



Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra

**Swiss Agency for Development
and Cooperation SDC**



Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra

Federal Department of Home Affairs FDHA
Federal Office of Meteorology and Climatology MeteoSwiss



Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra

The Swiss Agency for Development and Cooperation SDC

Dr. André Wehrli



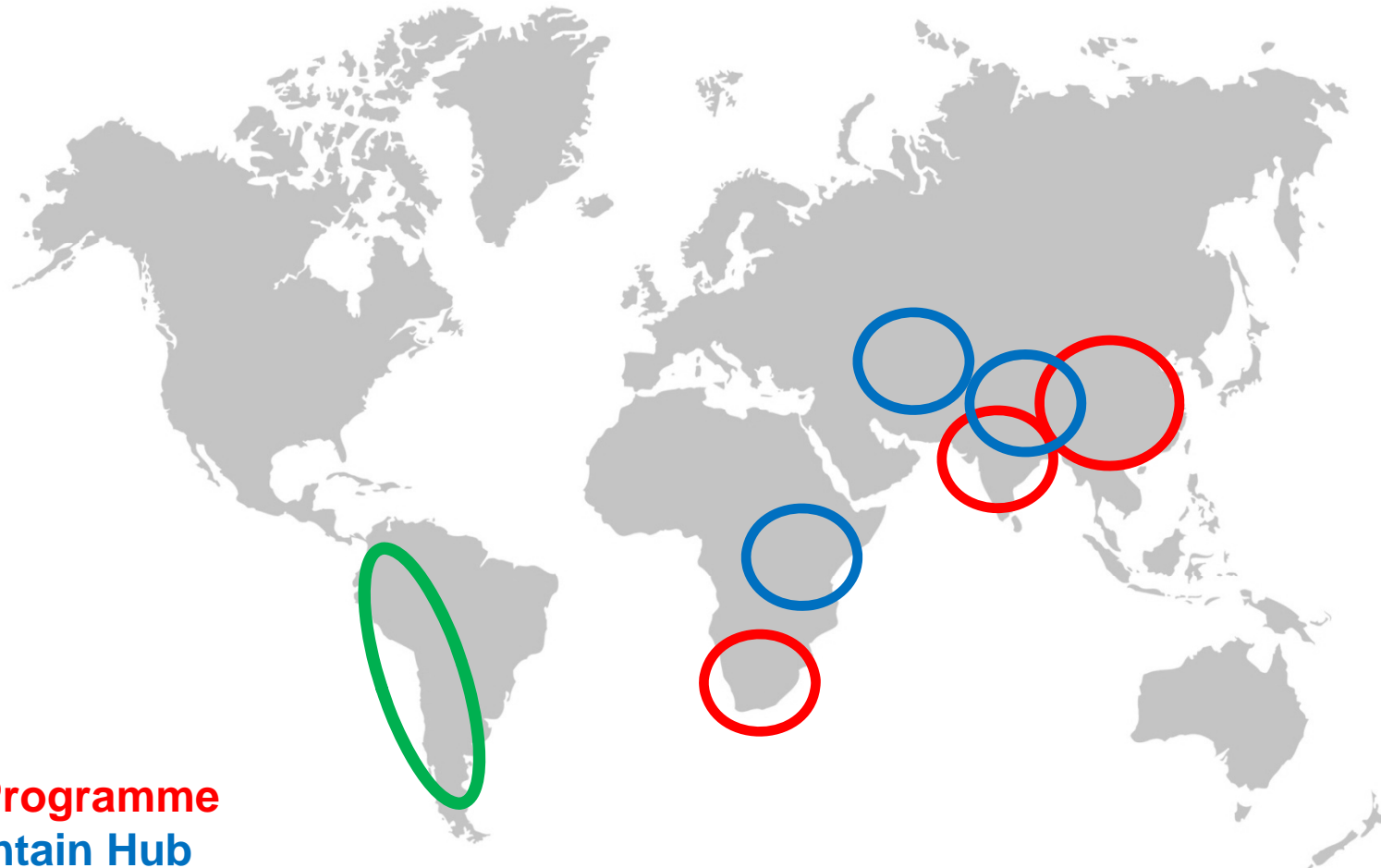
Federal Department of Foreign Affairs FDFA
Swiss Agency for Development and Cooperation SDC

Département fédéral des affaires étrangères DFAE
Direction du développement et de la coopération DDC

Eidgenössisches Departement für auswärtige Angelegenheiten EDA
Direktion für Entwicklung und Zusammenarbeit DEZA



Global Programme Climate Change Hotspots



CC Programme
Mountain Hub
CC Programm & Mountain Hub





Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra

Swiss Confederation

Federal Department of Home Affairs FDHA
Federal Office of Meteorology and Climatology **MeteoSwiss**

