

BRAZIL

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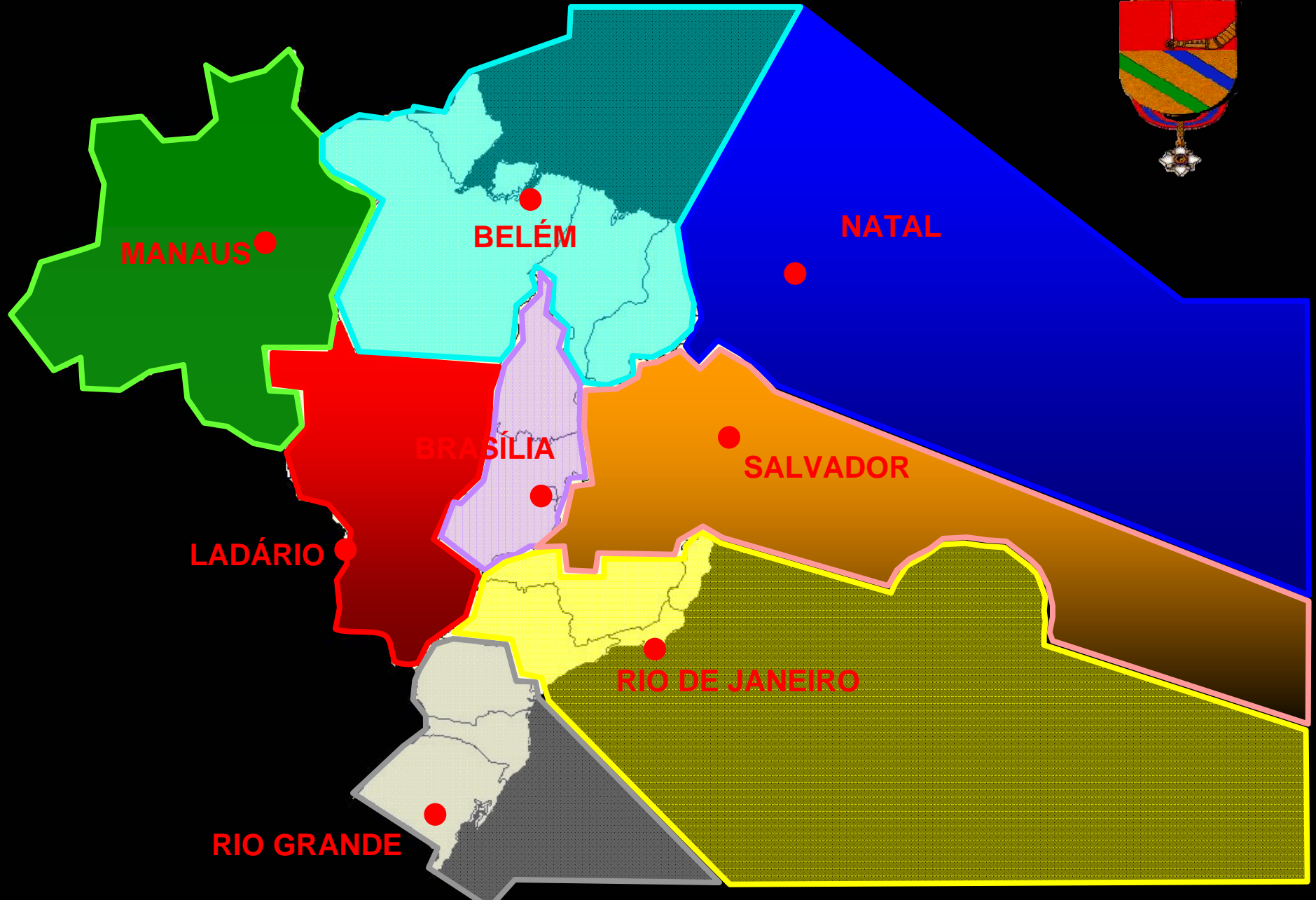




