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Autoridad Regulatoria Nuclear  
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## Improvements made and proposed with a focus on the upcoming recapitalization of I02AR

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# *Improvements made and proposed with a focus on the upcoming recapitalization of I02AR*

## *ARN - CTBT*

**The NUCLEAR REGULATORY AUTHORITY (ARN)** is an organization belonging to Presidency of the Nation.

### **Mission and responsibilities:**

- Control
- Regulation
- Supervision of nuclear activity.

Its headquarters are located in Capital Federal, Buenos Aires.



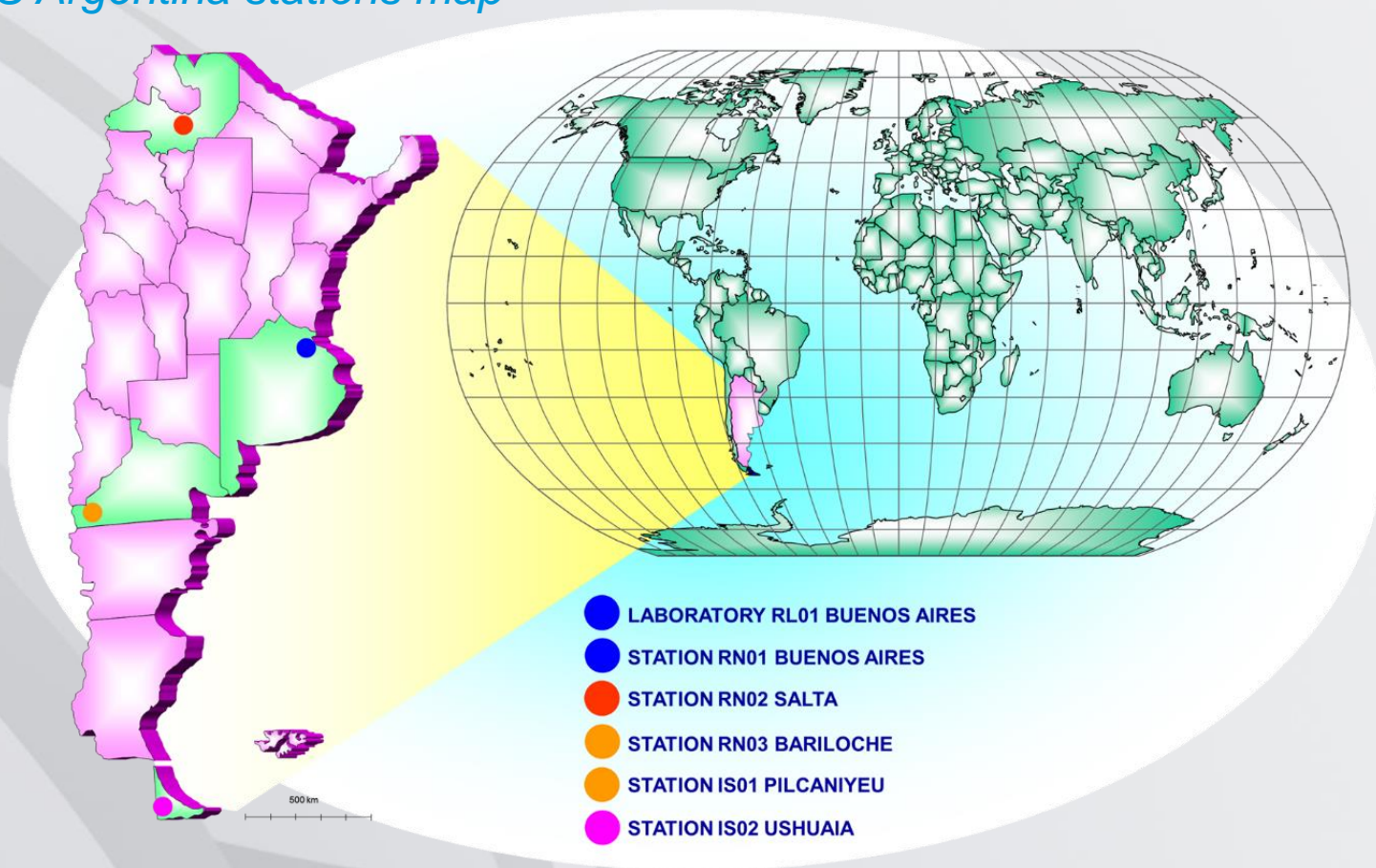
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## IMS Argentina stations map

