CHANGE: REPRINTING

ICP & SID RWY 02

PARMA

TRANSITION ALT 6000

FREQUENCIES

TWR	Parma TWR	118.450
APP	Parma APP	127.575

DISTANCES: NM
ALTITUDES: FEET
SCALE 1:250.000

NDB VOR/DME
Trezzo
TZO 345.00
117.25 *Ch 119Y*
45°33'33"N
009°30'25"E
160m

VORTAC
Villafranca
VIL 115.80
Ch 105X
45°24'28"N
010°54'23"E
82m

DME
Parma
IPR *Ch 42X*
44°49'55"N
010°17'50"E
49m

LOC
Parma
IPR 110.50
44°48'56"N
010°17'32"E

DVOR/DME
Bologna
BOA 117.10
Ch 118X
44°32'13"N
011°17'26"E
43m

VERONA CTR
5500ft AMSL
SFC
D

CTR PARMA
Zone 2
3000ft AMSL
1500ft AMSL
D

CTR PARMA
Zone 1
3000ft AMSL
SFC
D

CTR PIACENZA
Zone 3
5500ft AMSL
SFC
D

CTR PIACENZA
Zone 4
5500ft AMSL
2000ft AMSL
D

CTR BOLOGNA
Zone 5
FL125
4500ft AMSL
D

R103
FL195
6000ft AMSL

MISPO
D40 TZO
MCL 100

OSBUL
D44 VIL
D55 TZO

MCA 6000
for OSBUL 6N only

MISPO 6Z
OSBUL 6N
BETMU 6Z
LUPOS 6Z

IAS MAX 200 KT
MHA 6000
214°
034°
140°>
170°>
014°>
109°>12
109°
144°>11
144°>12
R289 BOA
R214 VIL
R140 TZO
D48 VIL
D34 BOA
MCA 6000
D22 BOA
MP501
MCA 6000

NOT TO SCALE

LUPOS
MCL 90

MNM SECT ALT
ARP
9000

LEGEND
ICP
SID
SID Atc discretion

GENERAL REMARKS

1. Minimum climb gradient: 486 ft/NM (8.0%) until leaving 6000 ft.

2. During the initial climb pilots shall adopt a minimum climb gradient, in accordance with ICAO ANNEX 6, provisions for a safe obstacles overflying. Such climb gradient shall be maintained in any foreseeable circumstance.

3. Aircraft equipped according to RNAV1 or RNP1 specification may use the suggested coding reported below. SID may be flyed according to RNAV 1 specification only if Radar Service is available.

4. The operators not approved for RNAV1/RNP1 may fly the below reported SID, as published, reaching 6000 ft within 10NM from the field and then expect radar vectoring by MILANO ACC.

INITIAL CLIMB PROCEDURE RWY 02 DESCRIPTION

After take-off proceed on TR 014° until leaving 2000 ft, then turn left to join the assigned SID.

1. IAS MAX 200 kt during turn

WARNING
There are close-in obstacles penetrating OIS 2.5%.

SID DESCRIPTION RWY 02

Initial climb procedure executed:

BETMU 6Z (ATC discretion)
Proceed on TR 170° until joining RDL/QDR 140 TZO VOR/NDB (TR 140°) to OSBUL (RDL/QDR 140/55NM TZO VOR NDB/DME), then follow RDL 289 BOA VOR (TR109°) inbound BETMU (RDL 289/22 NM BOA VOR/DME).

MCA: RDL 289/34NM BOA VOR DME: 6000FT.

LUPOS 6Z

Path Terminator	Waypoint Name	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (kt)	Navigation Specification
CA	-	-	014°	-	-	-	2000	-	RNAV1/RNP1 (see remark 4)
DF	OSBUL	-	-	-	-	L	-	200	RNAV1/RNP1 (see remark 4)
TF	MP501	-	144°	-	11	-	6000	-	RNAV1/RNP1 (see remark 4)
TF	LUPOS	-	144°	-	12	-	FL 90	-	RNAV1/RNP1 (see remark 4)

MISPO 6Z
Join RDL/QDR 140 TZO VOR NDB (TR320°) inbound MISPO (RDL/QDR 140/40NM TZO VOR NDB/DME).

MCL: MISPO: FL100

Path Terminator	Waypoint Name	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (kt)	Navigation Specification
CA	-	-	014°	-	-	-	2000	-	Conventional/ RNAV1/RNP1
CF	MISPO	-	320°	+3	-	-	FL100	200	Conventional/ RNAV1/RNP1

OSBUL 6N
Proceed on TR 170° until joining RDL/QDR 140 TZO VOR/NDB (TR 140°) to OSBUL (RDL/QDR 140/55NM TZO VOR NDB/DME), to be reached at 6000 ft or above , then climb in the holding pattern until reaching MEL for next AWY segment or FL cleared by Milano ACC.