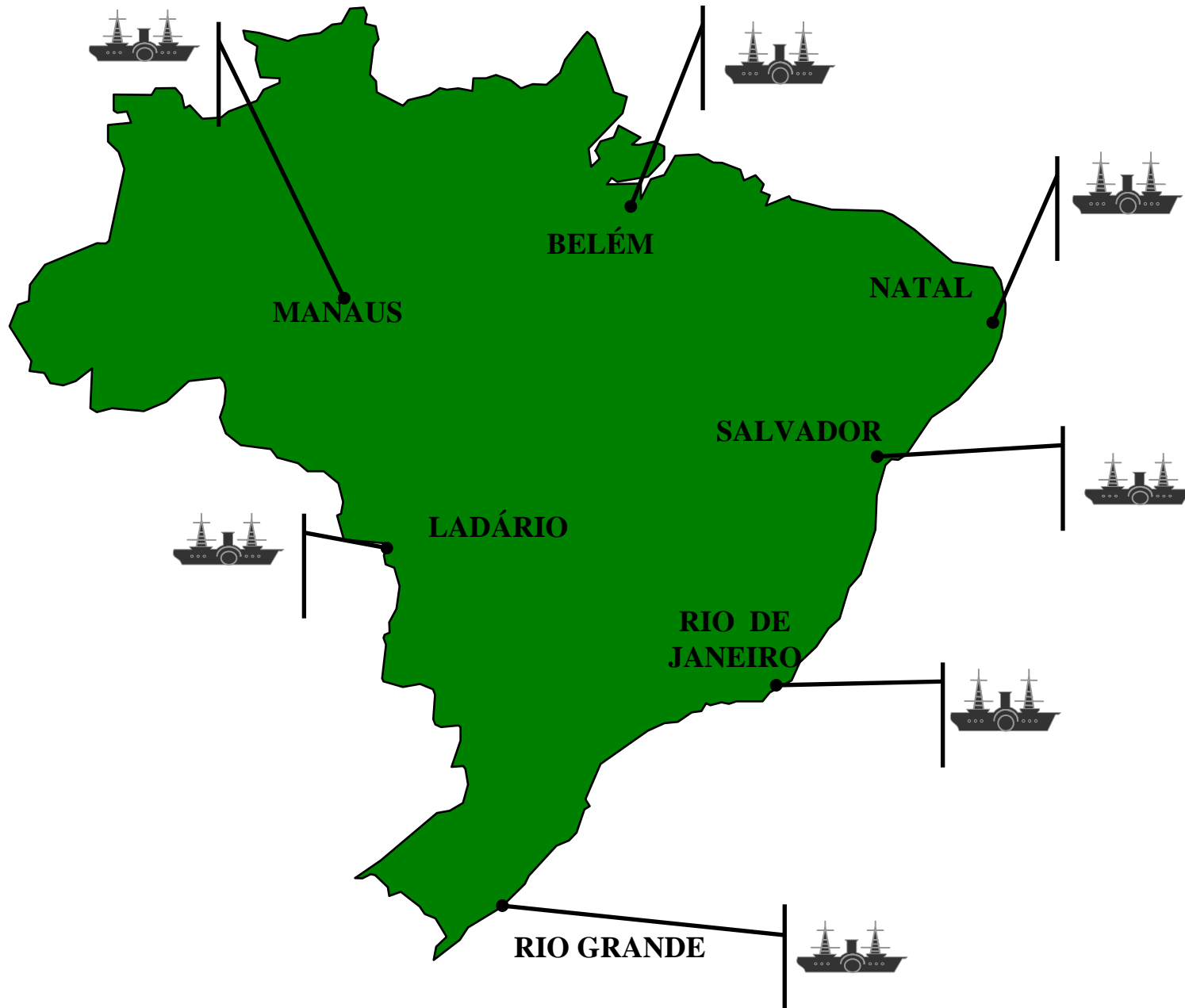
SUMMARY

- 1. SAR SYSTEM**
2. BRAZILIAN GROUND SEGMENT
3. BRAZILIAN COSPAS-SARSAT TRAINNING
4. FAIRY TALE

BRAZILIAN MRCC



NAVY SRU



BRAZILIAN NAVY SAR UNITS

TOW BOAT "GUILHEM"

