William's Update

Remittances

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September 11, 2025

Abstract

This document is a follow-up to the meeting on September 29th and addresses the items discussed during that meeting. This provides an update on who was contacted regarding the remittance datasets, offers updates on previously problematic pdf file links, and clarifies how the stablecoin/bitcoin cross-border flows dataset works. Most importantly, this presents the extracted remittance data from Remitscope.

Table of contents

1 Data Update

I have contacted two authors from Defying the Odds: Remittances During the COVID-19 Pandemic

- The Remitscope data is reliable but incomplete
- Defying the Odds: Remittances During the COVID-19 Pandemic provides additional data to the Remitscope data.
- I am currently requesting acces to their dataset so that we can merge their dataset (2018-2020) to ours (2019-2024)

2 Data Analysis Results

2.1 Overview

This analysis examines remittance flows using data extracted from Remitscope, covering 728 remittance records from 2019-2024.

2.1.1 Data Completeness Summary

- **Total records**: 728
- **Date range**: 2019 - 2024
- **Sending countries**: 206 (good global coverage)
- **Receiving countries**: 20 (limited coverage - only 10.3% of world)

2.2 Interactive Visualizations

2.3 Sending Countries Analysis

The remittance data shows a global distribution of sending countries, with developed nations dominating the top positions:

2.3.1 Top 10 Sending Countries

```
Sending Country            Records
Canada                         18
Italy                      15
United States of America   15
Spain                      14
France                     14
Germany                    14
United Kingdom             12
China                      11
Sweden                     10
Switzerland                10
```

2.4 Receiving Countries Analysis

The receiving countries show a strong concentration in Latin America:

2.4.1 Top 10 Receiving Countries

```
Receiving Country        Records
Ecuador                      183
Mexico                       169
Panama                       102
Senegal                       38
Kenya                         34
Colombia                      32
Uganda                        20
Chile                         19
Morocco                       19
Ethiopia                      17
```

2.5 Temporal Distribution

The data collection shows significant variation across years:
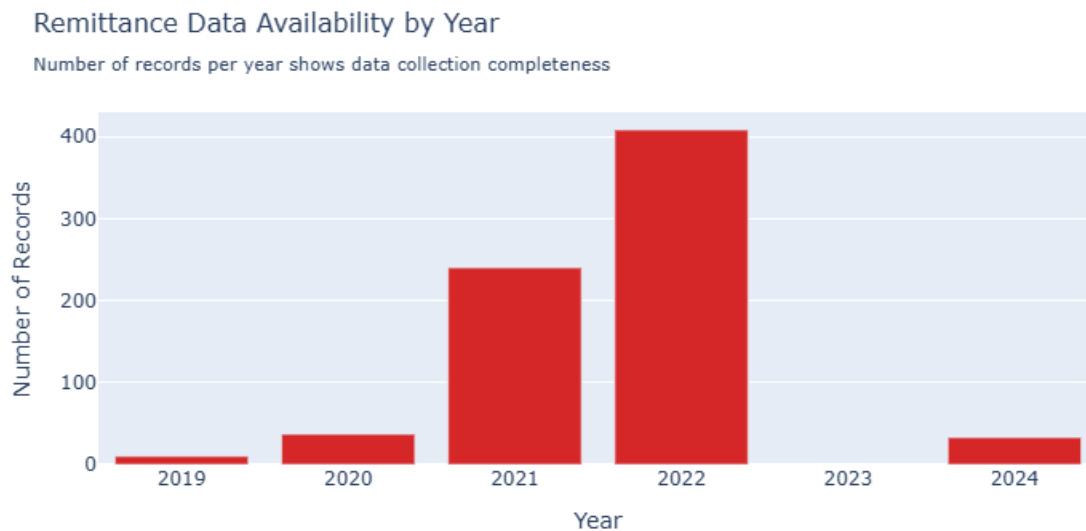
2.5.1 Records by Year

Figure 1: Records by Year

Note: 2023 data is completely missing from the dataset.

