

ROMA FIUMICINO STAR RNAV 1
RWY 16 L/R

ELKAP 3A

Path Terminator	Waypoint Name	Fly Over	Course °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (Kt)	Navigation Specification
IF	ELKAP	-	-	-	-	-	-	-270	RNAV 1
TF	BIBEK	-	119 (121.8)	-	31.8	-	+FL 190	-	RNAV 1
TF	GOPOL	-	096 (098.6)	-	14.9	-	-FL170 +FL150	-250	RNAV 1
TF	GIXOM	-	158 (160.9)	-	9.0	-	-	-230	RNAV 1
TF	USIRU	-	159 (162.2)	-	13.5	-	-	-220	RNAV 1
TF	GIPAP	-	069 (072.3)	-	7.0	L	-FL110 +FL90 (1)	-220	RNAV 1
TF	RF422	-	339 (342.4)	-	5.0	L	+FL 90 (2)	-220	RNAV 1
TF	RF423	-	339 (342.3)	-	5.0	-	-	-220	RNAV 1
TF	RF424	-	339 (342.3)	-	5.0	R	-	-220	RNAV 1
TF	RF426	-	069 (072.3)	-	7.0	R	-	-210	RNAV 1
TF	RF427	-	159 (162.4)	-	5.0	-	+FL90 (1)	-210	RNAV 1
TF	RF428	-	159 (162.4)	-	5.0	-	+6000FT	-210	RNAV 1
TF	SUVOK	-	159 (162.4)	-	5.0	-	+4000FT	AT 200	RNAV 1

ESINO 3A

Path Terminator	Waypoint Name	Fly Over	Course °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (Kt)	Navigation Specification
IF	ESINO	-	-	-	-	-	-	-270	RNAV 1
TF	LUNAK	-	007 (010.1)	-	19.4	-	-FL130	-250	RNAV 1
TF	BITNI	-	067 (069.6)	-	7.8	-	-	-230	RNAV 1
TF	GIPAP	-	339 (342.5)	-	21.1	-	-FL110 +FL90 (1)	-220	RNAV 1
TF	RF422	-	339 (342.4)	-	5.0	-	+FL 90 (2)	-220	RNAV 1
TF	RF423	-	339 (342.3)	-	5.0	-	-	-220	RNAV 1
TF	RF424	-	339 (342.3)	-	5.0	-	-	-220	RNAV 1
TF	RF426	-	069 (072.3)	-	7.0	R	-	-210	RNAV 1
TF	RF427	-	159 (162.4)	-	5.0	R	+FL90 (1)	-210	RNAV 1
TF	RF428	-	159 (162.4)	-	5.0	-	+6000FT	-210	RNAV 1
TF	SUVOK	-	159 (162.4)	-	5.0	-	+4000FT	AT 200	RNAV 1

GILIO 3A

Path Terminator	Waypoint Name	Fly Over	Course °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (Kt)	Navigation Specification
IF	GILIO	-	-	-	-	-	-	-250	RNAV 1
TF	BIBEK	-	070 (072.8)	-	15.1	-	-	-	RNAV 1
TF	GOPOL	-	096 (098.6)	-	14.9	-	-FL170 +FL150	-	RNAV 1
TF	GIXOM	-	158 (160.9)	-	9.0	-	-	-230	RNAV 1
TF	USIRU	-	159 (162.2)	-	13.5	-	-	-220	RNAV 1
TF	GIPAP	-	069 (072.3)	-	7.0	L	-FL110 +FL90 (1)	-220	RNAV 1
TF	RF422	-	339 (342.4)	-	5.0	L	+FL 90 (2)	-220	RNAV 1
TF	RF423	-	339 (342.3)	-	5.0	-	-	-220	RNAV 1
TF	RF424	-	339 (342.3)	-	5.0	-	-	-220	RNAV 1
TF	RF426	-	069 (072.3)	-	7.0	R	-	-210	RNAV 1
TF	RF427	-	159 (162.4)	-	5.0	R	+FL90 (1)	-210	RNAV 1
TF	RF428	-	159 (162.4)	-	5.0	-	+6000FT	-210	RNAV 1
TF	SUVOK	-	159 (162.4)	-	5.0	-	+4000FT	AT 200	RNAV 1