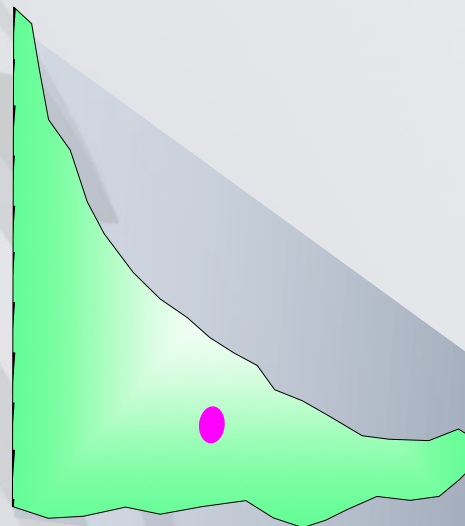


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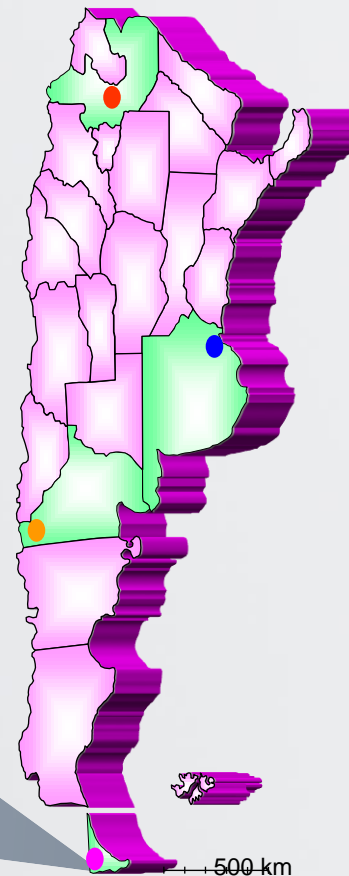
## I02 Location

Tierra del Fuego island has only three cities.

- Rio Grande
- Tolhuin
- Ushuaia



**I02**



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## *IS02 Location – CRF*



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## *IS02 Location – H1*



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## *IS02 Location – H5*



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## IS02 Location – All sites distribution





# *Improvements made and proposed with a focus on the upcoming recapitalization of I02AR*

*Weather conditions – Winter in July 2024*



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*Weather conditions – Winter in July 2024*



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## *Weather conditions - Different seasons*



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*Weather conditions – Fence breakage and closed access due to fallen trees*



This year marks 20 years since the start of construction of the station, and based on technological advances and the development of new technologies in the detection system, IS02 has been included in the list of stations that will receive equipment renewal.



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## *Electrical improvements – TEGs installation in 2004*



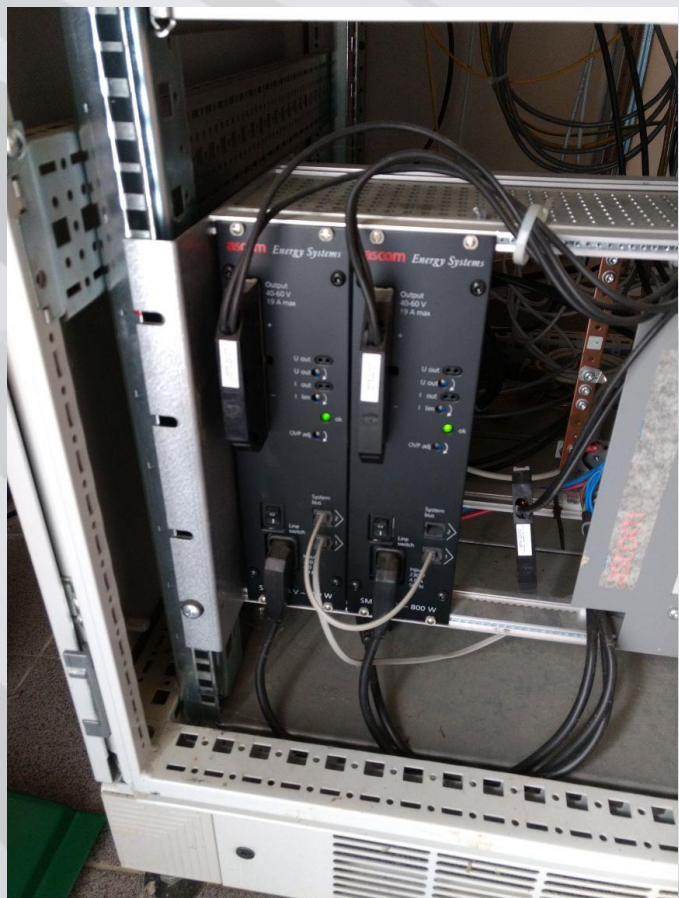
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Electrical improvements – Battery pack and converter 48v DC to 12v DC



