





AIR FIREFIGHTING





GOAL

Understand MAFFS II and KC-390
Millennium operation in Brazilian Air
Force



AGENDA



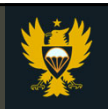
HISTORY



OPERATION



ADDITIONAL SUPPORT MISSIONS



AGENDA



HISTORY



OPERATION



ADDITIONAL SUPPORT MISSIONS

MAFFS



MODULAR AIRBORNE FIREFIGHTING SYSTEM



2006 – MAFFS I (C-130)



2006 – MAFFS I (C-130)

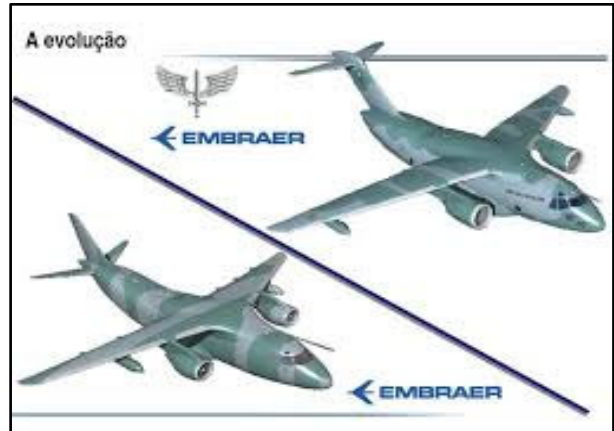


2006 – MAFFS I (C-130)



2006 – MAFFS I (C-130)





- FAB OPERATIONAL NEED
- EMBRAER PROPOSAL
- *Latin America Aero & Defence (LAAD)*, in 2007





SEP/2019



2023 – MAFFS II (KC-390)



2023 – MAFFS II (KC-390)

FIRE FIGHTING

Roll-on / Roll-off MAFFS 2





- MTOW: 87,000 KG
- MAX PAYLOAD: 26,000 KG
- MAFFS EQUIPMENT: 6,642 KG
- WATER: 3,000 GAL
- PRESSURE: 1,200 PSI
- MAX ALTITUDE: FL 360
- MAX SPEED: 300 KCAS / 0.8 M
- DROP SPEED: $V_{REF} + 5$ (~ 140 KT)
- DROP HEIGHT: 150 FT
- AT / AP DISENGAGED



AGENDA



HISTORY

OPERATION

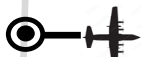
ADDITIONAL SUPPORT MISSIONS



MAFFS

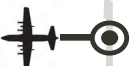
MAFFS I (2006)

TAIM ECOLOGICAL
RESERVE 2008



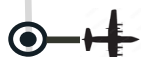
CHAPADA
DIAMANTINA 2008

ECUADOR 2012



PLANALTO 2014

CHILE 2014 /2017



CHAPADA
VEADEIROS
2017

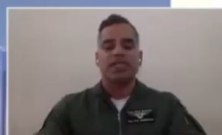
MAFFS II (2023)