2.6 Key Findings

- **Peak Collection**: 2022 shows the highest data collection with 408 records
- **Geographic Concentration**:
    - **Sending**: Distributed globally across 206 countries (developed nations leading)

– **Receiving**: Highly concentrated with top 3 countries (Ecuador, Mexico, Panama) accounting for 454/728 records (62.4%)

Please access the HTML files in: `output\exported_figures\`

3 Visual Analysis
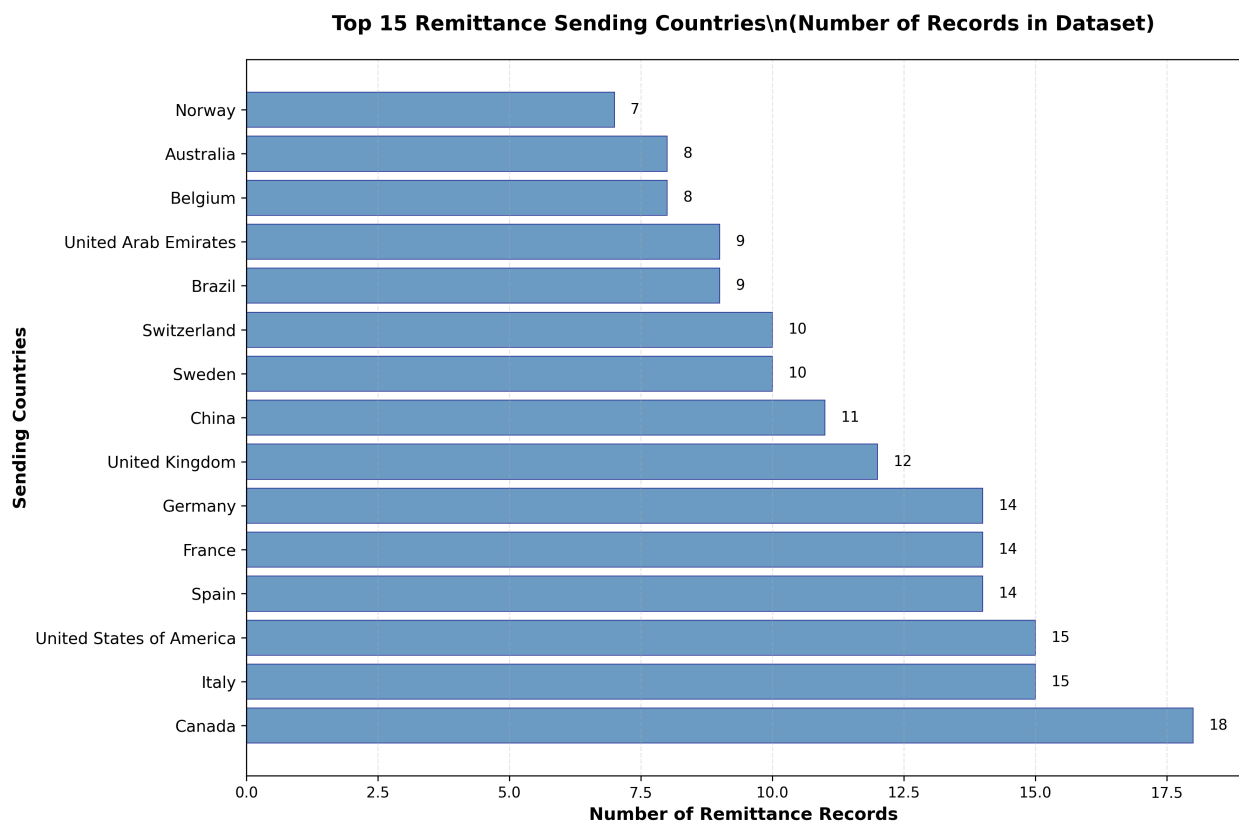
3.1 Sending Countries Analysis

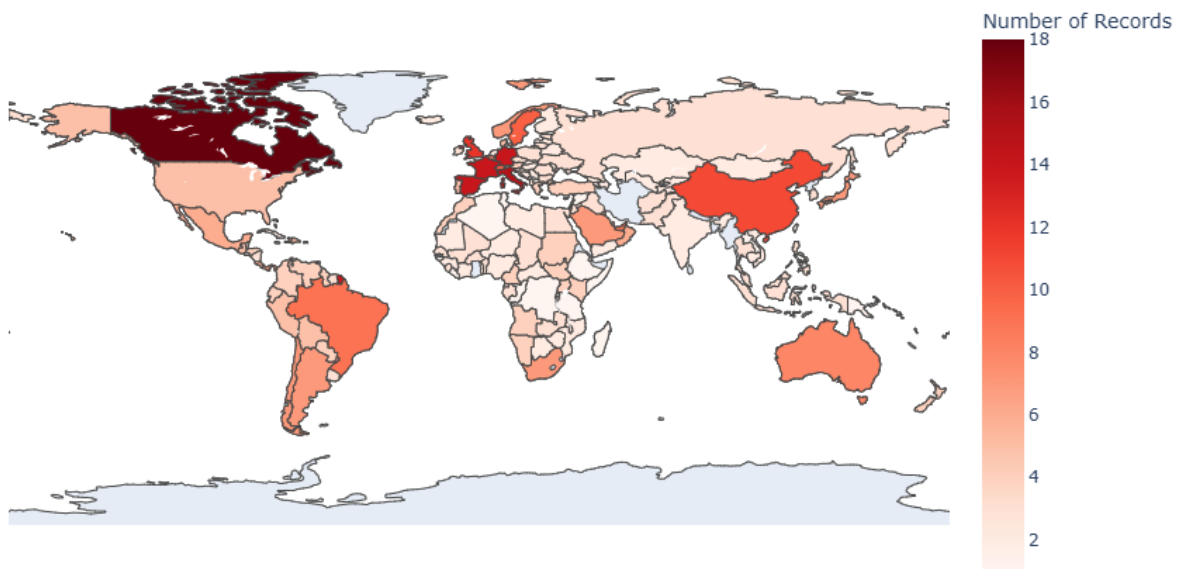Figure 2: Top 15 Remittance Sending Countries

