



OSCC.RC/31/10
7 June 2010

Open Skies Consultative Commission

ENGLISH only

US Chair of the OSCC Review Conference

SECOND OPEN SKIES REVIEW CONFERENCE (OSRC) 2010

7 to 9 June 2010

**Working Session 1
Review and evaluation of Treaty implementation**

**Item 6
Sharing observation flights: Lessons learned for joint planning and execution**

PRESENTATION

**Italy on behalf of the POD Group
Col.Paolo Latini**



Open Skies 2nd Review Conference POD Group

Col. Paolo LATINI

Agenda



- History
- Organization
- Activity
- System configuration and perspectives

History



- 24 Mar 1992 – Treaty on Open Skies signed in Helsinki

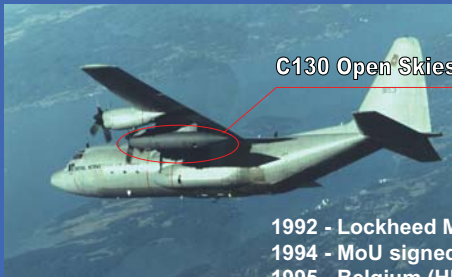


Lockheed Hercules C-130

- Belgium
- Canada
- France
- Greece
- Italy
- Luxembourg
- Norway
- Netherlands
- Portugal
- Spain

- 1 Jan 2002 – Treaty on Open Skies into force

History



C130 Open Skies POD SYSTEM (COPS)

- 1992 - Lockheed Martin presented the COPS on Belgian C130H
- 1994 - MoU signed in Bruxelles
- 1995 - Belgium (HBC) signed the contract for the acquisition
- 1996 - COPS in Melsbroek (BE) inside Portuguese C-130H
- 1996 – Initial Training on COPS in Melsbroek (BE)
- 1999 – First Test Certification in Spain
- 2001 - Trial Certification in Fürstly (DE)
- 2002 - Certification C-130H COPS in Orleans (FR)
- 2003 – Italian Certification C-130 J in Ciampino (IT)
- 2005 – Canadian Certificazione C-130 E in Canada
- 2005 – Arrangement to rule the POD Group
- 2008 – Certification for new configurations (tot.: 18)
- 2010 – Norway leaves POD Group

Organization

BODIES



Base Country

- COPS Maintenance, Upload & Download
- Budgets



Co-ordination Forum (CF)

- Decisions by consensus and action items
- COPS schedule



Technical Working Group (TWG)

Technical studies when requested (certification, new equipment)



Configuration Control Board (CCB)

POD management for Technical problems regarding COPS



System Administrator (SA)

Implementation for official documentations for COPS



Organization

BUDGET SHARING MODEL



- **Fixed sharing key (62,3%)**
 - capital expenditures shared proportionally to the agreed slots
- **Equal sharing key (1,1%)**
 - items under common interest (i.e.: data gathering flights and trial/certification flights) are equally shared
- **Variable (O&M) sharing key (27,4%)**
 - operative, maintenance and admin costs related to the Participant's effective use of the COPS (50% Pod cycles e 50% Pod flying time)
- **Overhaul sharing key (8,4%)**
 - includes the long period overhaul and is taking in account fixed and variable sharing keys
- **Unique sharing key (0,8%)**
 - no common interest expenditures

Organization



BUDGET SHARING MODEL

Nations	slot	%
Belgium		7,28*
Canada	4	20,00
France	4	20,00
Greece	2	10,00
Italy	4	20,00
Luxembourg		0,45*
Netherlands		7,28*
Portugal	1	5,00
Spain	2	10,00
*(BeNeLux	3	15,01)

Activity



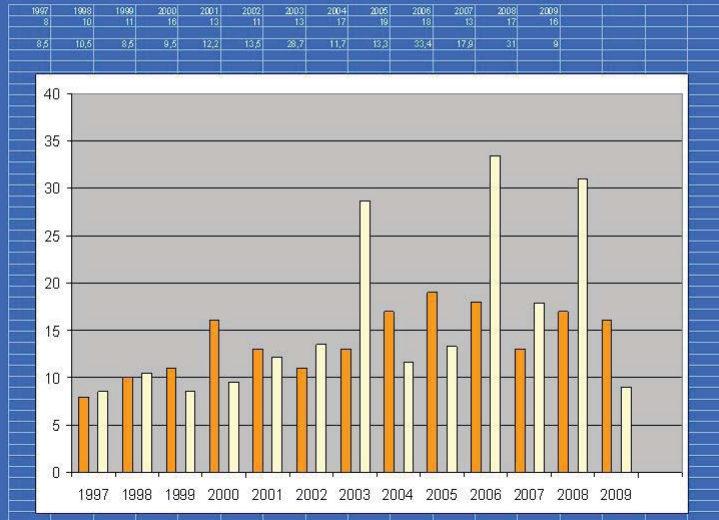
FLYING ACTIVITY

- since 1997 182 flights (2170hrs)
(observation, training, trial, certification, DGF, etc.)
- 2006 peak of flying activity (335hrs)