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Electrical improvements – 220V DC to 48V DC Transformer – TEGs out of use





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## Electrical improvements – Electrical substations location



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## *Infrastructure improvements – Protection pipes*



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## *Infrastructure improvements – Auxiliary Generator*



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## Infrastructure improvements – Auxiliary Generator



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## *Infrastructure improvements – Auxiliary Generator*



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## *Infrastructure improvements - Warehouse*





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## *Infrastructure improvements - Warehouse*



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## *Infrastructure improvements – Warehouse with toilet*



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## Infrastructure improvements - Biodigestor



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## Infrastructure improvements – Flooded vaults in 2006



# *Improvements made and proposed with a focus on the upcoming recapitalization of I02AR*

## *Infrastructure improvements – Vaults underground in 2006*



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Infrastructure improvements – Fiberglass vaults installed in 2010



# *Improvements made and proposed with a focus on the upcoming recapitalization of I02AR*

*Infrastructure improvements – Concrete platform for new stainless steel vaults to be installed in 2025*



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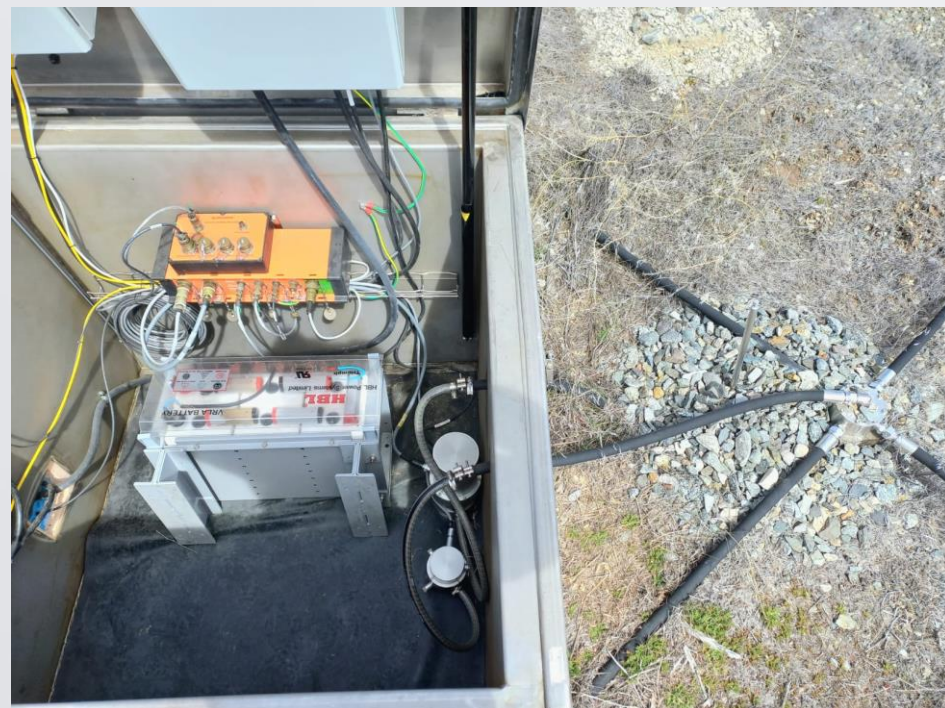
## IS01 Pilcaniyeu Station - Arrays





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## IS01 Pilcaniyeu Station - Stainless steel vaults





**Thanks for your attention**

Mr. Gonzalo Isaias



[www.argentina.gob.ar/arn](http://www.argentina.gob.ar/arn)