Figure 3: Additional Sending Countries Analysis

The analysis reveals that developed nations dominate remittance sending, with Canada leading at 18 records, followed by Italy, USA, Spain, France, and Germany each contributing 14-15 records.
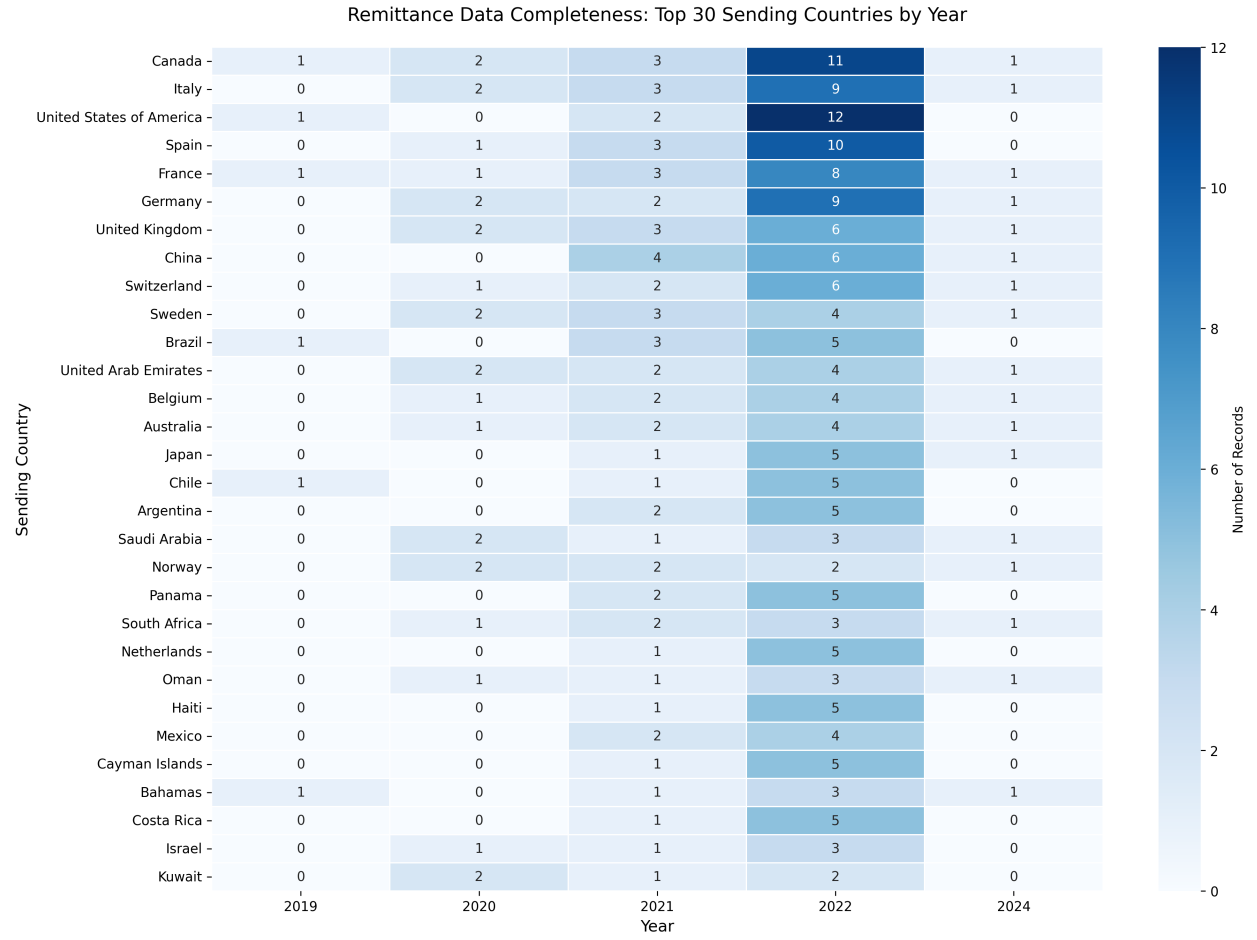
Remittance Data Completeness: Top 30 Sending Countries by Year