MCA: OSBUL: 6000FT.

Path Terminator	Waypoint (FIX)	Inbound Course °M	Navaid	Outbound leg	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FL)	Speed Limit (kt)	Magnetic Variation (°)	Navigation Specification
HM	OSBUL (RDL 214/44 NM)	034 (36.8)	VIL VORTAC	-	L	6000	-	200	+3	Conventional

WAYPOINT LIST

Waypoint Identifier	Coordinates
MP501	44°40’06.64” N 010°25’59.76” E

CHANGE: new WARNING added; procedures naming changed; magnetic variation and GEO ATS updated.

ICP & SID RWY 20

PARMA

TRANSITION ALT 6000

FREQUENCIES

TWR	Parma TWR	118.450
APP	Parma APP	127.575

LEGEND

ICP

SID

SID ATC DISCRETION

DISTANCES: NM
ALTITUDES: FEET
SCALE 1:250.000

REMARK:
RWY 20 TAKE-OFF IS ALLOWED ONLY DURING DAYLIGHT AND WITH VISIBILITY EQUAL OR MORE THAN 1500m

NDB TVOR/DME
Trezzo
TZO 345.00
117.25 *Ch 119Y*
45°33'33"N
009°30'25"E
160m

VERONA CTR
5500ft AMSL
SFC
D

JAN 20

CTR PARMA
Zone 2
3000ft AMSL
1500ft AMSL
D

VORTAC
Villafranca
VIL 115.80
Ch 105X
45°24'28"N
010°54'23"E
82m
NOT TO SCALE

DME
Parma
IPR *Ch 42X*
44°49'55"N
010°17'50"E
49m

R 103
FL 195
6000 ft AMSL

CTR PIACENZA
Zone 3
5500ft AMSL
SFC
D

CTR PIACENZA
Zone 4
5500ft AMSL
2000ft AMSL
D

CTR PARMA
Zone 1
3000ft AMSL
SFC
D

CTR BOLOGNA
Zone 5
FL125
4500ft AMSL
D

DVOR/DME
Bologna
BOA 117.10
Ch 118X
44°32'13"N
011°17'26"E
43m

NOT TO SCALE
MISPO
MCL 100
D40 TZO
R140 TZO
5<320°
MCA 5000
MP502 D45 TZO
MISPO 6W

OSBUL 6T
IAS MAX 210KT
SUXIL
D4.2 IPR
MCA 5000
170°
014°
MISPO 6T
10<320°
R140 TZO
MISPO 6W
102
MCA 3000
for MISPO 5T only
D44 D55
VIL TZO
214°
140°
OSBUL
334°
OSBUL 6T
IAS MAX 200 KT
MHA 6000
034°
D48 VIL
MISPO 6T
800 (for MISPO 6W only)
1200
IAS MAX 185 KT
R214 VIL
250
IAS MAX 210 KT
190
BETMU 6W
R289 BOA
109°
079°
344
LOC
Parma
IPR 110.50
44°48'56"N
010°17'32"E
LUPOS 6W
MP501
MCA 6000
144°>12
109°>12
MCA 6000 D34 BOA
NOT TO SCALE
BETMU
D22 BOA
LUPOS
MCL 90
NOT TO SCALE

THR 02
237 tree
185 building
244 pole
304 trasmission line
Warning: Close-in obstacles penetrating OIS 2.5% exist, but they were not considered for the published Procedure Design Gradient
0 1 Km

MNM SECT ALT
ARP
9000

3573

GENERAL REMARKS

1. Minimum climb gradient: 486 ft/NM (8.0%) until leaving 6000 ft.

2. During the initial climb pilots shall adopt a minimum climb gradient, in accordance with ICAO ANNEX 6, provisions for a safe obstacles overflying. Such climb gradient shall be maintained in any foreseeable circumstance.

3. Aircraft equipped according to RNAV1 or RNP1 specification may use the suggested coding reported below. SID may be flown according to RNAV 1 specification only if Radar Service is available.

4. The operators not approved for RNAV1/RNP1 may fly the below reported SID, as published, reaching 6000 ft within 10NM from the field and then expect radar vectoring by MILAN ACC.

