**EDUCATION**

**MSc. Public Administration-Quality Management Centro American Institute of Public Administration** February, 2017 – June, 2019

San José, Costa Rica

### MSc. Meteorology

**Russian Hydrometeorological Institute**

September, 1989 –August, 1995 Saint Petersburg, Russia

**PERSONAL INFORMATION**

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**LANGUAGES**

Spanish: Native

Russian: B2

English: B2

**JOB EXPERIENCE**

# Meteorological Network and Data Processing Department, Head

## From December 2008 to January 2013 From May 2015 - currently

Responsible for planning, directing, coordinating, organizing, and controlling technical and administrative activities related to the Meteorological Network and Data Processing. Key responsibilities include:

* Overseeing the geographic location, installation, maintenance of meteorological stations, data processing, quality control, and statistical analysis according to WMO and ICAO standards.
* Providing technical advice to institutional authorities on network operations and data processing.
* Managing work methods, systems, procedures, and projects while ensuring staff training and problem resolution.
* Representing the institution in national and international events, multisectoral commissions, and technical programs such as CIMO, WIGOS, WIS, and GAW.
	+ Supervising budget execution, inventory, and risk- reduction measures for meteorological station operations.
	+ Preparing regular progress reports on the Institutional Strategic Plan and departmental activities.
	+ Advising legal and HR departments on technical matters and personnel-related decisions.
	+ Promoting staff development and undertaking additional tasks as required.
	+ Representing the institution and professional staff at international meetings and within the IMN Fellowship Sub-Commission.

**Manager Aeronautical Meteorology Civil Aviation General Directorate** From August 2013 to May 2015

Advises the Director of Civil Aviation and Air Navigation on the quality of meteorological services for aviation. Key responsibilities include:

* + Ensuring compliance with national regulations, ICAO Annex 3, and WMO standards.
	+ Advising on resource mobilization and emergency response planning for operational security.
	+ Monitoring the implementation of a quality management system for aeronautical information (ISO standards and Human Factors principles).
	+ Reviewing regulations (RAC 03) to align with ICAO SARPs and WMO recommendations.
	+ Overseeing tasks of the Area World Forecast System and conducting biannual audits to ensure compliance with agreements between DGAC and IMN.
	+ Representing the Civil Aviation Directorate on the Meteorological Council.

**Meteorological Information Department** From February 2007 to July 2007 Senior Chief From August 2007 to November 2008, Chief

Responsible for planning and coordinating meteorology- related presentations and advising the public on topics like

climate change, El Niño, seasonal forecasts, and natural disasters. Key responsibilities include:

* + Reviewing and signing meteorological data certificates for external users.
	+ Advising the public and media on meteorological inquiries.
	+ Supervising the internal loan of documents and research materials.
	+ Managing and evaluating work methods, procedures, software, databases, and problem-solving processes.
	+ Proposing and assessing departmental policies, plans, and programs.
	+ Participating in meetings, seminars, and activities

with national and international organizations.

* + Performing additional tasks relevant to the role.

# National Meteorological Institute Department of Synoptic and Aeronautical Meteorology, Forecaster From November 1996 –

## January 2007

Coordinates and forecasts activities related to atmospheric observation at national and regional levels. Key responsibilities include:

* + Preparing synoptic meteorological and aeronautical forecasts for the country's zones and international airports.
	+ Producing marine forecasts for boats and disseminating forecasts to first responders and the public through various media.
	+ Analyzing meteorological maps, numerical models, and satellite images as part of forecast preparation.
	+ Providing verbal and written meteorological information to users and addressing media inquiries on atmospheric conditions.
	+ Issuing meteorological reports on significant or adverse phenomena and operating communication and satellite equipment to exchange meteorological data.
	+ Supporting aeronautical meteorology offices, updating manuals, and adhering to meteorological codes and procedures.
	+ Informing national risk management institutions, including the CNE and Emergency Operations Centre, about weather risks.
	+ Working on rotational schedules, including overtime, for emergencies caused by hydrometeorological phenomena.
	+ Signing administrative documents for MINAE as required.

**University of Costa Rica Geophysics Investigation Centre** From May 2000 to August 2003 Professor a.i.

Coordinates meteorological research activities through projects with students from related academic fields at the Geophysics Research Center (CIGEFI) of the University of Costa Rica. Participates in mini-congresses to present new research proposals, current topics, and project progress through speeches or posters.

**MEETINGS**

Extensive experience in international and national meteorological activities, with key roles including delegate, representative, coordinator, and speaker. Highlights:

### International Representation:

* + - Participated in TECO-2024 (Austria), INFCOM-

3 (2024), SERCOM-3 (2024), RECO (2023,

Jamaica), and multiple WMO-related events since 2002.

* + - Served as Chief Delegate for Costa Rica at WIGOS and CIMO meetings.
		- Focal Point for WMO's WIGOS and OSCAR/Surface programs since 2015.

### Leadership Roles:

* + - Coordinator of the WIGOS Regional Center for AR-IV (since 2021).
		- Moderator and speaker at conferences on quality assurance, meteorological stations, and aeronautical meteorology.

### National Contributions:

* + - Coordinated early warning systems and water adaptation programs.
		- Advised on climate change vulnerabilities and chaired delegations for Costa Rica.
		- Frequent participant in science fairs and training programs.

### Training & Expertise:

* + - Speaker and trainer on aeronautical meteorology and risk prevention.
		- Active involvement in developing national and regional meteorological capacities.

This record showcases a strong commitment to advancing meteorological science and collaboration at both national and international levels.