Sending Country	2019	2020	2021	2022	2024
Canada	1	2	3	11	1
Italy	0	2	3	9	1
United States of America	1	0	2	12	0
Spain	0	1	3	10	0
France	1	1	3	8	1
Germany	0	2	2	9	1
United Kingdom	0	2	3	6	1
China	0	0	4	6	1
Switzerland	0	1	2	6	1
Sweden	0	2	3	4	1
Brazil	1	0	3	5	0
United Arab Emirates	0	2	2	4	1
Belgium	0	1	2	4	1
Australia	0	1	2	4	1
Japan	0	0	1	5	1
Chile	1	0	1	5	0
Argentina	0	0	2	5	0
Saudi Arabia	0	2	1	3	1
Norway	0	2	2	2	1
Panama	0	0	2	5	0
South Africa	0	1	2	3	1
Netherlands	0	0	1	5	0
Oman	0	1	1	3	1
Haiti	0	0	1	5	0
Mexico	0	0	2	4	0
Cayman Islands	0	0	1	5	0
Bahamas	1	0	1	3	1
Costa Rica	0	0	1	5	0
Israel	0	1	1	3	0
Kuwait	0	2	1	2	0

Figure 4: Sending Countries Temporal Heatmap

3.1.1 Receiving Countries Analysis

Remittance Receiving Countries\n(All 20 Countries in Dataset)
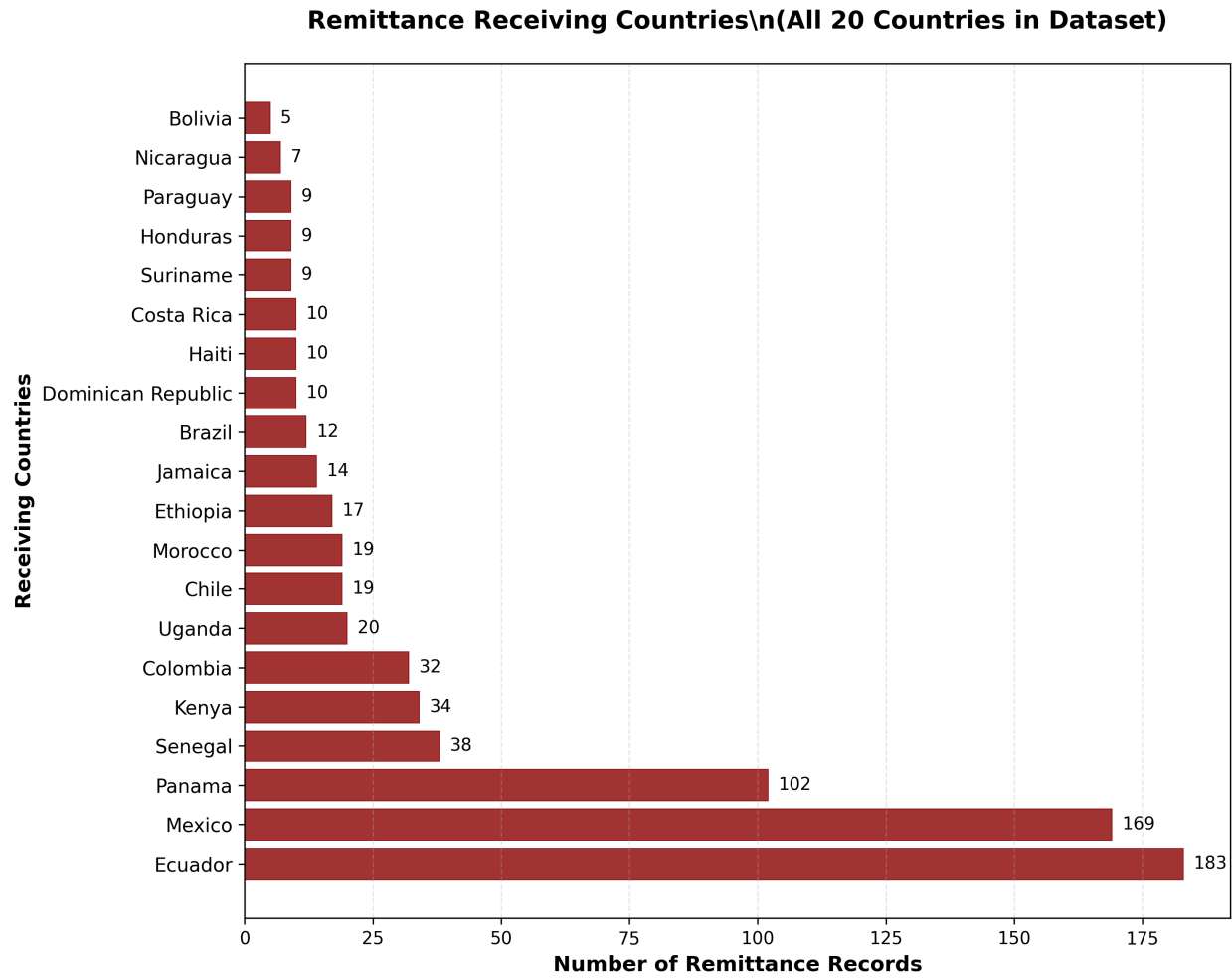