CATCOS

Extending **Global Monitoring of Essential Climate Variables**

Dr. Sebastian Koenig

International Affairs Division

Federal Office of Meteorology and Climatology MeteoSwiss

www.gcos.ch | sebastian.koenig@meteoswiss.ch



Rhone Glacier, Switzerland



2007



Rhone Glacier, Switzerland



2011



Global Climate Observing System GCOS

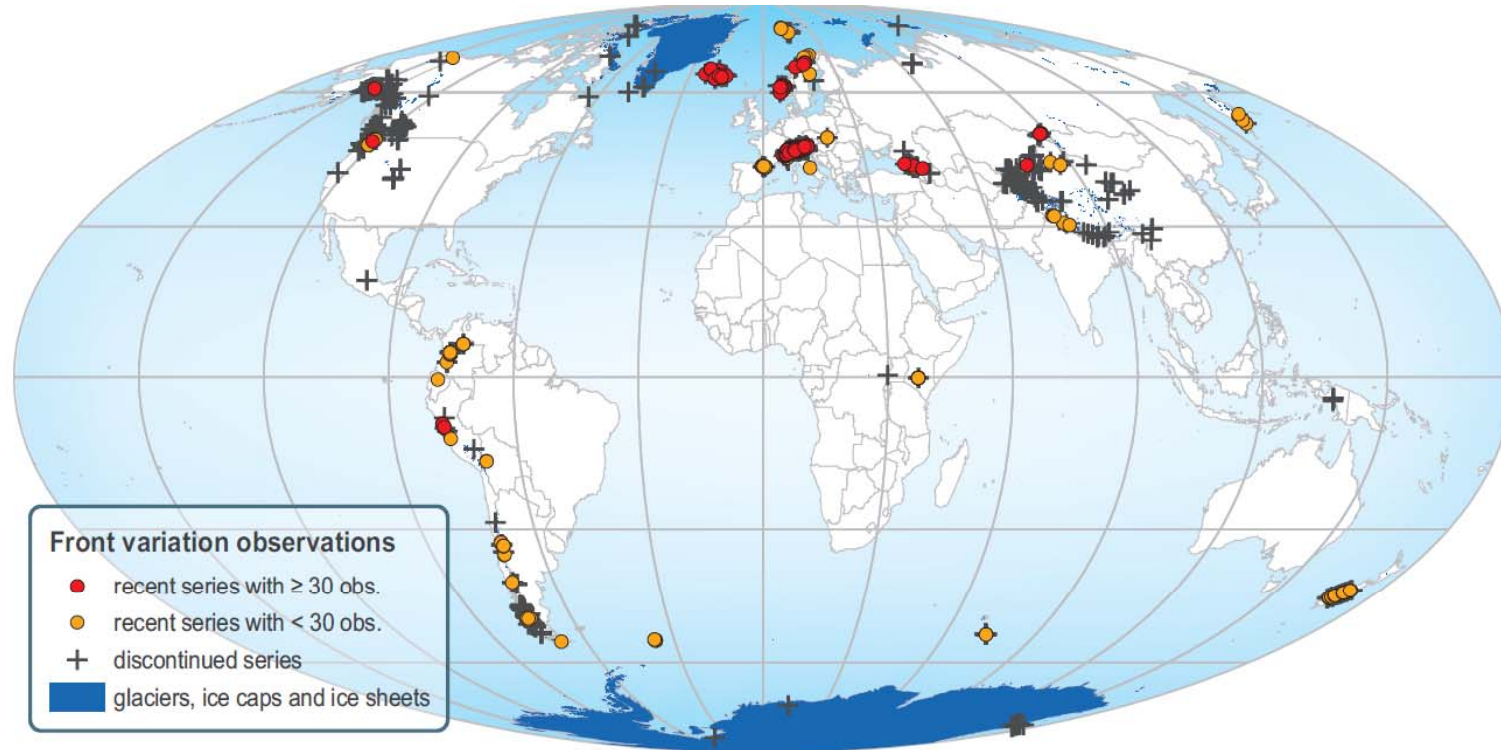


- Establishment of GCOS in **1992**: co-sponsored by WMO, UNEP, IOC-UNESCO and ICSU
- **UN Framework Convention on Climate Change** (UNFCCC), Article 5: 'Systematic Observation'
- Since 1 February 2006: **Swiss GCOS Office at Federal Office of Meteorology and Climatology MeteoSwiss**
- 3 Scientific Panels: '**Atmosphere**', '**Ocean**', '**Terrestrial**'
 - **Cryosphere**
Snow, Glaciers and ice caps, permafrost





ECV: Glaciers – A global view





„A high priority should be given to additional observations in data-poor regions and regions sensitive to change.“

GCOS Monitoring Principles #7, 2003



CATCOS

Capacity Building and Twinning for Climate Observing Systems

- Project financed by **Swiss Agency for Development and Cooperation (SDC)** as part of Swiss Fast-Start Financing
- **Objective:** Improvement of Climate Observing Systems in Developing and Emerging Countries
- **Duration:** Sep 2011 – Feb 2014



Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra

Federal Department of Home Affairs FDHA
Federal Office of Meteorology and Climatology MeteoSwiss



Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra

Swiss Agency for Development and Cooperation SDC



Atmospheric Domain



Universität Zürich UZH



Terrestrial Domain



Contribution to CATCOS

- **Atmospheric Domain**

Observations of **aerosols and greenhouse gases**

- Data publicly available international data centres

- **Terrestrial Domain**

Observations of **glacier monitoring data**

- Data publicly available at international data centre WGMS

- **Cross Cutting Domain**

Operation and maintenance of measurements
through trainings, support and outreach activities

- ✓ **WGMS Summer School 2013**

Capacity to produce, manage and analyze
glacier data





www.meteoswiss.ch/catcos

Dr. Sebastian Koenig

International Affairs Division

Federal Office of Meteorology and Climatology MeteoSwiss

www.gcoss.ch | sebastian.koenig@meteoswiss.ch