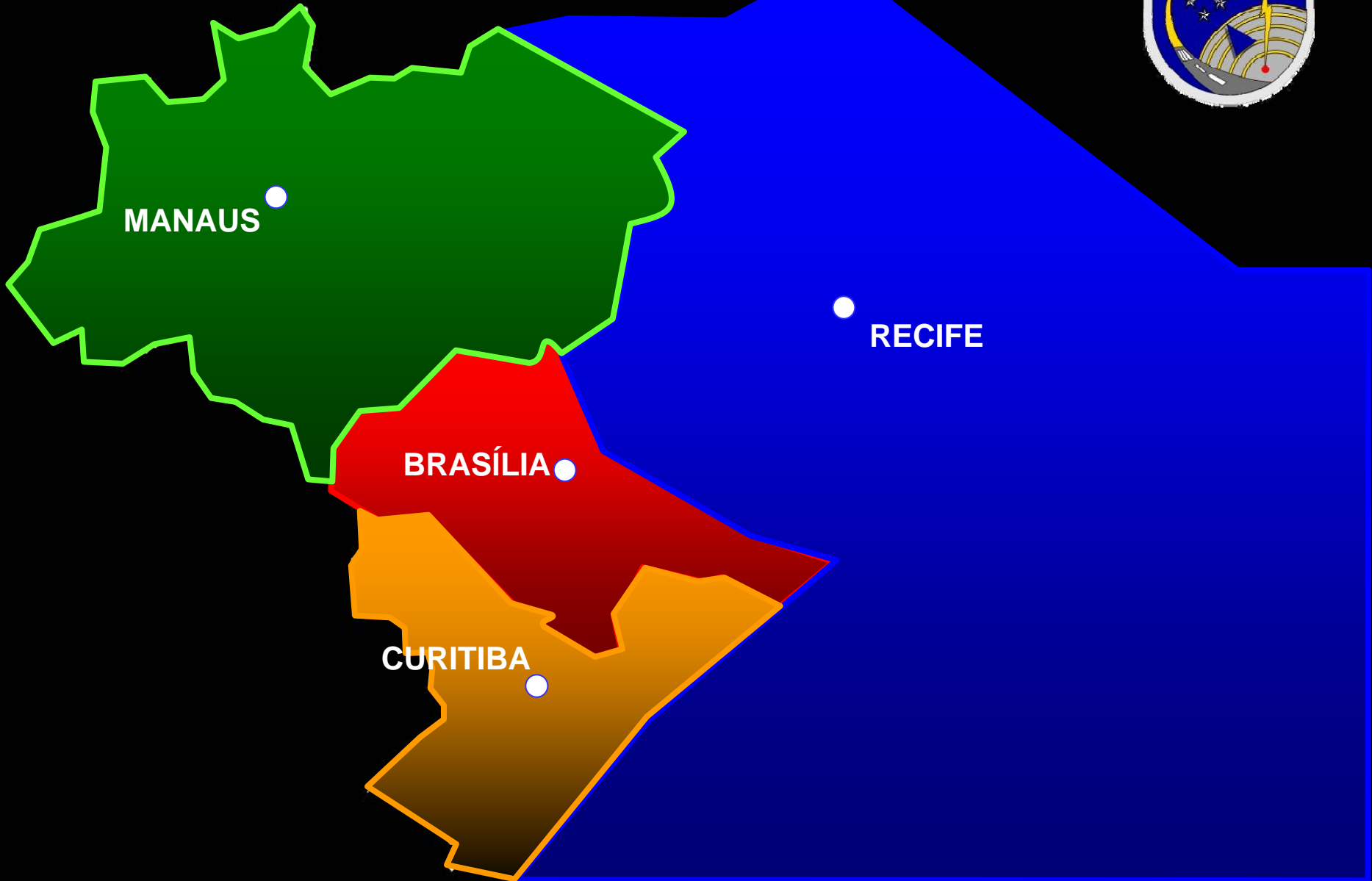


BRAZILIAN NAVY SAR UNITS

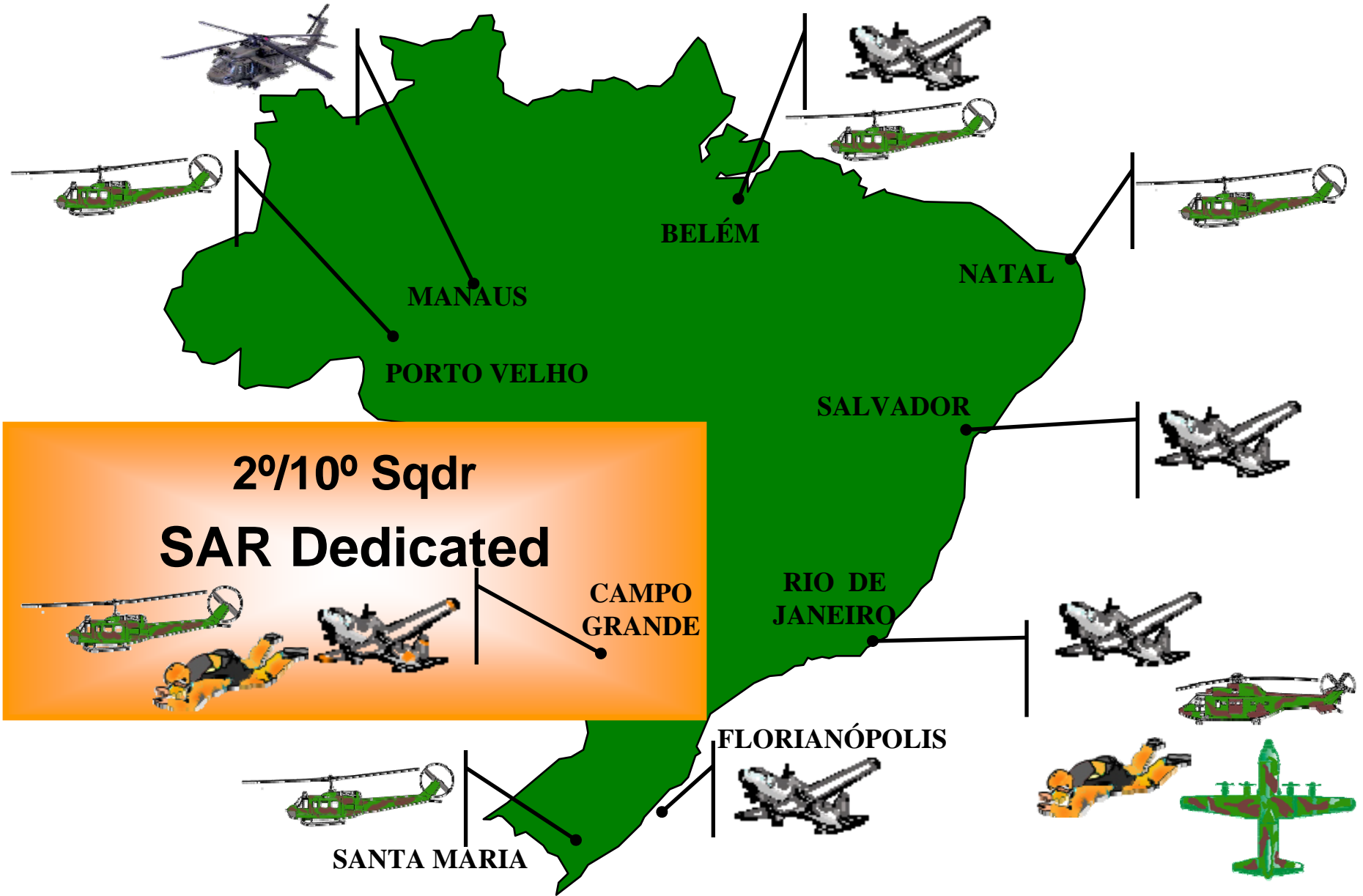


PATROL BOAT "GRAJAÚ"

