, October 2010</td>
<td>St. Vincent &amp; the Grenadines</td>
<td>Tropical Cyclone</td>
<td>1,090,388</td>
</tr>
<tr>
<td>Tropical Cyclone Gonzalo, October 2014</td>
<td>Anguilla</td>
<td>Excess Rainfall</td>
<td>493,465</td>
</tr>
<tr>
<td>November Trough, 7-8 November 2014</td>
<td>Anguilla</td>
<td>Excess Rainfall</td>
<td>559,249</td>
</tr>
<tr>
<td>November Trough, 7-8 November 2014</td>
<td>St. Kitts &amp; Nevis</td>
<td>Excess Rainfall</td>
<td>1,055,408</td>
</tr>
<tr>
<td>Trough System, 21 November 2014</td>
<td>Barbados</td>
<td>Excess Rainfall</td>
<td>1,284,882</td>
</tr>
<tr>
<td>Tropical Storm Erika, September 2015</td>
<td>Dominica</td>
<td>Excess Rainfall</td>
<td>2,400,000</td>
</tr>
<tr>
<td><strong>Total for 2007 - 2015</strong></td>
<td></td>
<td></td>
<td><strong>US$ 37,972,474</strong></td>
</tr>
</tbody>
</table>

### Which Hazards are Included in the Tropical Cyclone and Excess Rainfall Payout Calculation?

Hazards that are included in computing the loss in Tropical Cyclone policies are wind in all areas and storm surge in coastal areas where assets can be at risk from storm surge inundation. Rainfall is included only in Excess Rainfall policies. If a given tropical cyclone triggers both policies then both payouts would be due.

### Key Elements of CCRIF Policies and their Definitions

#### Attachment Point

The attachment point can be described as the minimum severity of the event loss which gives rise to a payment and therefore is the loss value at which the policy contract is triggered. The attachment point therefore functions like a deductible in a standard insurance policy.

Payouts are made on the policy when the modelled loss for an event in a member country equals or exceeds the attachment point specified in the contract. The policy holder, in CCRIF’s case the specific country, covers all losses below the attachment point for any event.

The attachment point applies equally to each individual storm or earthquake. There is no

### CCRIF Policies and Coverage Selection

Regarding CCRIF policies and coverage selection, all countries are required to make three key decisions regarding their coverage selection. These are:

- The selection of an attachment point
- The selection of an exhaustion point
- The selection of the coverage limit
The return period is the expected time between hazard events of a certain magnitude.

For example, an attachment point selected at the 1-in-15-year loss level represents the loss amount (in dollars) which is likely to be exceeded only once in fifteen years. While countries generally select the attachment point as a return period, the policy includes the equivalent dollar value of loss which that return period represents in the country’s risk profile.

For the 2014/2015 policy year, for example, CCRIF member countries selected attachment point return periods in the range 10 - 30 years for tropical cyclones, 20 - 100 years for earthquakes and 5 years for excess rainfall events.

Exhaustion Point
The exhaustion point refers to the severity of the event loss at or above which the maximum payment is triggered. For recent policy years, CCRIF member countries typically selected exhaustion point return periods in the range of 75 - 180 years for tropical cyclones, 100 - 250 years for earthquakes and 25 years for excess rainfall events.

Ceding Percentage
The ceding percentage is the fraction of the risk between the attachment and exhaustion points that the country is transferring to CCRIF.

Once the attachment point and exhaustion point are chosen, there is a one-to-one relationship between the amount of premium paid and the ceding percentage – a higher premium means a higher ceding percentage.

Coverage or Policy Limit
The policy/coverage limit is the difference between the attachment and exhaustion points (exhaustion - attachment) multiplied by the ceding percentage (the amount of risk between the attachment and exhaustion points that the country is transferring to CCRIF).

The coverage limit is the maximum amount that can be paid out under the contract in any one year for any one peril (hurricane or earthquake). Payouts for events that have a modelled loss that exceeds the exhaustion point are paid out at the coverage limit.