Figure 5: All 20 Remittance Receiving Countries

Remittance Data Availability: RECEIVING Countries

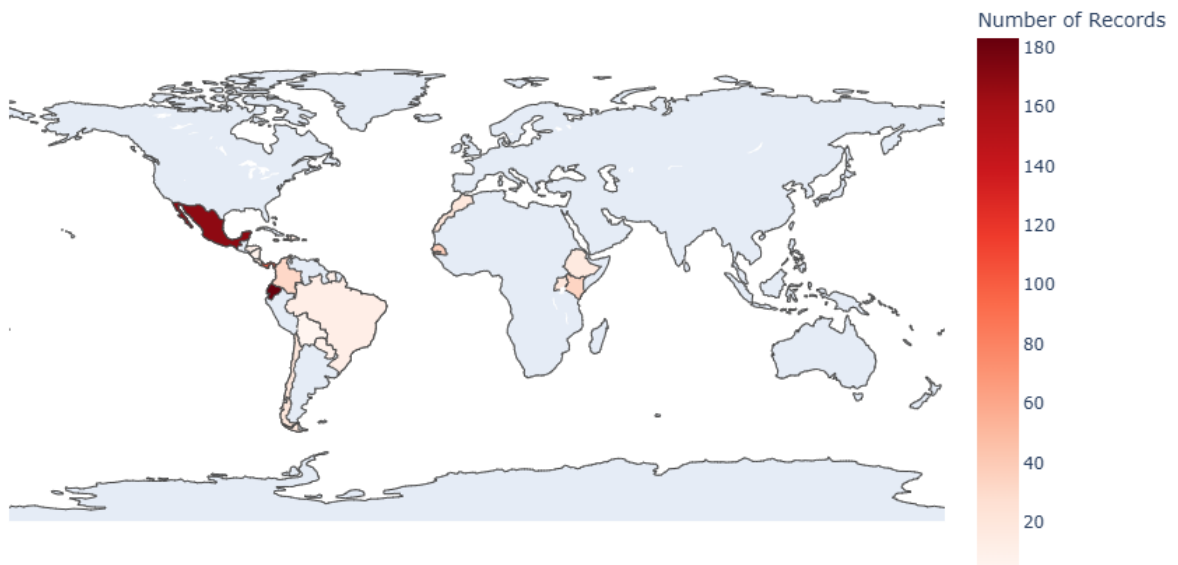Number of remittance records by receiving country