BRAZILIAN ARCC



AIR FORCE SRU



BRAZILIAN AIR FORCE SAR UNITS



EMB110 SAR BANDEIRANTE & PARAJUMPERS

BRAZILIAN AIR FORCE SAR UNITS



EADS CASA 295

BRAZILIAN AIR FORCE SAR UNITS



C-130 HERCULES

BRAZILIAN AIR FORCE SAR UNITS



AS332 SUPER PUMA

BRAZILIAN AIR FORCE SAR UNITS



H-60 BLACK HAWK





SUMMARY

1. SAR SYSTEM
2. BRAZILIAN GROUND SEGMENT
3. BRAZILIAN COSPAS-SARSAT TRAINNING
4. FAIRY TALE
5. Q & A



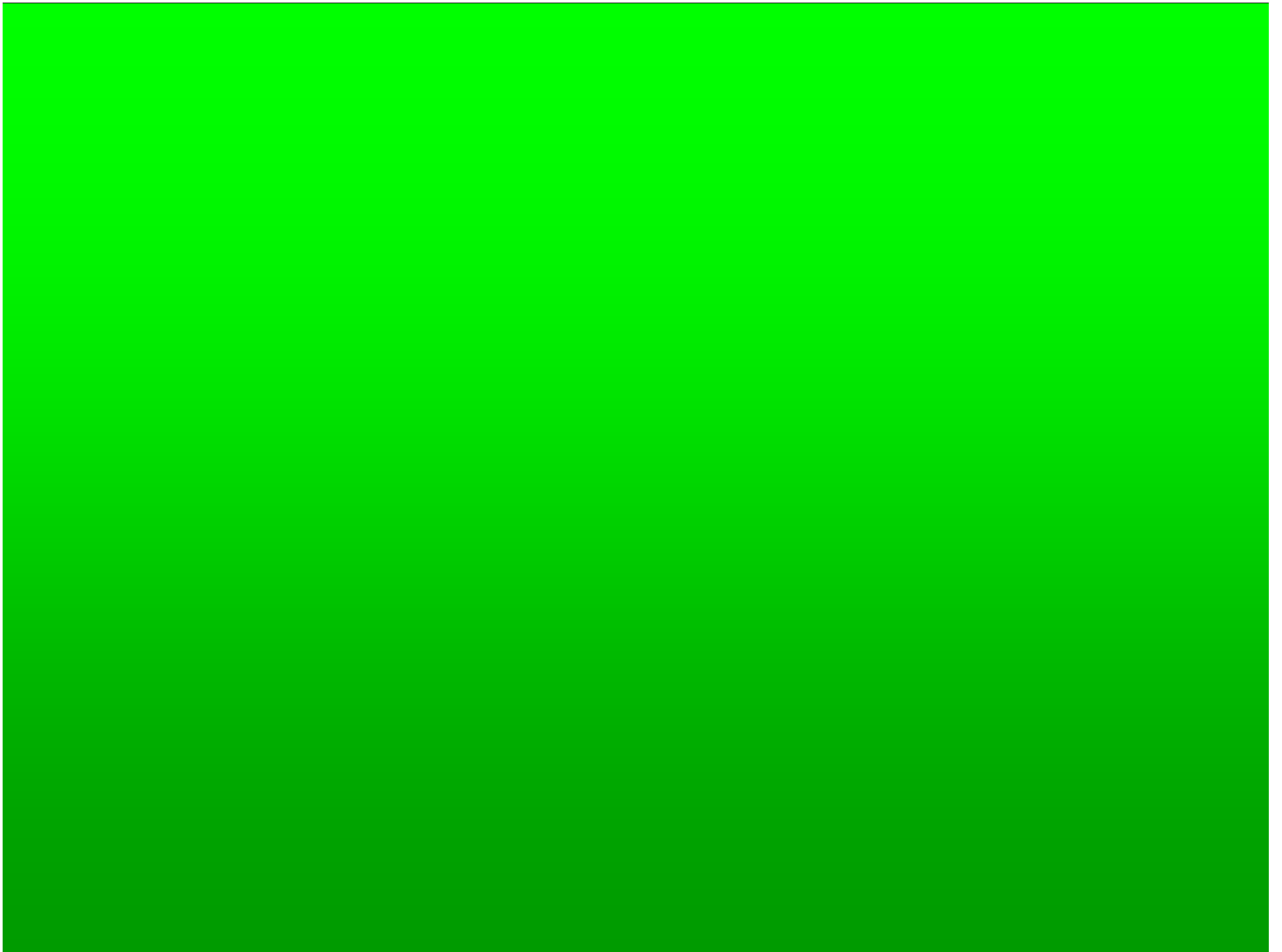




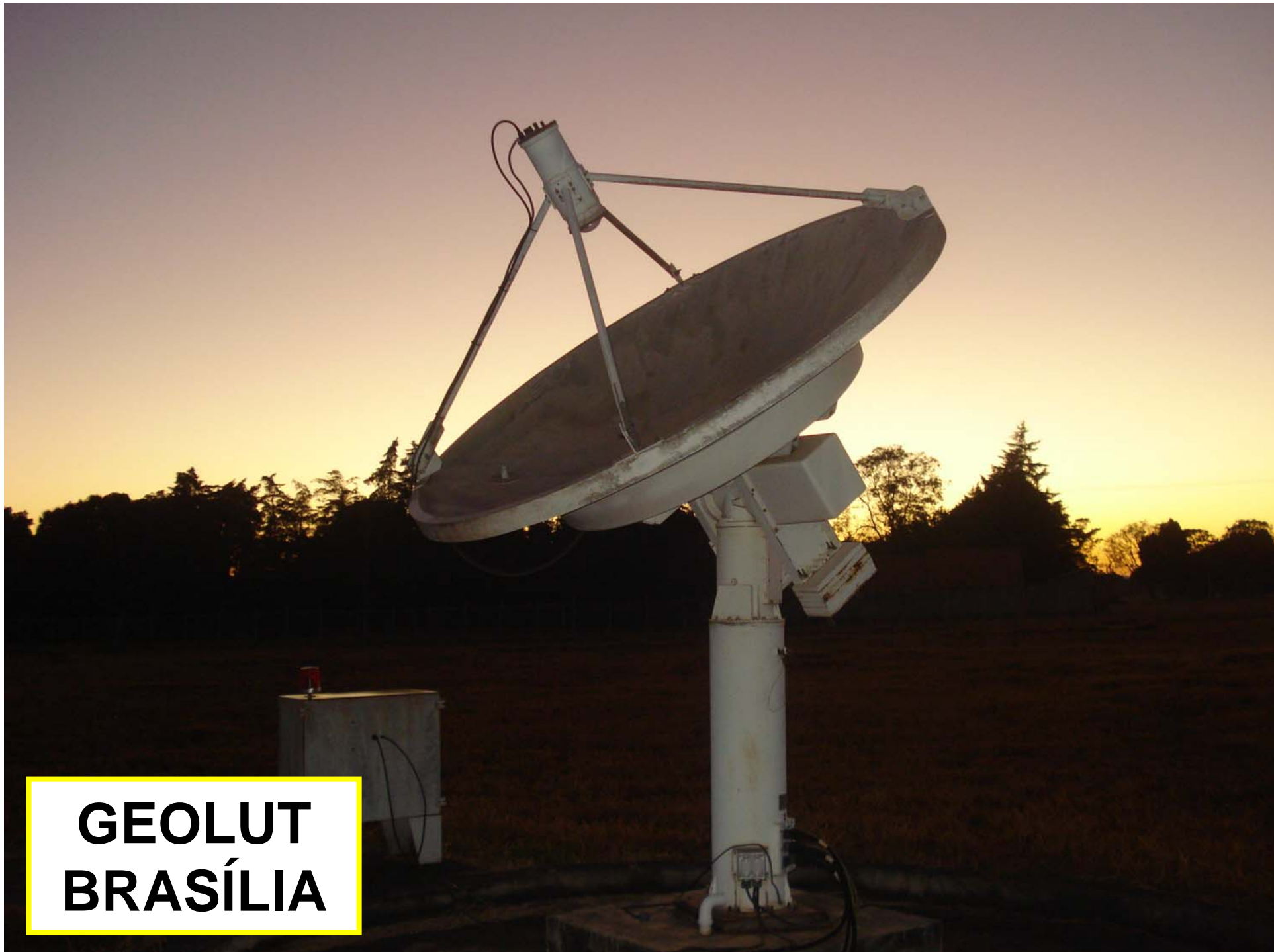


Image © 2009 TerraMetrics

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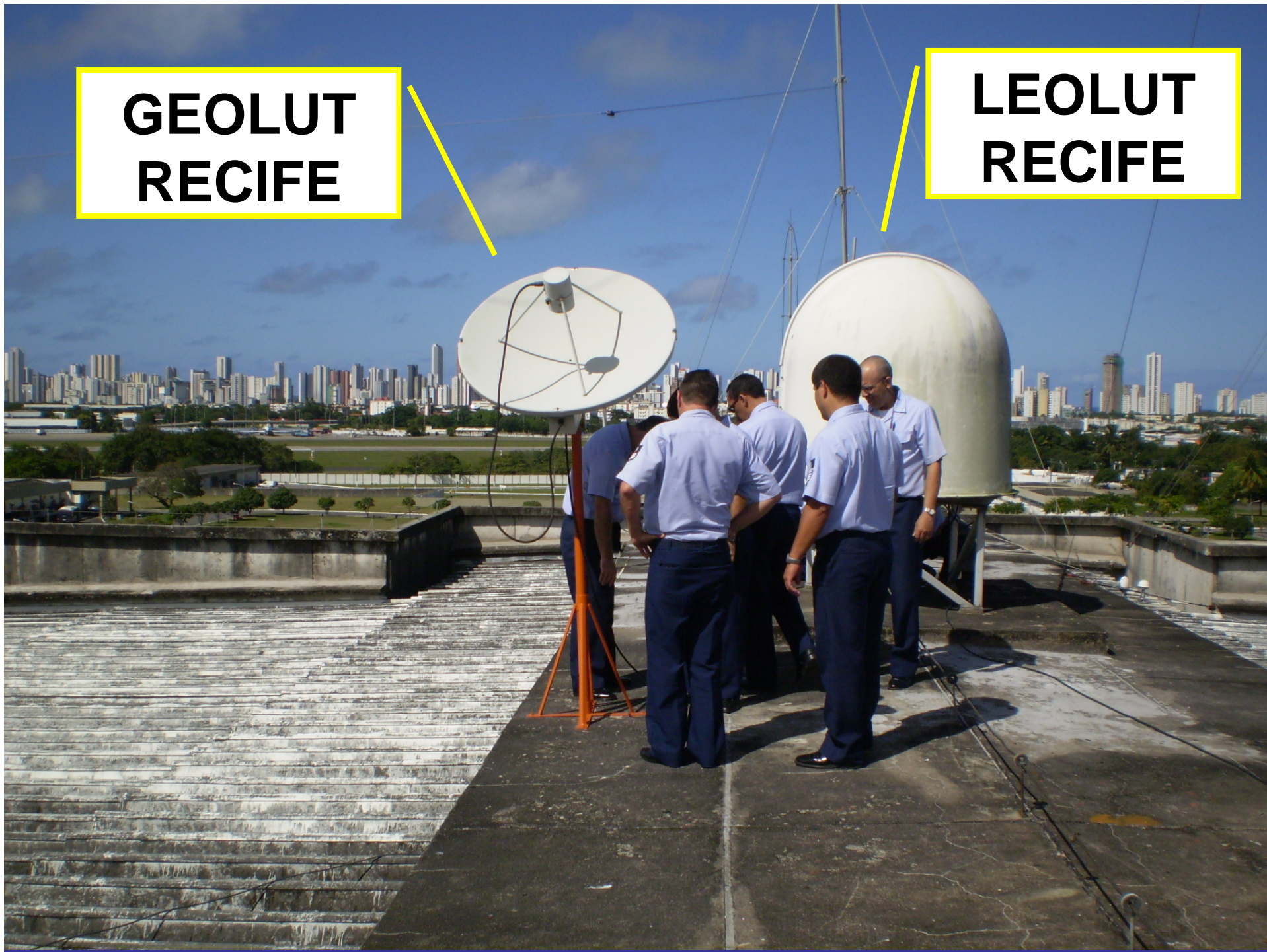
**LEOLUT
BRASÍLIA**