PANTANAL 2024

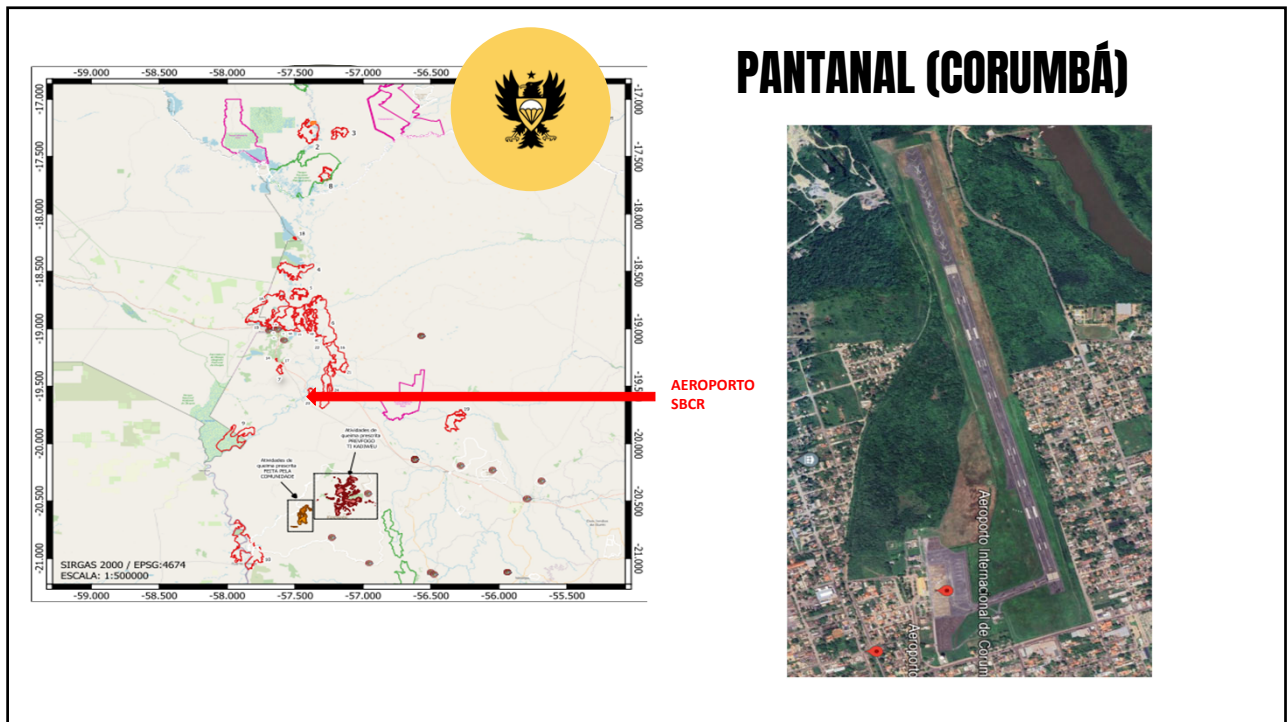


2024
PANTANAL

1st REAL OPERATION



AO VIVO
TENENTE-CORONEL AMÉRICO | (1º GTT) do Esquadrão Zeus
DEVASTAÇÃO NO BIOMA
AVIÃO DA FAB REFORÇA COMBATE AO FOGO NO PANTANAL
Aeronave sobrevoa focos do incêndio com 12 mil litros de água