Figure 6: Additional Receiving Countries Analysis

The receiving countries show strong concentration in Latin America, with Ecuador (183 records) and Mexico (169 records) dominating the dataset.
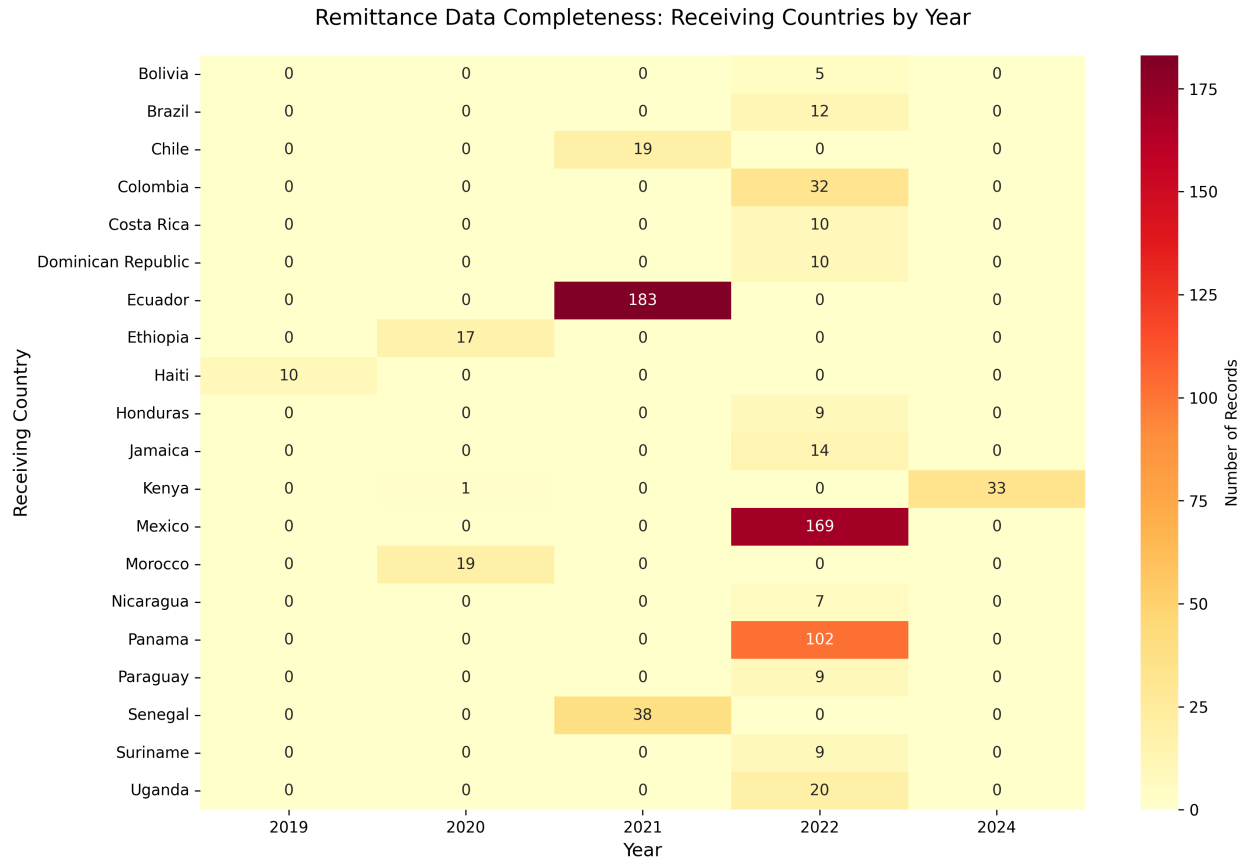
Figure 7: Receiving Countries Temporal Heatmap Detail