**GEOLUT
BRASÍLIA**

**GEOLUT
RECIFE**

**LEOLUT
RECIFE**



LEOLUT MANAUS





BUSCA E SALVAMENTO

BRMCC

RCCBR

SISSAR

SISTEMA INTEGRADO DE SOCORRO E SALVAMENTO

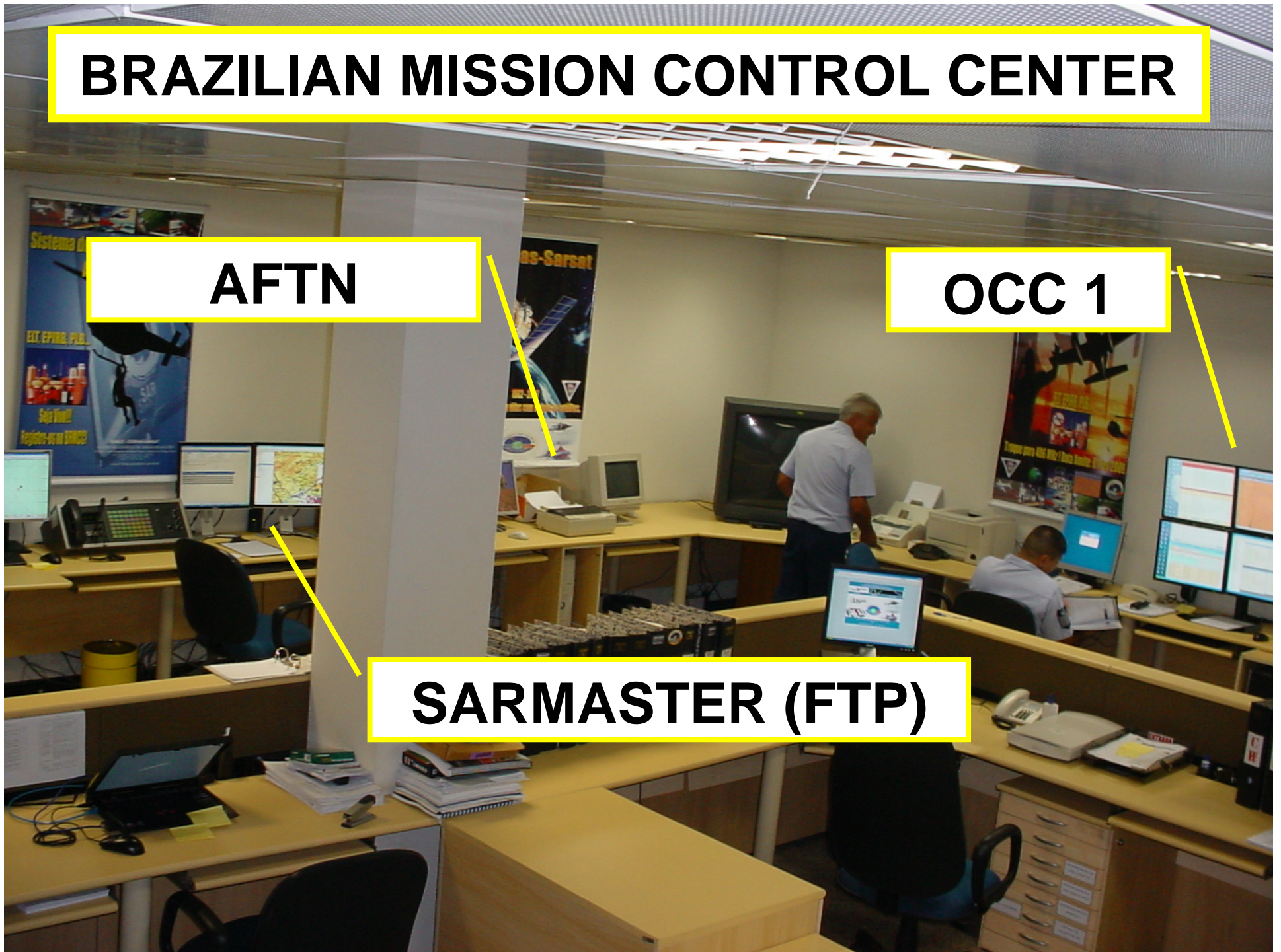


BRAZILIAN MISSION CONTROL CENTER

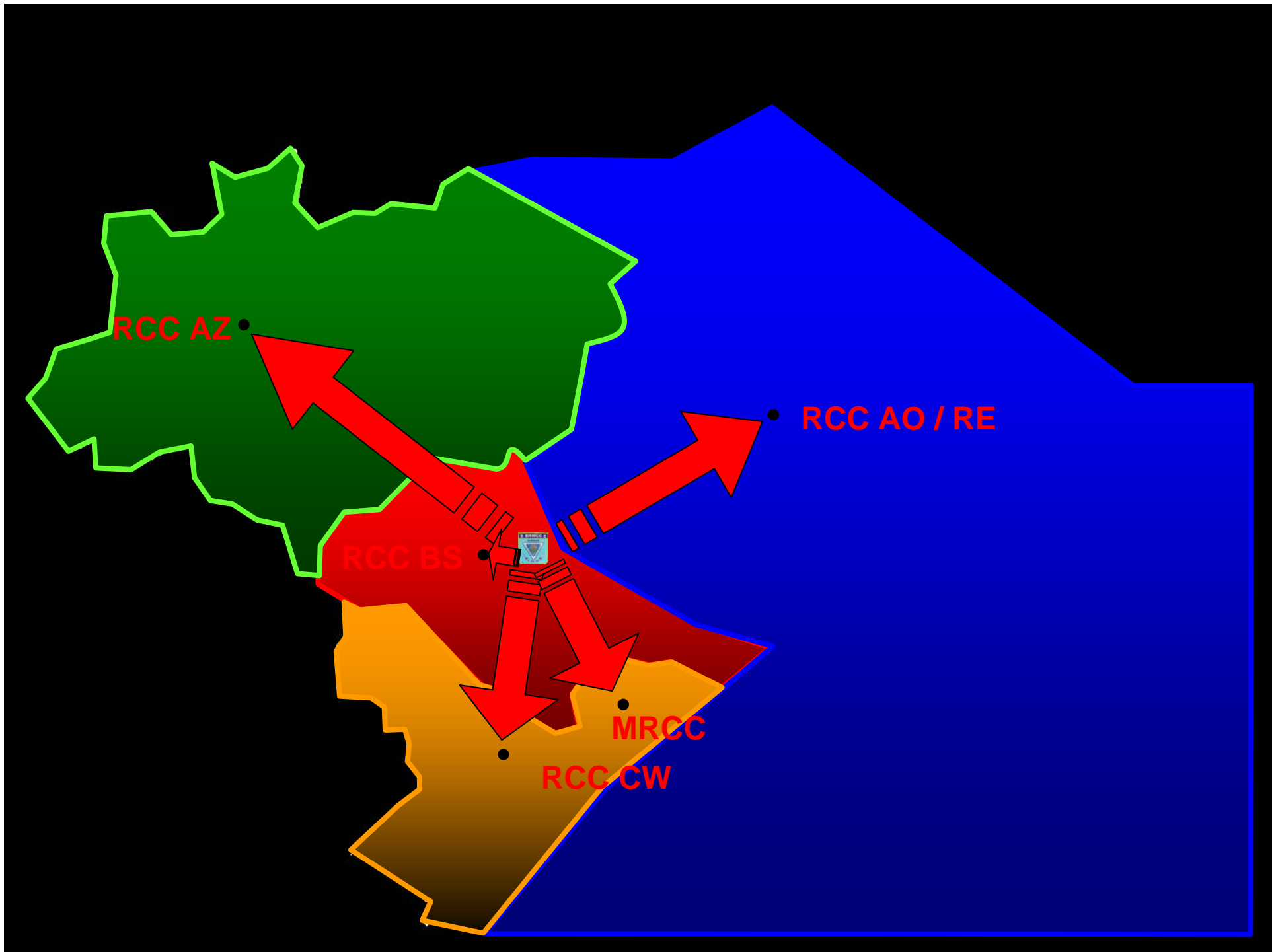
AFTN

OCC 1

SARMASTER (FTP)









BRAZILIAN REGULATORY STATUS



Brazilian National Civilian Aviation Agency

“After January 1st, 2009

all the ELT installed in aircraft

registered in Brazil

MUST OPERATE

on the 406 MHz frequency.”

Sistema de Busca e Salvamento Aeronáutico

ELT, EPIRB, PLB...

Troque para 406 MHz ! Data limite: 01 Fev 2009.

Sistema de Busca e Salvamento Aeronáutico

ELT, EPIRB, PLB...

**Seja Vivo!!!
Registre-os no BRMCC!**

BRMCC - COSPAS SARPAT
CENTRO DE CONTROLE DE MISSÃO BRASILEIRO
Principais Equipamentos de Busca e Salvamento e Controle de Tráfego Aéreo
Av. Cristóvão Colombo, 11 - 40000-000 - Curitiba - PR
e-mail: brmcc@cindaeta1.aer.mil.br