Activity



FLYING ACTIVITY



Activity



COPS IMAGERY



OS-09-220

Activity

COPS IMAGERY



Activity

COPS IMAGERY



Activity

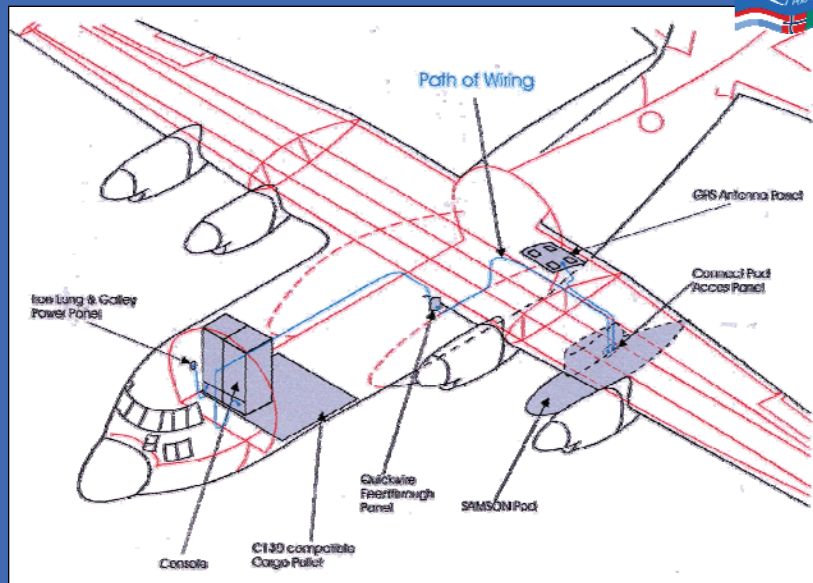


GROUND TRAINING

POD Group courses:

- POD Group Operation Course
- Sensor/Console Operator Course
- Sensitometric Workshop

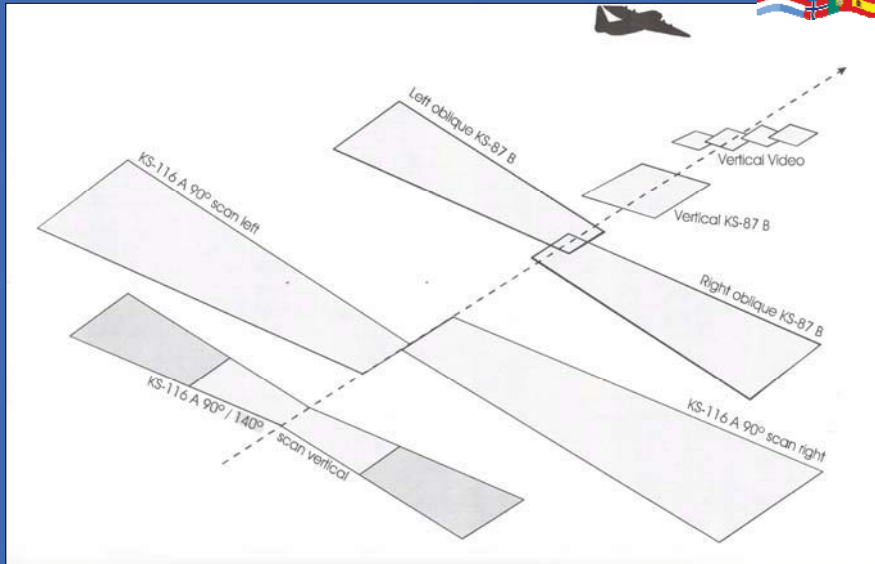
The system and perspectives





The system and perspectives

FOOTPRINT



The system and perspectives

CONFIGURATIONS



Codice Configur. *	Sensor	Media	Hmin (m)
PG-OP__-P3	KS-116A	KODAK 3404	5290
PG-OP__-P4	KS-116A	AGFA PAN200	4987
PG-OP__-P3F	KS-116A	KODAK 3404	786
PG-OP__-P4F	KS-116A	AGFA PAN200	824
PG-OF__-V3	KS-87B V	KODAK 3404	1684
PG-OF__-R3	KS-87B R	KODAK 3404	1996
PG-OF__-L3	KS-87B L	KODAK 3404	1622
PG-OF__-V4	KS-87B V	AGFA PAN200	1965
PG-OF__-R4	KS-87B R	AGFA PAN200	1903
PG-OF__-L4	KS-87B L	AGFA PAN200	1758
PG-OF__-V3F	KS-87B V	KODAK 3404	806
PG-OF__-R3F	KS-87B R	KODAK 3404	760
PG-OF__-L3F	KS-87B L	KODAK 3404	699
PG-OF__-V4F	KS-87B V	AGFA PAN200	851
PG-OF__-R4F	KS-87B R	AGFA PAN200	807
PG-OF__-L4F	KS-87B L	AGFA PAN200	723
PG-TVFI-T1	VIDEO	SONY E5-60HMEX	242
PG-TVFI-T2	VIDEO	SONY E5-60HMEX	124