3.2 Data concentration:

- Top 10 receiving countries: 633/728 records (87.0%)
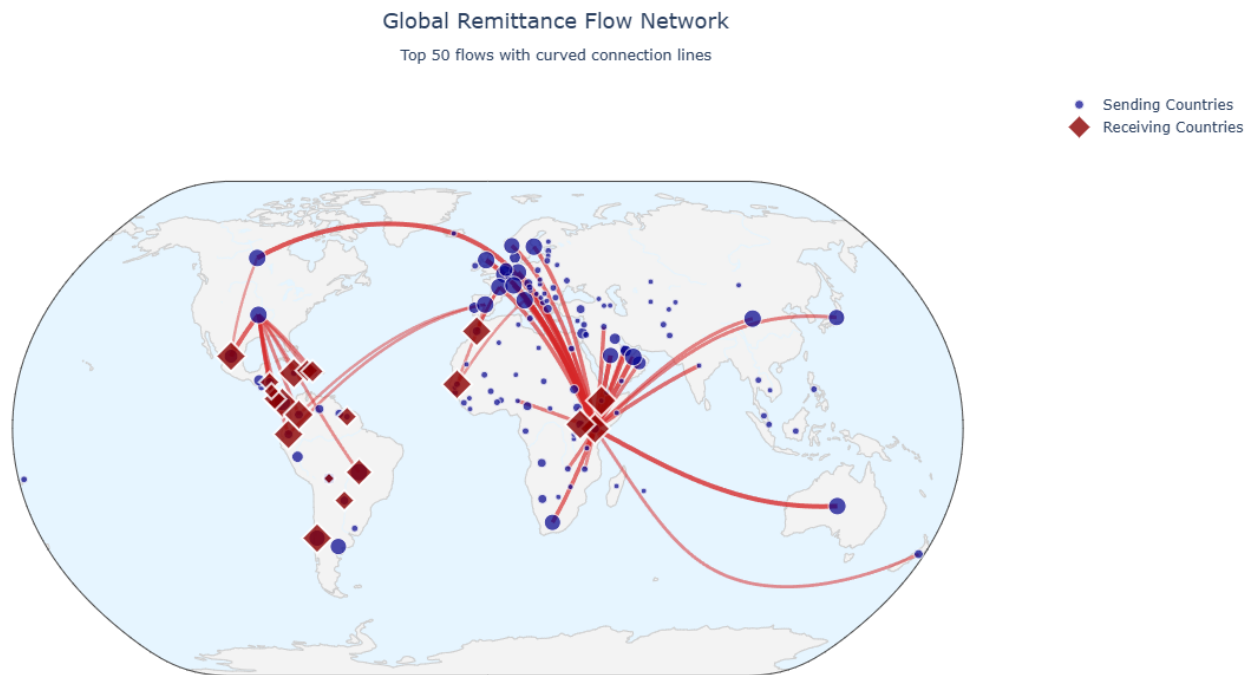- Top 10 sending countries: 133/728 records (18.3%)

3.3 Main Flows

Figure 8: Main Remittance Flow Patterns

Interactive HTML Link: View Interactive Main Flow Map
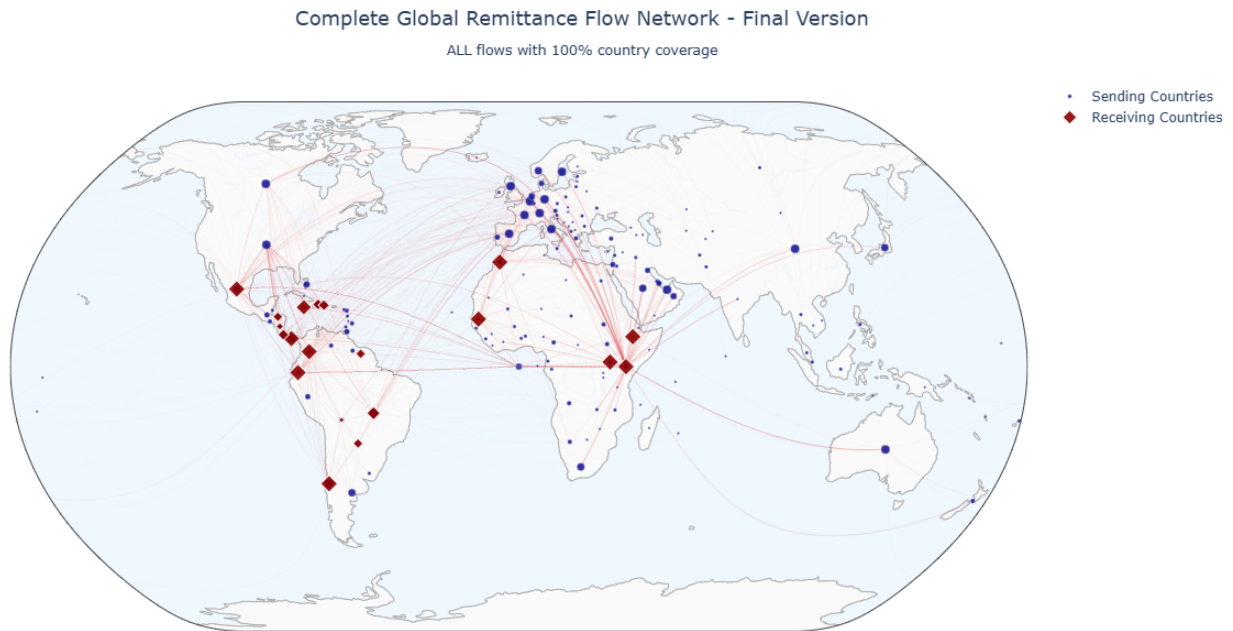
3.4 Complete Flows