Cospas-Sarsat

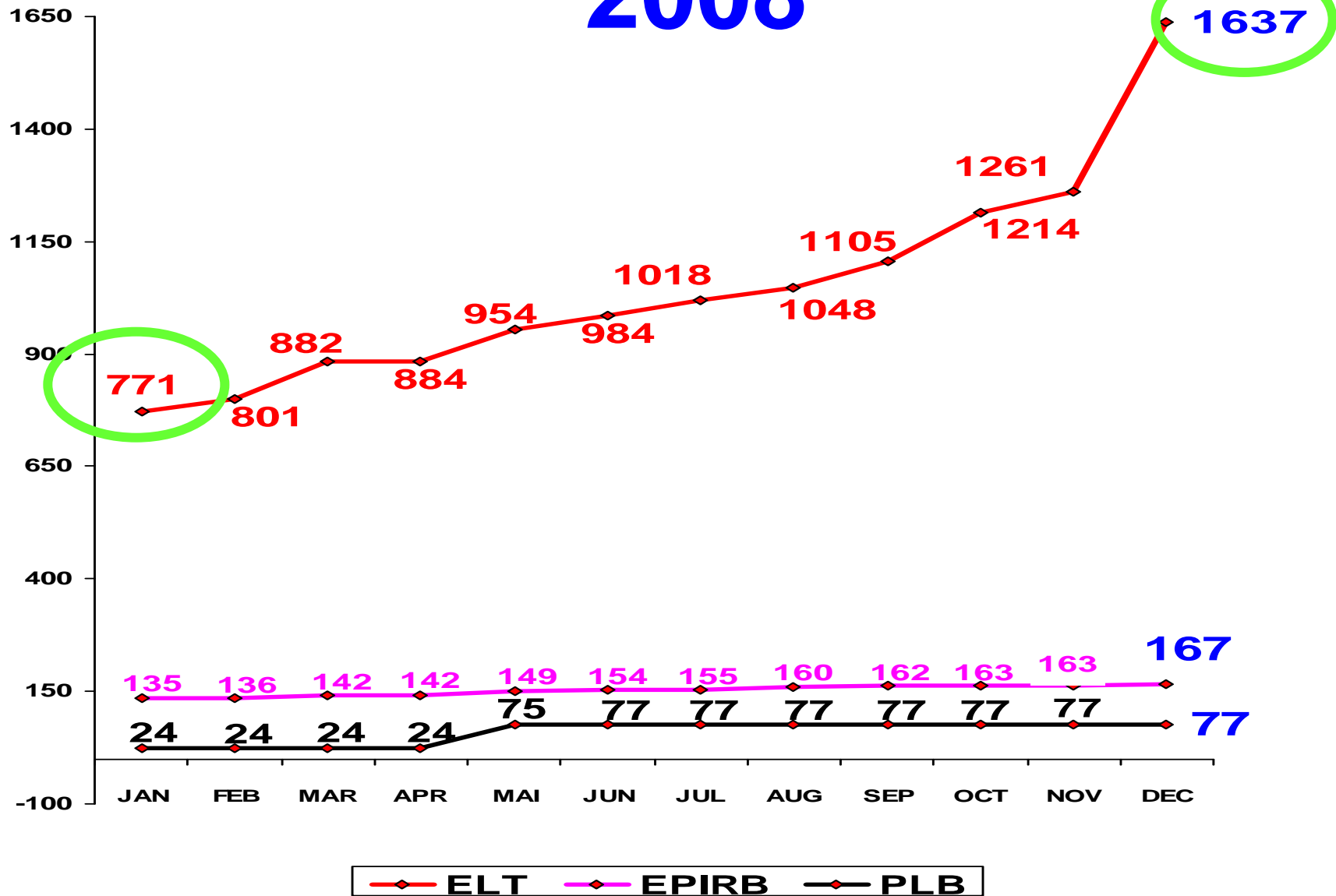
1982 - 2007
25 anos salvando vidas com a ajuda de satélites.

ELT, EPIRB... SEJA VIVO ! TROQUE PARA 406 MHz !

121.5 MHz

BRMCC - CENTRO DE CONTROLE DE MISSÃO BRASILEIRO
Telefax: 61 3365-2964 e-mail: brmcc@cindaeta1.aer.mil.br

BRAZILIAN 406MHz BEACON REGISTRY 2008





SUMMARY

1. SAR SYSTEM
2. BRAZILIAN GROUND SEGMENT
3. **BRAZILIAN COSPAS-SARSAT TRAINING**
4. FAIRY TALE



TRAINNING



BASIC SAR COURSE

COSPAS-SARSAT COURSE

STRUCTURE

4 WEEKS

- C/S SYSTEM
- MCC OPS
- RCC COMMS

TARGET

COMM SPEC
MCC OPERATORS

GRADUATED (2008)