ADDITIONAL MAFFS II MISSIONS

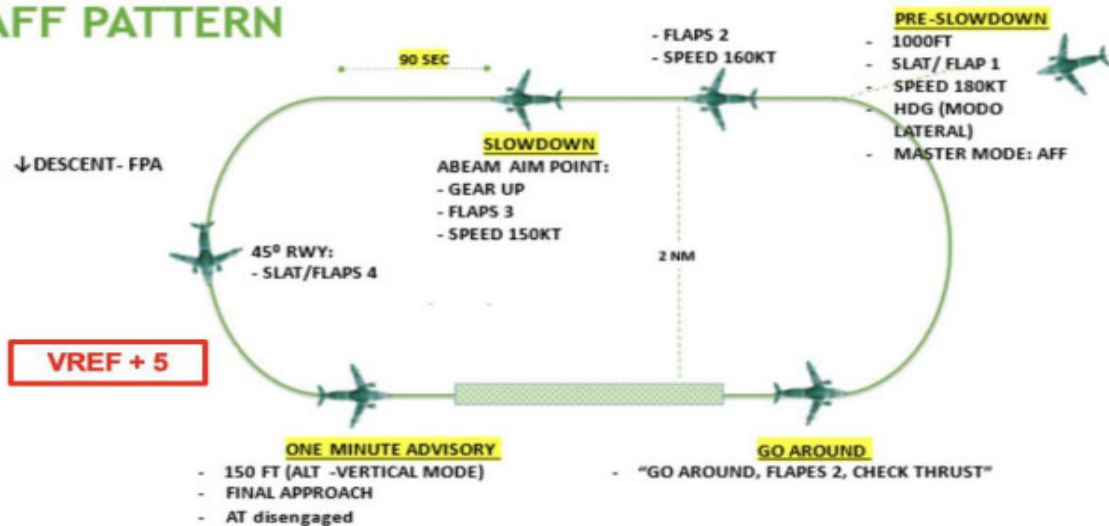
 **SÃO PAULO (RIBEIRÃO PRETO 2024)**

 **SERRA DO CACHIMBO (NOVO PROGRESSO 2024)**

AFF TRAFFIC PATTERN



AFF PATTERN



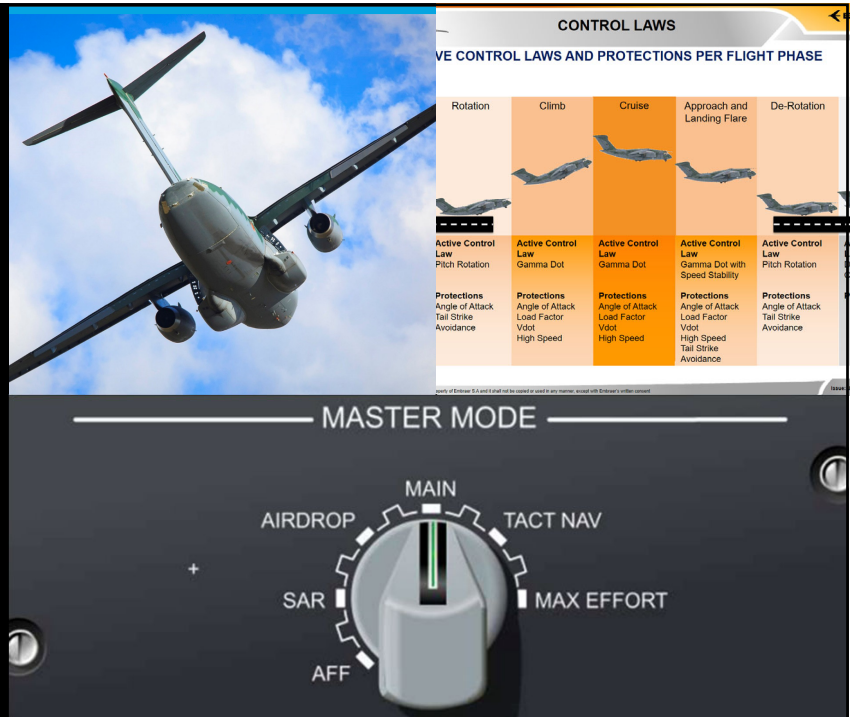
RELATED AIRBORNE SYSTEMS





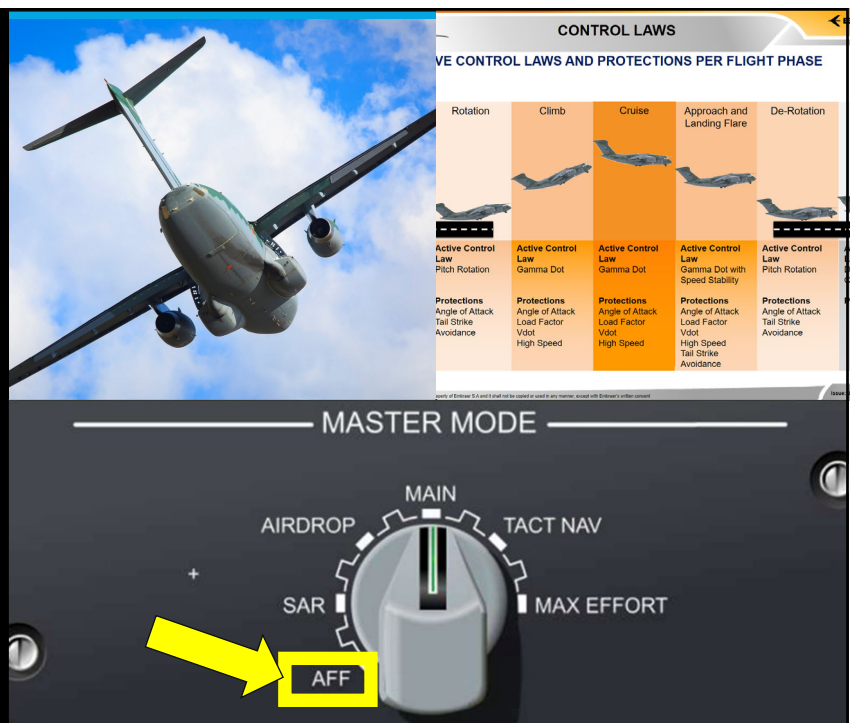
Related Airborne Systems

Full Fly by Wire
(side-stick)



Related Airborne Systems

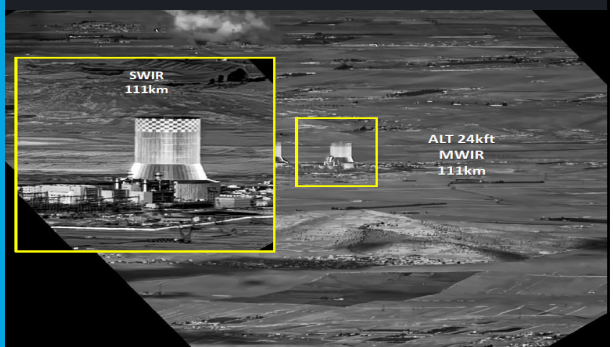
Full Fly by Wire
(side-stick)



Related Airborne Systems



✓EO/IR POD

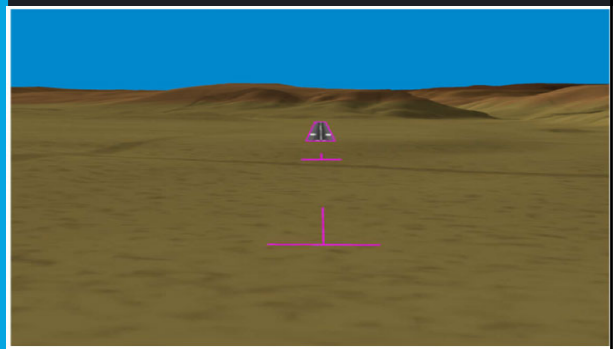


Related Airborne Systems



✓SVS

Synthetic Vision System





SEMI PREPARED RUNWAY



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HUMANITARIAN AID LEBANON

ASSISTÊNCIA HUMANITÁRIA

LÍBANO

**KC-390
MILLENNIUM**

Aeronave multimissão e reabastecimento em voo
Envergadura: 35,05 m
