

**STAR RNAV Bergamo / Orio al Serio****DIXER 4E**

Path Terminator	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (kt)	Navigation Specification
IF	DIXER	-	-	-	-	-	-	250	RNAV1/RNP1(1)
TF	ITVUN	-	078 (080.8)	-	17.8	-	+6000	230	RNAV1/RNP1(1)
TF	ME740	-	019 (022.2)	-	5.0	-	-FL120 +6000	-	RNAV1/RNP1(1)
TF	ME632	-	019 (022.1)	-	7.5	-	-FL90 +6000	220	RNAV1/RNP1(1)
TF	ME628	-	102 (105.4)	-	4.2	-	+6000	220	RNAV1/RNP1(1)
TF	ME624	-	082 (084.9)	-	4.2	-	-FL90 +6000	220	RNAV1/RNP1(1)
TF	ME620	-	062 (065.3)	-	4.2	-	-FL90 +6000	220	RNAV1/RNP1(1)
TF	ME616	-	042 (045.3)	-	4.2	-	-FL90 +6000	220	RNAV1/RNP1(1)
TF	ULVUN	Y	022 (025.4)	-	4.2	-	-FL90 +6000	220	RNAV1/RNP1(1)
TF	TIXUM	-	282 (285.4)	-	12.0	L	+6000	AT 210	RNAV1/RNP1(1)

(1) For "monitoring and alerting" reasons, RNP1 specification is required in case of radar service unavailability or degradation

**EKLIB 4E**

Path Terminator	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (kt)	Navigation Specification
IF	EKLIB	-	-	-	-	-	-	250	RNAV1/RNP1(1)
TF	ME768	-	214 (217.4)	-	4.0	-	+FL130	-	RNAV1/RNP1(1)
TF	ME760	-	214 (217.3)	-	8.0	-	+FL110	-	RNAV1/RNP1(1)
TF	OBFUL	-	214 (217.2)	-	5.0	-	+FL90	-	RNAV1/RNP1(1)
TF	OGVON	-	153 (156.4)	-	9.1	-	-FL90 +6000 (2)	230	RNAV1/RNP1(1)
TF	ME632	-	168 (171.1)	-	12.9	-	-FL90 +6000 (2)	220	RNAV1/RNP1(1)
TF	ME628	-	102 (105.4)	-	4.2	-	+6000	220	RNAV1/RNP1(1)
TF	ME624	-	082 (084.9)	-	4.2	-	-FL90 +6000	220	RNAV1/RNP1(1)
TF	ME620	-	062 (065.3)	-	4.2	-	-FL90 +6000	220	RNAV1/RNP1(1)
TF	ME616	-	042 (045.3)	-	4.2	-	-FL90 +6000	220	RNAV1/RNP1(1)
TF	ULVUN	Y	022 (025.4)	-	4.2	-	-FL90 +6000	220	RNAV1/RNP1(1)
TF	TIXUM	-	282 (285.4)	-	12.0	L	+6000	AT 210	RNAV1/RNP1(1)

- (1) For "monitoring and alerting" reasons, RNP1 specification is required in case of radar service unavailability or degradation  
(2) MEL80, or TRL if higher for RWY10 approach only

**ELBOD 1E (ATC discretion)**

Path Terminator	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (kt)	Navigation Specification
IF	ELBOD	-	-	-	-	-	-	-	RNAV1/RNP1(1)
TF	ME632	-	159 (161.6)	-	4.9	-	+6000	220	RNAV1/RNP1(1)
TF	ME628	-	102 (105.4)	-	4.2	-	+6000	220	RNAV1/RNP1(1)
TF	ME624	-	082 (084.9)	-	4.2	-	+6000	220	RNAV1/RNP1(1)
TF	ME620	-	062 (065.3)	-	4.2	-	+6000	220	RNAV1/RNP1(1)
TF	ME616	-	042 (045.3)	-	4.2	-	+6000	220	RNAV1/RNP1(1)
TF	ULVUN	Y	022 (025.4)	-	4.2	-	+6000	220	RNAV1/RNP1(1)
TF	TIXUM	-	282 (285.4)	-	12.0	L	+6000	AT 210	RNAV1/RNP1(1)