The policy limit applies to the full term (one year) of the contract; the total amount paid out under the contract during the one-year period will not exceed the policy limit, whether that policy limit is due to payout from one large event or multiple smaller events that each trigger payments under the contract. The coverage limit that is selected will depend on the capacity of the country to absorb losses and also on what premium the country wishes to pay.

Figure 2 shows the elements of a CCRIF policy with some example attachment and exhaustion point return periods.
**Exhaustion Point**

**Coverage Limit**
The maximum amount that can be paid out under the contract in any one year for any one peril

**Coverage**
The difference between the coverage limit and the attachment point multiplied by the "ceding percentage"

**Attachment Point***
The losses retained by a country. This is the quantity of expenses that a country must pay "out of pocket" before CCRIF begins payment for remaining losses.

*The attachment point can be described as the minimum severity of the event loss which gives rise to a payment and therefore is the loss value at which the policy contract is triggered. The attachment point therefore functions like a deductible in a standard insurance policy.

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**Figure 2: Elements of a CCRIF Policy**

1/5 to 1/20

Losses retained by the country per event

1/75 to 1/200
How is the Premium Cost Determined?

The premium is determined by the amount of coverage a country decides to take, the attachment and exhaustion points of that coverage, and the risk profile of the country. More specifically, a member country’s premium cost is based on the frequency with which the hazard (hurricane, earthquake or excess rainfall event) exceeds the attachment point (as identified by the country-specific hazard profile) as well as the range between the attachment and exhaustion points and amount of risk being transferred (as encapsulated in the coverage limit). Standard pricing approaches are used, as by any other insurance company, but CCRIF does not charge any “earnings” component as it is a not-for-profit organization.

Is there a Limit on the Number of Events Covered per Year?

Generally, countries can purchase coverage up to US$100 million per peril. There is no limit in terms of how many events per year that a policy can cover. The real issue is the specific amount of coverage purchased relative to the impact of an event on a given country in a given year.

Assessing 2 Scenarios

Scenario 1:
What factors led to a payout of ~US$8.5M to Barbados as compared to ~US$3.2M for Saint Lucia on their Tropical Cyclone policies after Hurricane Tomas in 2010?

In 2010, there was some concern expressed about the significantly lower payout on its Tropical Cyclone policy received by the Government of Saint Lucia relative to their losses and in comparison to the payout received by the Government of Barbados. In the case of Saint Lucia, most of the damage that occurred was a result of the heavy rainfall and secondary induced hazards such as landslides.

Neither rainfall nor landslides are included in the CCRIF Tropical Cyclone policies and are not therefore included in the pricing provided to countries for coverage. In these policies, hurricane coverage is priced based on damage from wind and storm surge and payouts are based on losses from wind and storm surge. CCRIF’s Excess Rainfall policies provide coverage for rainfall events, but this coverage was not available until 2014.

Other factors that affects payouts to countries include the level of government exposure and the specific policy terms. Determination of payouts also depend on the value of assets insured which will have a major impact on the dollar value of damage experienced and level of modelled losses. The coverage selections made by Saint Lucia and Barbados in terms of their attachment and exhaustion points and coverage limits played a significant part in determining the payouts that were received. Policy parameters are selected by each

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1 Adapted from Caribbean and Central American Partnership for Catastrophe Risk Insurance, World Bank, 2014
country and are key determinants of the triggering of a policy or not and the level of payouts.

**Scenario 2:**

*Why was Anguilla’s Excess Rainfall policy triggered after Hurricane Gonzalo in 2014 and not the country’s Tropical Cyclone policy?*

![Accumulated rainfall for Anguilla during October 13-14 2014](image)

Tropical Cyclone Gonzalo impacted Anguilla as a Category 1 hurricane in October 2014 and triggered the country’s Excess Rainfall policy but not its Tropical Cyclone policy.