Comprimento: 35,2 m
Peso máximo de decolagem: 81.000 kg
Velocidade máxima: Mach 0,8 (955 km/h)
Teto de Serviço: 36.000 ft (10.973 m)

VC-2

Aeronave de transporte presidencial
Envergadura: 28,72 m
Comprimento: 36,25 m
Peso máximo de decolagem: 51.800 kg
Velocidade máxima: 531 kt (985 km/h)
Teto de Serviço: 41.000 ft (12.496 m)

FORÇA AÉREA BRASILEIRA
Asas que protegem o País

MINISTÉRIO DAS
RELAÇÕES EXTERIORES

MINISTÉRIO DA
SAÚDE

MINISTÉRIO DA
DEFESA

HUMANITARIAN AID HAITI

ASSISTÊNCIA HUMANITÁRIA

HAITI

MISSÃO

32

BOMBEIROS

ESPECIALISTAS E PERITOS EM BUSCA E RESGATE

7

TONELADAS

INSUMOS E EQUIPAMENTOS

3,5

TONELADAS

MEDICAMENTOS E INSUMOS PARA ASSISTÊNCIA

**KC-390
MILLENNIUM**

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HUMANITARIAN AID HAITI

HUMANITARIAN MISSION UKRAINE WAR



UKRAINE WAR (2022)

