



CINQUIEME SEMESTRE
Spécialité Avionique et Systèmes de
Contrôle du Trafic Aérien

SB510
Air-Ground Collaborative Applications
January 2015



Module Leader

- Serge Boisse
 - ATM project manager and professor
 - Equipment and Systems Expert



Teachers

- Serge Boisse and Jean-Marc Louis





SB 510 - Air Ground Collaborative Applications

This module aims mainly at giving students a practical view of the use and importance of emerging air-ground communication and surveillance technologies that were learned in previous modules, as well as the impact of these technologies on future concepts of operations for ATM.



SB 510 - Air Ground Collaborative Applications

Courses are :

- Controller Pilot Data Link Communications (CPDLC) applications
- Future Air Navigation System (FANS)
- ADS-B and ADS-C applications
- Advanced Surface Movement Guidance and Control Systems (A-SMGCS)

Concept and Implementation

- Collaborative decision making
- Arrival and departure managers : AMAN and DMAN
- Airborne Surveillance Assistance System (ASAS)
- Air Traffic Situational Awareness (ATSAW)
- ASAS In-trail procedures
- Continuous Descent Operations (CDO)



2015 Week 2 january 7-9

	8:00 - 8:50 8:55 - 9:45			10:05- 10:55 11:00 -11.50		13:30 -14:20 14:25 -15:15		15.35-16:25 16:30 -17:20		18.30-19:20 19:25- 20:15
MONDAY Teacher			BRE		LUN		BRE		DIN	
TUESDAY Teacher			BRE		LUN		BRE		DIN	
WEDNESDAY 7 Serge Boisse		09:30-09:45 SB510 module presentation	BREAK	Future Air Navigation System (FANS) Serge Boisse	LUNCH	Future Air Navigation System (FANS) Serge Boisse	BREAK		DINNER	
THURSDAY 8 Serge Boisse	Continuous Descent Operations (CDO) Serge Boisse		BREAK	AMAN and DMAN (1) Serge Boisse	LUNCH	AMAN and DMAN (2) Serge Boisse	BREAK		DINNER	
FRIDAY 9 Teacher	Controller Pilot Data Link Communications (CPDLC) applications Serge Boisse		BREAK	ADS-B and ADS-C applications Jean-Marc Louis	LUNCH	ADS-B and ADS-C applications Jean-Marc Louis	BREAK	ADS-B and ADS-C applications Jean-Marc Louis	DINNER	



2015 Week 3 january 12-14

	8:00 - 8:50 8:55 - 9:45		10:05- 10:55 11:00 -11.50		13:30 -14:20 14:25 -15:15		15.35-16:25 16:30 -17:20		18.30-19:20 19:25- 20:15
MONDAY 12 Teacher	Pre-exam JML et SB	BREAK	ASAS Jean-Marc Louis	LUNCH	ASAS ITP Jean-Marc Louis Serge Boisse	BREAK	CDM Serge Boisse	DINNE	
TUESDAY 13 Teacher	CDM Serge Boisse	BREAK	A-SMGCS Jean-Marc Louis	LUNCH	A-SMGCS Jean-Marc Louis			DINNE	
WEDNESDAY 14 Jean-Marc Louis	A-SMGCS Jean-Marc Louis	BREAK	SB510 Final Exam	LUNCH		BREAK		DINNER	
THURSDAY Teacher		BRE		LUN		BRE		DIN	
FRIDAY Teacher		BREAK		LUNCH		BREAK		DINNER	



- Questions ?