20 OPERATORS

FTP LOCATION





SUMMARY

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4. FAIRY TALE





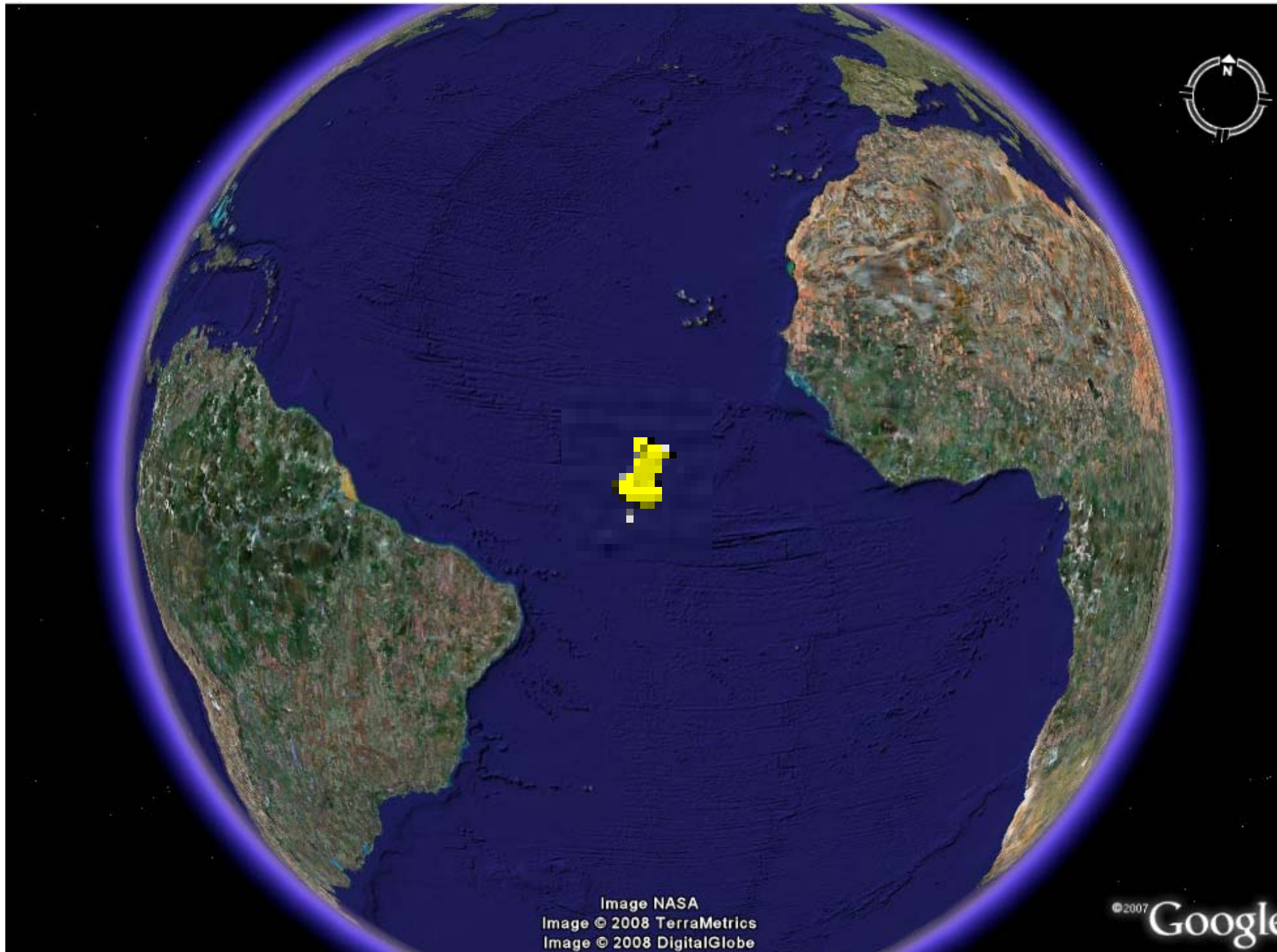


Image NASA
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Image © 2008 DigitalGlobe

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MAY 16th, 08 / RECIFE - BRAZIL OCEANITE CASE



- **08:15** JOSE PIZA ASKED FOR HELP
- MRCC NORTHEAST + ARCC ATLANTIC
- CONTACT BY IRIDIUM PHONE
- **BROKEN ARM AND RIBS**
- **“FOUND”** A DROGUE



MAY 16th, 08 / RECIFE - BRAZIL OCEANITE CASE



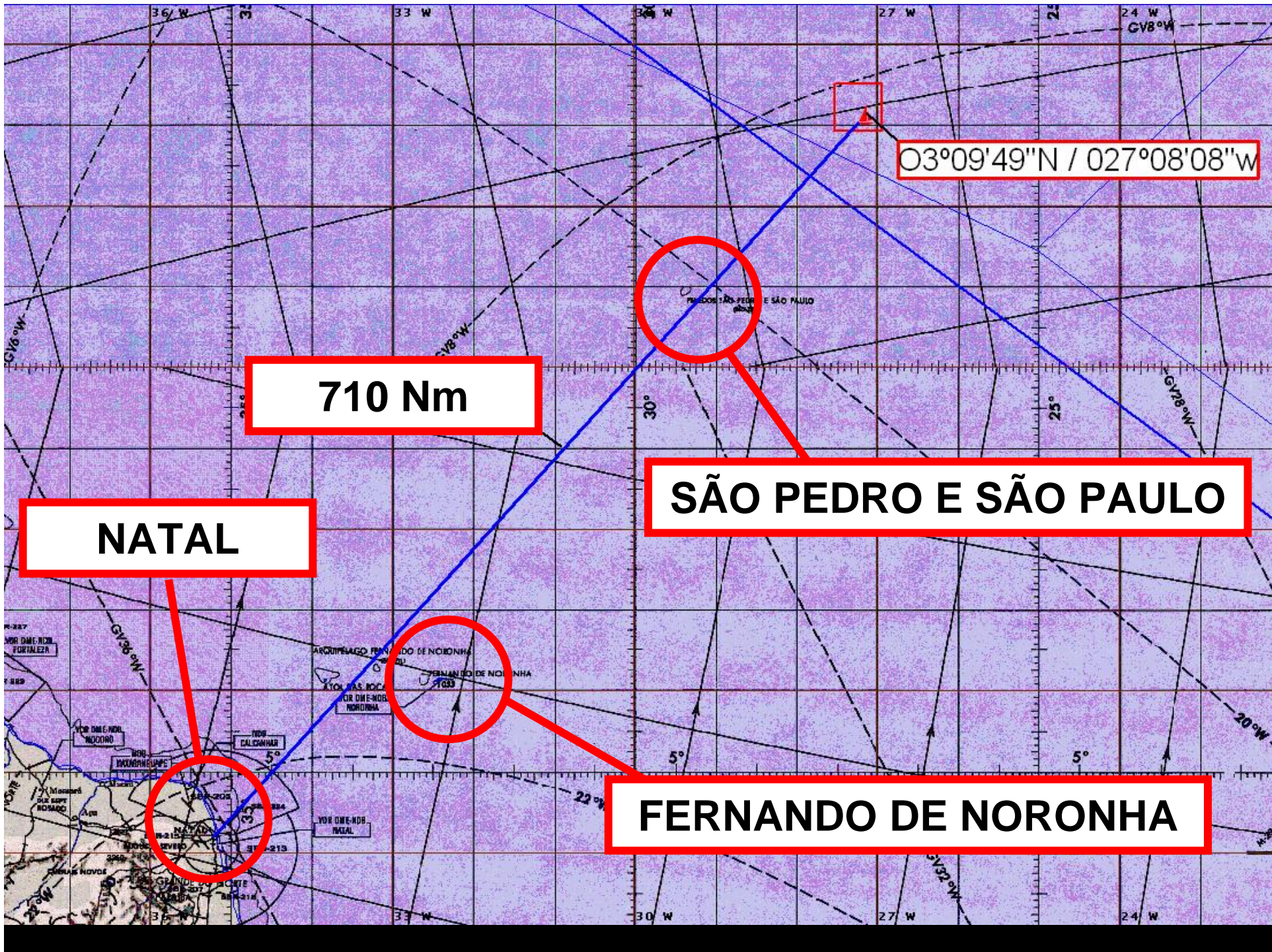
- 11:00 “FOUND” A 406 EPIRB
- 11:03 GEO RECIFE + GEO BRASILIA
- 12:26 LEO RECIFE
 - POINT A: SRR SENEGAL
 - POINT B: SRR BRAZIL



MAY 16th, 08 / RECIFE - BRAZIL OCEANITE CASE



- 13:09 BRMCC SENT **915 SIT MESSAGE**
 - SPMCC, FMCC AND USMCC
- **TASKED:**
 - MERCHANT VESSEL KYLA
 - NAVY PATROL
 - AIR FORCE C-130 HERCULES



03°09'49"N / 027°08'08"W

710 Nm

SÃO PEDRO E SÃO PAULO

NATAL

FERNANDO DE NORONHA



MAY 16th, 08 / RECIFE - BRAZIL OCEANITE CASE



- AFTER 18:00 – **LOST SIGNAL AND CONTACT**
- **22:31 RESCUED** BY MERCHANT SHIP KYLA
 - KYLA => TRANSMAR I => NPB GRAUNA
- MAY 21st, 08 : **ARRIVED AT NATAL, BRAZIL**





"...that others may live!"