• FULL CARGO



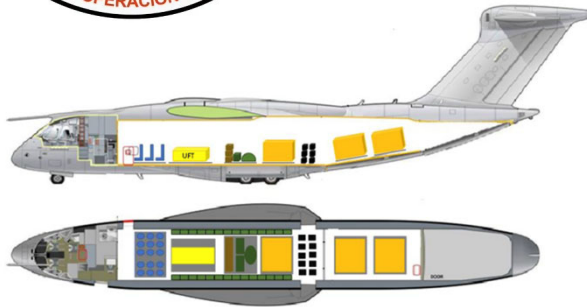
FULL PAX





COOPERACIÓN - PERU 2023

High Altitude Operations – SPJJ / 11,040 ft



**AMBULANCE
&
CAMPAIGN HOSPITAL**



TRANSPORTE AÉREO LOGÍSTICO



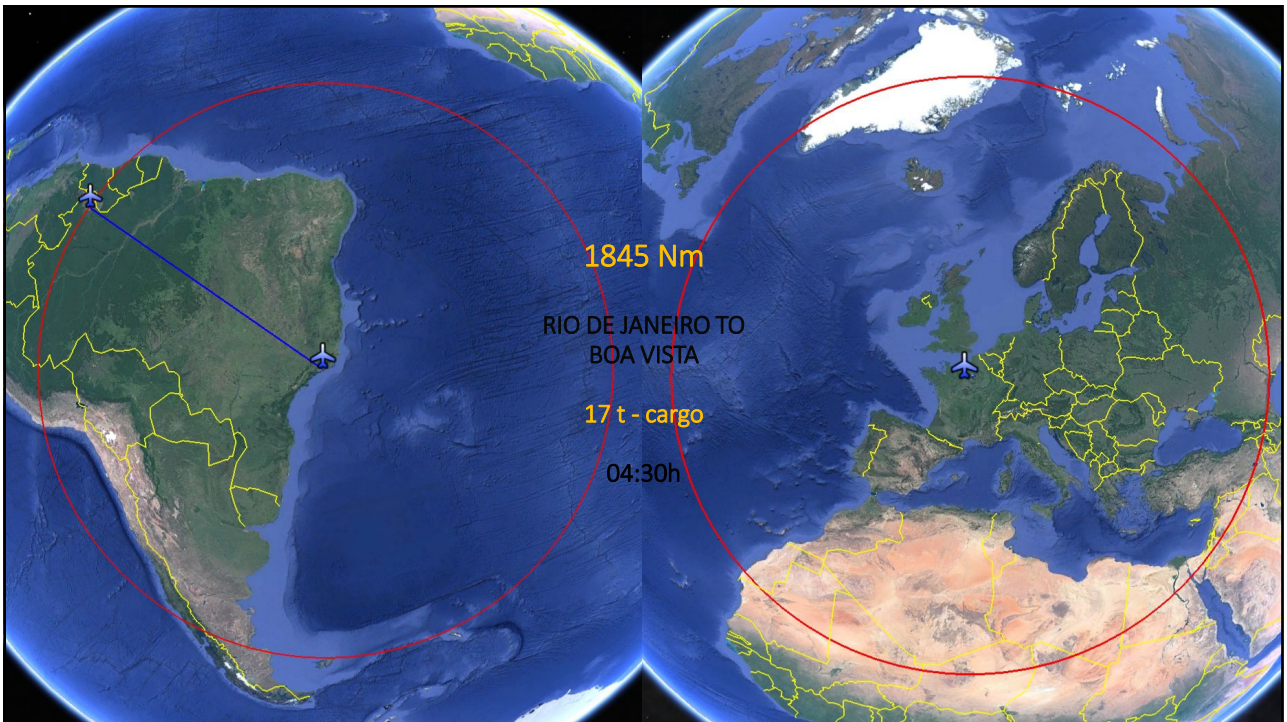
**VACCINE
&
MEDICAL EQUIPMENT**

**LIQUID OXYGEN
&
OXYGEN PLANT**



TRANSPORTE AÉREO LOGÍSTICO







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