- (1) For "monitoring and alerting" reasons, RNP1 specification is required in case of radar service unavailability or degradation

**ODAMO 4E (ATC discretion)**

Path Terminator	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (kt)	Navigation Specification
IF	ODAMO	-	-	-	-	-	-	-	RNAV1/RNP1(1)
TF	ME632	-	177 (179.7)	-	7.2	-	+6000	220	RNAV1/RNP1(1)
TF	ME628	-	102 (105.4)	-	4.2	-	+6000	220	RNAV1/RNP1(1)
TF	ME624	-	082 (084.9)	-	4.2	-	+6000	220	RNAV1/RNP1(1)
TF	ME620	-	062 (065.3)	-	4.2	-	+6000	220	RNAV1/RNP1(1)
TF	ME616	-	042 (045.3)	-	4.2	-	+6000	220	RNAV1/RNP1(1)
TF	ULVUN	Y	022 (025.4)	-	4.2	-	+6000	220	RNAV1/RNP1(1)
TF	TIXUM	-	282 (285.4)	-	12.0	L	+6000	AT 210	RNAV1/RNP1(1)

(1) For "monitoring and alerting" reasons, RNP1 specification is required in case of radar service unavailability or degradation

**ODINA 4E**

Path Terminator	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (kt)	Navigation Specification
IF	ODINA	-	-	-	-	-	-	-	RNAV1/RNP1(1)
TF	ME872	-	118 (120.4)	-	33.9	-	+FL130	250	RNAV1/RNP1(1)
TF	ME860	-	118 (120.9)	-	12.0	-	+FL110	-	RNAV1/RNP1(1)
TF	OBFUL	-	118 (121.1)	-	5.0	-	+FL90	-	RNAV1/RNP1(1)
TF	OGVON	-	153 (156.4)	-	9.1	-	-FL90 +6000 (2)	230	RNAV1/RNP1(1)
TF	ME632	-	168 (171.1)	-	12.9	-	-FL90 +6000 (2)	220	RNAV1/RNP1(1)
TF	ME628	-	102 (105.4)	-	4.2	-	+6000	220	RNAV1/RNP1(1)
TF	ME624	-	082 (084.9)	-	4.2	-	-FL90 +6000	220	RNAV1/RNP1(1)
TF	ME620	-	062 (065.3)	-	4.2	-	-FL90 +6000	220	RNAV1/RNP1(1)
TF	ME616	-	042 (045.3)	-	4.2	-	-FL90 +6000	220	RNAV1/RNP1(1)
TF	ULVUN	Y	022 (025.4)	-	4.2	-	-FL90 +6000	220	RNAV1/RNP1(1)
TF	TIXUM	-	282 (285.4)	-	12.0	L	+6000	AT 210	RNAV1/RNP1(1)

(1) For "monitoring and alerting" reasons, RNP1 specification is required in case of radar service unavailability or degradation

(2) MEL80, or TRL if higher for RWY10 approach only

**OSBUL 4E**

Path Terminator	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (kt)	Navigation Specification
IF	OSBUL	-	-	-	-	-	-	250	RNAV1/RNP1(1)
TF	ATMIP	-	325 (327.8)	-	16.0	-	+6000	230	RNAV1/RNP1(1)
TF	ME732	-	325 (327.6)	-	13.0	-	-FL120 +6000	220	RNAV1/RNP1(1)
TF	ME628	-	002 (005.2)	-	4.2	-	+6000	220	RNAV1/RNP1(1)
TF	ME624	-	082 (084.9)	-	4.2	-	-FL90 +6000	220	RNAV1/RNP1(1)
TF	ME620	-	062 (065.3)	-	4.2	-	-FL90 +6000	220	RNAV1/RNP1(1)
TF	ME616	-	042 (045.3)	-	4.2	-	-FL90 +6000	220	RNAV1/RNP1(1)
TF	ULVUN	Y	022 (025.4)	-	4.2	-	-FL90 +6000	220	RNAV1/RNP1(1)
TF	TIXUM	-	282 (285.4)	-	12.0	L	+6000	AT 210	RNAV1/RNP1(1)