Figure 9: Complete Remittance Flow Coverage

Interactive HTML Link: View Interactive Complete Flow Map

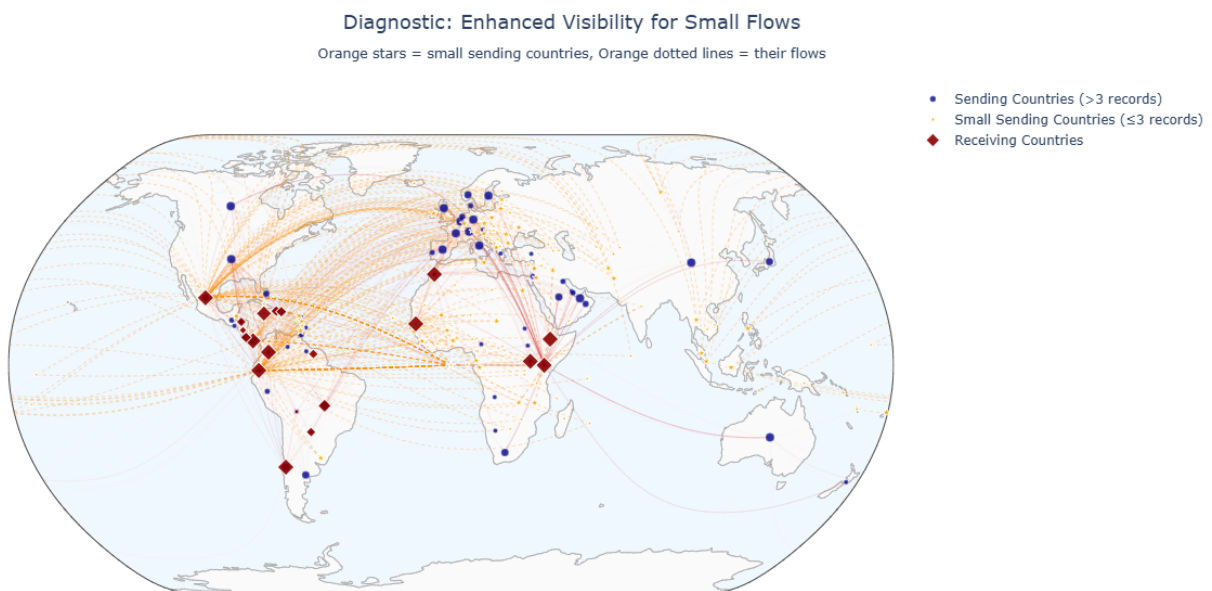## 3.5 Complete Flows with Small Flows Visibility

Figure 10: Enhanced Visibility for Small Flows

Interactive HTML Link: View Interactive Enhanced Visibility Map

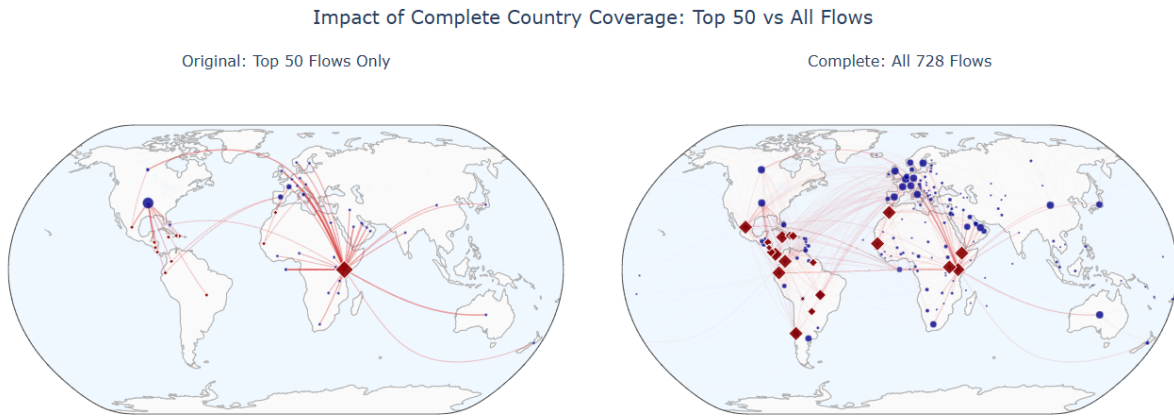## 3.6 Main Flow vs Complete Flow Comparison

Figure 11: Comparison: Main vs Complete Flows

Interactive HTML Link: View Interactive Flow Comparison

3.7 Key Insights

3.7.1 Network Structure

- **Flow Direction**: Strong unidirectional pattern from developed to developing nations

4 Appendix

4.1 HTML Interactive Versions of Graphs

Please access the HTML files in: `output\exported_figures\`