A Covered Area Rainfall Event (CARE) resulted in Anguilla during Gonzalo (during the period October 13 - 14). For the CARE, the Caribbean Rainfall Model produced Maximum Aggregate Rainfall of 191.02 mm in the north of the island and the maximum number of ongoing Grid Cell Events was 114 which exceeded the required threshold (109) specified in Anguilla’s Excess Rainfall policy to trigger a CARE. In fact, it was Anguilla’s full complement.

The Rainfall Index Losses calculated for Anguilla’s CARE exceeded the attachment point on its Excess Rainfall policy and therefore a payout of US$493,465 was due.

On the other hand, while preliminary runs of the CCRIF loss model generated government losses due to wind damage under the conditions of Anguilla’s Tropical Cyclone policy, these losses were below its policy attachment point. Therefore no payout was due under this policy.

![Map showing the path and wind footprint of Tropical Cyclone Gonzalo](image)

*Source: NHC & CCRIF SPC/KAC MPRES*

**Conclusion**

It is important to note that current CCRIF policies are not meant to provide full insurance of government assets but rather catastrophe insurance against loss of revenue and additional costs associated with disaster response and early recovery. Hence it is most efficient when used to cover those events which overwhelm the capacity of the state to respond effectively, primarily high intensity, low frequency events. Similarly the insurance instrument is not meant to cover the entire risk profile of countries as a result of a catastrophe but instead is meant to ensure that there is some measure of liquidity available to governments as resources are mobilized to assist with the longer term recovery and redevelopment processes.
In 2007, the Caribbean Catastrophe Risk Insurance Facility was formed as the first multi-country risk pool in the world, and was the first insurance instrument to successfully develop parametric policies backed by both traditional and capital markets. It was designed as a regional catastrophe fund for Caribbean governments to limit the financial impact of devastating hurricanes and earthquakes by quickly providing financial liquidity when a policy is triggered.

In 2014, the facility was restructured into a segregated portfolio company (SPC) to facilitate offering new products and expanding into new geographic areas and is now named CCRIF SPC. The new structure, in which products are offered through a number of segregated portfolios, allows for total segregation of risk. CCRIF SPC is registered in the Cayman Islands and operates as a virtual organisation, supported by a network of service providers covering the areas of risk management, risk modelling, captive management, reinsurance, insurance brokerage, asset management, technical assistance, corporate communications and information technology.

In 2015, CCRIF expanded into Central America, when CCRIF and COSEFIN (the Council of Ministers of Finance of Central America, Panama and the Dominican Republic) signed a Memorandum of Understanding to provide catastrophe insurance to Central American countries. Also at that time, Nicaragua signed a Participation Agreement, becoming the first CCRIF member from Central America.

CCRIF currently offers earthquake, tropical cyclone and excess rainfall policies to Caribbean and Central American governments.

CCRIF helps to mitigate the short-term cash flow problems small developing economies suffer after major natural disasters. CCRIF’s parametric insurance mechanism allows it to provide rapid payouts to help members finance their initial disaster response and maintain basic government functions after a catastrophic event.

Since the inception of CCRIF in 2007, the facility has made 13 payouts for hurricanes, earthquakes and excess rainfall totalling US$38 million to eight member governments. All payouts were transferred to the respective governments within 14 days (and in some cases within a week) after the event.

CCRIF was developed under the technical leadership of the World Bank and with a grant from the Government of Japan. It was capitalised through contributions to a Multi-Donor Trust Fund by the Government of Canada, the European Union, the World Bank, the governments of the United Kingdom and France, the Caribbean Development Bank and the governments of Ireland and Bermuda, as well as through membership fees paid by participating governments.

The current members of CCRIF are:

**Caribbean** – Anguilla, Antigua & Barbuda, Bahamas, Barbados, Belize, Bermuda, Cayman Islands, Dominica, Grenada, Haiti, Jamaica, St. Kitts & Nevis, Saint Lucia, St. Vincent & the Grenadines, Trinidad & Tobago and Turks & Caicos Islands

**Central America** – Nicaragua

www.ccrif.org | pr@ccrif.org | @ccrif_pr | CCRIF SPC