5. Take-off from RWY 20 is allowed only during daylight and with visibility equal or more than 1500 m.

INITIAL CLIMB PROCEDURE RWY 20 DESCRIPTION

- **If cleared for the following SID BETMU 6W, LUPOS 6W, MISPO 6T and OSBUL 6T :**

after take-off proceed on TR 194° until leaving 1200 ft, then turn left to join the assigned SID.
1. IAS MAX 210 kt during turn

- **If cleared for the SID MISPO 6W :**

after take-off proceed on TR 194° until leaving 800 ft, then turn right to join the assigned SID.
2. IAS MAX 185 kt during turn
3. Bank angle 20° average achieved or 2°/sec whichever is the lesser bank.

WARNING
There are close-in obstacles penetrating OIS 2.5% but they were not considered for the published procedure design gradient

SID DESCRIPTION RWY 20

Initial climb procedure executed:

BETMU 6W (ATC discretion)
Proceed on TR079° to join RDL 289 BOA VOR (TR109°) inbound BETMU (RDL 289/22NM BOA VOR/DME).

MCA: RDL 289/34NM BOA VOR/DME: 6000FT.

LUPOS 6W

Path Terminator	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation (°)	Distance (NM)	Turn Direction	Altitude (FT)	Speed Limit (KT)	Navigation Specification
CA	-	-	194°	-		-	1200	-	RNAV1/ RNP1 (see remark 4)
CF	MP501	-	144°	+3	-	-	6000	210	RNAV1/RNP1 (see remark 4)
TF	LUPOS	-	144°	-	12	-	FL 90	-	RNAV1/RNP1 (see remark 4)

MISPO 6T
Proceed inbound OSBUL (RDL/QDR 140/55NM TZO VOR NDB/DME) to leave on RDL/QDR 140 TZO VOR NDB (TR320°) bound to MISPO (RDL/QDR 140/40NM TZO VOR NDB/DME).

MCA/MCL: OSBUL, 3000FT; MP502: 5000 FT; MISPO: FL100

Path Terminator	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation (°)	Distance (NM)	Turn Direction	Altitude (FT)	Speed Limit (KT)	Navigation Specification
CA	-	-	194°	-	-	-	1200	-	Conventional/ RNAV1/RNP1
DF	OSBUL	-	-	-	-	L	3000	210	Conventional/ RNAV1/RNP1
TF	MP502	-	320°	-	10	-	5000	-	Conventional/ RNAV1/RNP1
TF	MISPO	-	320°	-	5	-	FL 100	-	Conventional/ RNAV1/RNP1

MISPO 6W (ATC discretion)
Joining RDL/QDR 140 TZO VOR/NDB (TR320°) to MP502 (RDL/QDR 140/45NM TZO VOR NDB/DME then proceed inbound MISPO (RDL/QDR 140/40NM TZO VOR NDB/DME).

MCA/MCL: MP502: 5000 FT; MISPO: FL100

Path Terminator	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation (°)	Distance (NM)	Turn Direction	Altitude (FT)	Speed Limit (KT)	Navigation Specification
CA	-	-	194°	-	-	-	800	-	Conventional/ RNAV1/RNP1
CF	MP502	-	320°	+3	-	R	5000	185	Conventional/ RNAV1/RNP1
TF	MISPO	-	320°	-	5	-	FL 100	-	Conventional/ RNAV1/RNP1

OSBUL 6T
Proceed on TR 334° to join and follow IPR LOC (TR 014°) to SUXIL (014° IPR LOC/4.2NM IPR DME) to be reached at 5000 ft or above, then turn left on TR 170° until joining RDL/QDR 140 TZO VOR/NDB (TR 140°) to OSBUL (RDL/QDR 140/55NM TZO VOR NDB/DME), and climb in the holding pattern until reaching MEL for next AWY segment or FL cleared by Milano ACC**.**

MCA/MCL: SUXIL, 5000FT; OSBUL: 6000FT o come autorizzato da Milano ACC/or as cleared by Milano ACC.

Path Terminator	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation (°)	Distance (NM)	Turn Direction	Altitude (FT)	Speed Limit (KT)	Navigation Specification
CA	-	-	194°	-	-	-	1200	-	Conventional/ RNAV1/RNP1
CF	SUXIL	Y	014°	+3	-	L	5000	210	Conventional/ RNAV1/RNP1
CF	OSBUL	-	140°	+3	-	L	6000	210	Conventional/ RNAV1/RNP1

Path Terminator	Waypoint (FIX)	Inbound Course °M (°T)	Navaid	Outbound leg	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FL)	Speed Limit (KT)	Magnetic Variation (°)	Navigation Specification
HM	OSBUL (RDL214/44NM)	034 (36.8)	VIL VORTAC	-	L	6000	-	200	+3	Conventional

WAYPOINT LIST

Waypoint Identifier	Coordinates
MP501	44°40'06.64" N 010°25'59.76" E
MP502	44°57'25.34" N 010°09'04.81" E