**TRAININGS**

**November 2024:** The 3rd RWC Global Workshop. South Africa.

**October 2024:** ISO 9001:2015

**September 2024:** Internship: “Implementation of the Regional Centers RA-IV of the World Meteorological Organization.”

**August 2024:** WIGOS. Regional Training Center of Argentina. Online.

**November 2022:** Hybrid Workshop for RA IV Regional WIGOS Centers. Online.

**December 2022:** Hybrid Workshop for Regional WIGOS Centers in RA IV. In person.

**2019:** Development and publication of a systematic manual for the national implementation of WIGOS.

**November 2018:** Walking Towards Equality. Online. Costa Rica.

**May 2018:** Workshop: Automatic Meteorological Stations 3D-PAWS. El Salvador.

**December 2016:** General Administration II. UNED. Costa Rica. **November 2016:** Course: Internal Audit. EL INTE/ISO 9001:2015 Quality Management Systems. Costa Rica.

**November 2016:** Course: The INTE/ISO 9001:2015 Quality Management Systems Standard. Costa Rica.

**August 2016:** General Administration I. UNED. Costa Rica. **July 2015:** Workshop: World Integrated Global Observation System (WIGOS) of the World Meteorological Organization. Barbados.

**November 2014:** Course: Advanced Air Navigation Inspector (Auditor). El Salvador.

**June 2014:** Course: Operative Security Management. Costa Rica.

**May 2014:** Course: Basic Air Navigation Inspector. El Salvador.

**April 2014:** Training: Internal Control Law. Costa Rica. **September 2013:** Course: General Directorate of Civil Aviation Induction. Costa Rica.

**November 2011:** Course: Strategic Planning, Identification, Formulation, and Evaluation of Projects in Public Investment. Costa Rica.

**October 2009:** Course: Operation and Maintenance of Meteorological and Hydrological Automatic Stations. Chile. **September–December 2006:** Course: Meteorology (Numerical Models, Long-term Forecasts, and Climate Change). Japan.

**November 2005:** Climate Forum III: Central America Climate Forum. Guatemala.

**November 2005:** Workshop: Atmospheric Detection of Lightning System. Costa Rica.

**November 2004:** Course: Aeronautical Meteorology. El Salvador.

**April 2004:** Workshop: Revitalization of the Consultant Technical Committee for Air Emergency (CATEA). Costa Rica. **November 2003:** Training Seminar: Regions III and IV: Chart- Controlled Code. Costa Rica.

**November 2002:** Meeting: Follow-up on the Recommendations of the Special Implementation Project (SIP) COM/MET CAR. Belize.

**April 2002:** Workshop: National Commission for Risk Prevention and Emergency Response. Agreement for the Use and Management of Meteorological Information. Costa Rica. **December 2001:** Regional Seminar, Part III: Training on the Interpretation of Satellite Data in Meteorological Applications. NOAA/NESDIS Project. Costa Rica.

**February 2001:** Course: Preparation for Climate Variability and Extreme Events in Mesoamerica. Costa Rica.

**November 2000:** Course: Natural Disasters and Their Social Impact in Central America and Mexico. Costa Rica.

**April 2000:** Regional Seminar, Part II: Utilization of Satellite Data in Meteorological Applications for Areas III and IV. NOAA/NESDIS Project. Costa Rica.

**December 1999:** Regional Seminar, Part I: Utilization of Satellite Data in Meteorological Applications for Areas III and

IV. NOAA/NESDIS Project. Costa Rica.

**November 1999:** Workshop: Model for a Limited Area. United States of America.

**July 1999:** Speaker: Tenth Technical and Agricultural Congress. "The Impact and Consequences of El Niño and La Niña in Agrometeorology." Costa Rica.

**July 1998:** Workshop: System Performance: VSAT/Star 4. Belize.

**THESIS EXAMINATION**

Bachelor's Degree. Methodological proposal for the implementation of a Quality Management System for the Pluviometry Network of the National Meteorological Institute, located in the Central Region of Costa Rica. September, 2022.

Bachelor's Degree. Collection, storage, quality control and automated alerts of meteorological data obtained from automatic weather stations operated by the national meteorological institute of Costa Rica. September, 2024.

 **WMO REPRESENTATIONS**

Expert Network, Joint Technical Commission. GAW Country Contact, Research Board.

National Focal Points for Codes and Data Representation

Matters,INFCOM.

National Focal Points for WIGOS, INFCOM.

National Focal Points for the WIGOS Data Quality Monitoring System (WDQMS), INFCOM.

National Focal Points on WIS Matters, INFCOM.

Instruments and Methods of Observation Programme (IMOP). WIGOS Regional Center, Manager, RA IV, INFCOM.

Vice-Chair: RA IV Infrastructure Committee.

Task Team on Classifications (TT-Class): Member.

**APTITUDES**

* Leadership and teamwork.
* Ability to work under pressure.
* Change management and organizational skills.
* Critical judgment and disciplined work methods.

**REFERENCES**

Dr. Humberto Miranda Rivas, Director Postgraduate Academic, Central American Institute of Public Adminsitration (CAIPA), e-mail: hmiranda@icap.ac. cr, phone: 506-60626369.

Dr. Marcial Garbanzo Salas, Costa Rica´s University, Planetary Sciences and Geophysics-Space Research Center, e-mail: mgarbanzopcm@gmail.com, phone: 506-84739762.

Inspector Manuel Protti Ramírez, General Directorate of Civil Aviation (GDCA), Aeronautical Operations Unit, e-mail: mprottiramirez@gmail.com, phone: 506-85673941.