



Mirage 2000 Fighter Pack

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This mod works with DCS World Mirage 2000C module. The functioning of this module as developed by Razbam is not explained. Only modifications brought by this mod are described in this document. The M-2000C is not impacted by the modifications below. Only added variants are concerned.

I) Mod limitations

No identified limitation.

II) Variants

Mirage 2000C S3 : The 2000C S3 standard is the ultimate variant equipped with RDM radar and M53-5 engine. Developed as pre-production aircraft awaiting RDI radar, The 2000C RDM entered service in French air force in 1984. Compared to previous standards, the S3 offers Super 530F launch capability and a refuel probe.

Mirage 2000H : India is the first export client and received its 2000H in 1985. First equipped with M53-5 engines, they were retrofited to M53-P2 later. While using RDM radar and Super 530D, these aircraft are able to employ an improved Air-to-Ground payload.

III) Technical data

Characteristics	2000C RDI	2000C S3	2000H
Engine	M53-P2	M53-5	M53-P2
Radar	RDI	RDM	RDM
IFF interrogator	YES	NO	NO
TAF	YES	YES	NO
Datalink	NO	NO	NO
DDM	YES	NO	NO
SABRE jammer	YES	YES	YES
ECLAIR pod	YES	NO	NO
SPIRALE dispenser	YES	NO	NO
NVG	YES	NO	NO
Targeting pod	NO	NO	YES (not implemented)

IV) Air-Air weapons specificities

Armament	2000C RDI	2000C S3	2000H
Super 530D	YES	NO	YES
Super 530F	NO	YES	NO
Magic II	YES	YES	YES
Magic I	NO	YES	YES
Mica EM	NO	NO	NO
Mica IR	NO	NO	NO
DEFA 553	YES	YES	YES

V) Air-Ground weapons specificities

Armament	2000C RDI	2000C S3	2000H
Dumb bombs	YES	YES	YES
GBU	YES	YES	YES
BAP-100	YES	YES	YES
Durandal	NO	NO	NO
AS-30L	NO	NO	YES
AASM	NO	NO	NO
ARMAT	NO	NO	YES (not implemented)
AM-39 Exocet	NO	NO	NO
Scalp EG	NO	NO	NO
CC-421 gun pod	NO	NO	NO
Rockets	YES	YES	YES

VI) ECM

The variants that are not equipped with SPIRALE dispensers have their chaffs/flares quantities reduced as follow :

- 16 chaffs
- 16 flares

Quantities can be modified in mission editor.

The screenshot displays the mission editor interface for aircraft configuration. The settings are as follows:

Parameter	Value	Unit
AVION CIVIL	<input type="checkbox"/>	
CARBURANT INTERNE	100	%
MASSE DE CARBURANT	6978	lbs
POIDS A VIDE ÉQUIPÉ	16755	lbs
ARMEMENT	688	lbs
MAX	36376	
TOTAL	24421	lbs
	67	%
PAILLETES	< > 16	
LEURRES IR	< > 16	
CANON	< > 100	%
TYPE MUNITIONS	30mm AP	

VII) Identification

So as to improve identification, the Serval system and NCTR mod have been enriched with the following modules and mods :

Aditionnal mod	Serval	NCTR
2000C S3	I	M-2000
2000H	I	M-2000
A-4E	.	A-4
F-4B & F-4C (VSN)	4	F-4
Su-30 (Codename)	— — —	SU-30
Mig-31BM (Szcz)	— —	MIG-31

VII) Identification

Modules identification has been modified as followed :

Aditionnal mod	Serval	NCTR
Mirage F1	7	F1
F/A-18A	-	F-18
Vulcan	G	
p-19 s-125 sr	2	
HQ-7	8	
ZSU-23-4 Shilka	9	

VIII) Radars technical data

Characteristics	RDI	RDM
Modes	BFR/ENT/HFR	GP/MP/BT/BA
NCTR	YES	NO
TDC switch	S & Z	S
DEC mode	YES	YES
VISU mode	YES	YES
PER mode (« Percée »)	NO	YES (not implemented)
AC mode (« Anti Collision »)	NO	YES (not implemented)

IX) RDM radar description

/!\ The RDM modeling is based on RDI as developped in Mirage 2000C module. As such it is not accurate.

Two search modes are simulated :

1 : These modes are represented by
« RCH ».

GP (« Grande Portée ») : With an average 40 nm range, It is based on « BFR » RDI mode. It doesn't allow to select a target in PSID/PSIC mode. It doesn't have lookdown ability.

MP (« Moyenne Portée ») : With an average 40 nm range, It is based on « ENT » RDI mode. It allows to select a target in PSID/PSIC mode. It doesn't have lookdown ability.



IX) RDM radar description

These two modes are selectable with « PRF » switch :

- GP : « BFR » position
- MP : « ENT » position

(Nota bene : « HFR » mode is not functional anymore)



IX) RDM radar description

PSID mode (« TWS »):

1 : This mode is represented by « PID ».

- It has lookdown ability.
- Only show selected target.
- Doesn't activate enemy RWR.
- Doesn't allow Super 530F/D launch.



IX) RDM radar description

PSIC (« STT »):

1 : This mode is represented by « PIC ».

- It has lookdown ability.
- Only show selected target.
- Activate enemy RWR.
- Allow Super 530F/D launch.



IX) RDM radar description

Air-to-Ground modes :

- DEC and VISU modes work like their counterparts on RDI radar.
- PER and AC modes are not implemented.

X) Super 530F launch procedure

Super 530F and Super 530D launch procedure are the same. Nonetheless the VTH symbology has been modified to take into account the specific characteristics of this missile.

1 : Range have been modified in accordance with missile performances (**this is the reference information for launch procedure**).

2 : The « interception director circle » doubling is deactivated.

3 : The « TIR » message is deactivated.

(Nota bene : sound signals are not reliable. Don't take them into account)