(1) For "monitoring and alerting" reasons, RNP1 specification is required in case of radar service unavailability or degradation

## OSKOR 4E

Path Terminator	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (kt)	Navigation Specification
IF	OSKOR	-	-	-	-	-	-	250	RNAV1/RNP1(1)
TF	ME760	-	287 (290.4)	-	15.0	-	+FL110	-	RNAV1/RNP1(1)
TF	OBFUL	-	214 (217.3)	-	5.0	-	+FL90	-	RNAV1/RNP1(1)
TF	OGVON	-	153 (156.4)	-	9.1	-	-FL90 +6000 (2)	230	RNAV1/RNP1(1)
TF	ME632	-	168 (171.1)	-	12.9	-	-FL90 +6000 (2)	220	RNAV1/RNP1(1)
TF	ME628	-	102 (105.4)	-	4.2	-	+6000	220	RNAV1/RNP1(1)
TF	ME624	-	082 (084.9)	-	4.2	-	-FL90 +6000	220	RNAV1/RNP1(1)
TF	ME620	-	062 (065.3)	-	4.2	-	-FL90 +6000	220	RNAV1/RNP1(1)
TF	ME616	-	042 (045.3)	-	4.2	-	-FL90 +6000	220	RNAV1/RNP1(1)
TF	ULVUN	Y	022 (025.4)	-	4.2	-	-FL90 +6000	220	RNAV1/RNP1(1)
TF	TIXUM	-	282 (285.4)	-	12.0	L	+6000	AT 210	RNAV1/RNP1(1)

- (1) For "monitoring and alerting" reasons, RNP1 specification is required in case of radar service unavailability or degradation  
(2) MEL80, or TRL if higher for RWY10 approach only

## Holding RNAV

Path Terminator	Waypoint Identifier	Inbound Course °M (°T)	Leg Distance (NM) (1)	Timing(min.)/ Waypoint Distance (NM) (2)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FL)	Speed Limit (kt)	Magnetic Variation (°)	Navigation Specification
HM	TIXUM	012 (015.0)	3.7	1/-	L	6000	-	-200	3 E	RNAV1/RNP1(3)
HM	OGVON	153 (156.0)	4.1	1/-	R	6000	-	-220	3 E	RNAV1/RNP1(3)
HM	ITVUN	078 (081.0)	4.3	1/-	L	6000	-	-230	3 E	RNAV1/RNP1(3)
HM	ULVUN	022 (025.0)	4.1	1/-	R	6000	-	-220	3 E	RNAV1/RNP1(3)
HM	ATMIP	325 (328.0)	4.3	1/-	L	6000	-	-230	3 E	RNAV1/RNP1(3)

- (1) RNAV system with holding functionality  
(2) RNAV system without holding functionality  
(3) For "monitoring and alerting" reasons, RNP1 specification is required in case of radar service unavailability or degradation

**WAYPOINT LIST**

<b>Waypoint Identifier</b>	<b>Coordinates</b>
ME616	45°22'59.95" N 010°11'44.13" E
ME620	45°20'04.21" N 010°07'31.75" E
ME624	45°18'19.71" N 010°02'09.69" E
ME628	45°17'57.77" N 009°56'16.45" E
ME632	45°19'04.31" N 009°50'34.50" E
ME732	45°13'48.48" N 009°55'44.39" E
ME740	45°12'06.89" N 009°46'34.68" E
ME760	45°44'09.51" N 009°46'52.13" E
ME768	45°50'31.27" N 009°53'47.28" E
ME860	45°42'45.36" N 009°36'26.56" E
ME872	45°48'56.43" N 009°21'45.02" E