Legenda: PG=Pod Group; OP=Optical Panoramic; OF=Optical Framing;
 P=Panoramic; V=Vertical; R=Right; L=Left; T1=Video 12mm lens; T2=Video 6mm lens
 3=Kodak 3404; 4=Agfa PAN200; 6=Kodak SO-50; F=Image Degrading Filter

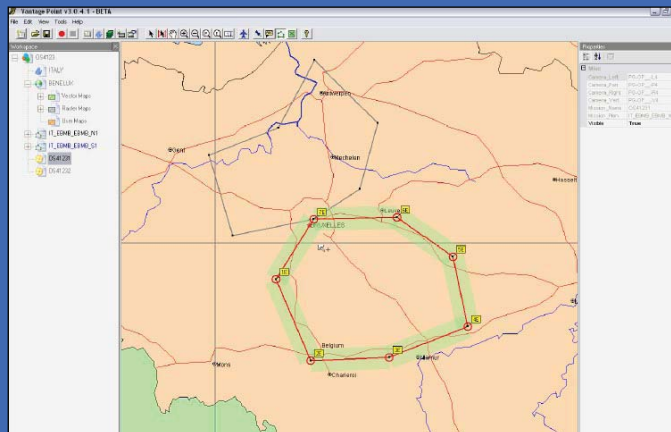
The system and perspectives

CONSOLE



The system and perspectives

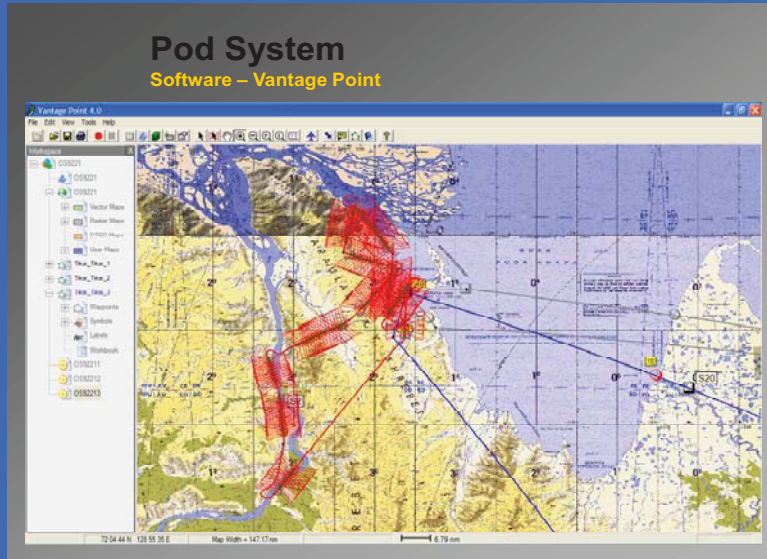
CONSOLE



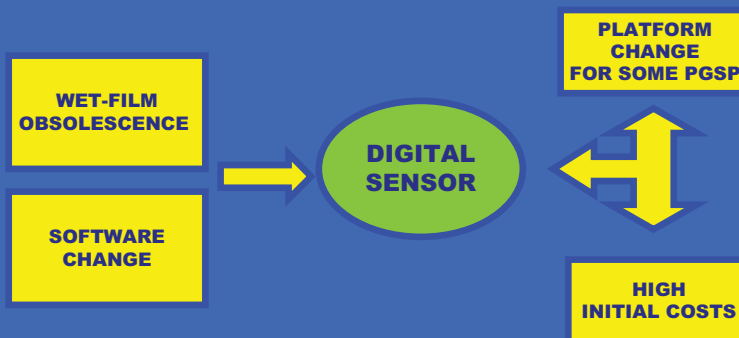
POD Group uses a Vantage Point (VP) software for real-time mapping, all flight following and annotations inside the frames.

The system and perspectives

CONSOLE



The system and perspectives



POD GROUP



- POD GROUP IS A VALID EXPERIENCE
- COST-SHARING
- EXPERIENCE-SHARING
- C130 GUARANTEES FLEXIBILITY
- FACING NEW TECHNOLOGY
- USELESS EXPENDITURES ON OLD TECHNOLOGY
- OBJ IS A COST/EFFECTIVE SYSTEM TO BETTER SERVE THE SCOPE OF THEATY ON OPEN SKIES



QUESTIONS?