LAT 3A

Path Terminator	Waypoint Name	Fly Over	Course °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (Kt)	Navigation Specification
IF	LAT	-	-	-	-	-	-FL160	-250	RNAV 1
IF	RF414	-	314 (316.9)	-	10.7	-	+FL 90	-	RNAV 1
TF	RMC	-	314 (316.8)	-	11.0	-	-	-	RNAV 1
TF	TUVEL	-	312 (314.8)	-	8.0	-	-	-230	RNAV 1
TF	URUXO	-	340 (342.7)	-	13.7	-	-	-220	RNAV 1
TF	VAKAB	-	339 (342.7)	-	4.3	-	-FL90 +6000FT (3)	-220	RNAV 1
TF	RF442	-	339 (342.7)	-	5.0	-	+6000FT (2)	-220	RNAV 1
TF	RF443	-	339 (342.7)	-	5.0	-	-	-220	RNAV 1
TF	RF444	-	339 (342.6)	-	5.0	-	-	-220	RNAV 1
TF	RF446	-	249 (252.6)	-	7.0	L	-	-210	RNAV 1
TF	RF447	-	159 (162.5)	-	5.0	L	-	-210	RNAV 1
TF	RF448	-	159 (162.5)	-	5.0	-	+6000FT	-210	RNAV 1
TF	EXAMA	-	159 (162.6)	-	5.0	-	+4000FT	AT 200	RNAV 1

MOPUV 3A

Path Terminator	Waypoint Name	Fly Over	Course °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (Kt)	Navigation Specification
IF	MOPUV	-	-	-	-	-	-	-250	RNAV 1
TF	DESUK	-	236 (239.3)	-	7.6	-	-FL 160	-230	RNAV 1
TF	RF412	-	242 (245.3)	-	16.1	-	+FL 110	-	RNAV 1
TF	RMC	-	242 (245.1)	-	11.0	-	-	-	RNAV 1
TF	TUVEL	-	312 (314.8)	-	8.0	-	-	-	RNAV 1
TF	URUXO	-	340 (342.7)	-	13.7	-	-	-220	RNAV 1
TF	VAKAB	-	339 (342.7)	-	4.3	-	-FL90 +6000FT (3)	-220	RNAV 1
TF	RF442	-	339 (342.7)	-	5.0	-	+6000FT (2)	-220	RNAV 1
TF	RF443	-	339 (342.7)	-	5.0	-	-	-220	RNAV 1
TF	RF444	-	339 (342.6)	-	5.0	-	-	-220	RNAV 1
TF	RF446	-	249 (252.6)	-	7.0	L	-	-210	RNAV 1
TF	RF447	-	159 (162.5)	-	5.0	L	-	-210	RNAV 1
TF	RF448	-	159 (162.5)	-	5.0	-	+6000FT	-210	RNAV 1
TF	EXAMA	-	159 (162.6)	-	5.0	-	+4000FT	AT 200	RNAV 1

RITEB 3A

Path Terminator	Waypoint Name	Fly Over	Course °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (Kt)	Navigation Specification
IF	RITEB	-	-	-	-	-	-FL190 +FL150	-250	RNAV 1
TF	RAVUX	-	146 (149.4)	-	15.5	-	+FL 100	-	RNAV 1
TF	LIGBU	-	146 (149.5)	-	8.0	-	+FL 90	-230	RNAV 1
TF	ESALU	-	159 (162.6)	-	8.9	-	-	-220	RNAV 1
TF	VAKAB	-	249 (252.8)	-	7.0	R	-FL90 +6000FT (3)	-220	RNAV 1
TF	RF442	-	339 (342.7)	-	5.0	R	+6000FT (2)	-220	RNAV 1
TF	RF443	-	339 (342.7)	-	5.0	-	-	-220	RNAV 1
TF	RF444	-	339 (342.6)	-	5.0	-	-	-220	RNAV 1
TF	RF446	-	249 (252.6)	-	7.0	L	-	-210	RNAV 1
TF	RF447	-	159 (162.5)	-	5.0	L	-	-210	RNAV 1
TF	RF448	-	159 (162.5)	-	5.0	-	+6000FT	-210	RNAV 1
TF	EXAMA	-	159 (162.6)	-	5.0	-	+4000FT	AT 200	RNAV 1

VALMA 3A

Path Terminator	Waypoint Name	Fly Over	Course °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (Kt)	Navigation Specification
IF	VALMA	-	-	-	-	-	-	-270	RNAV 1
TF	LUNAK	-	066 (069.3)	-	21.6	-	-FL130	-250	RNAV 1
TF	BITNI	-	067 (069.6)	-	7.8	L	-	-230	RNAV 1
TF	GIPAP	-	339 (342.5)	-	21.1	-	-FL110 +FL90 (1)	-220	RNAV 1
TF	RF422	-	339 (342.4)	-	5.0	-	+FL 90 (2)	-220	RNAV 1
TF	RF423	-	339 (342.3)	-	5.0	-	-	-220	RNAV 1
TF	RF424	-	339 (342.3)	-	5.0	-	-	-220	RNAV 1
TF	RF426	-	069 (072.3)	-	7.0	R	-	-210	RNAV 1
TF	RF427	-	159 (162.4)	-	5.0	R	+FL90 (1)	-210	RNAV 1
TF	RF428	-	159 (162.4)	-	5.0	-	+6000FT	-210	RNAV 1
TF	SUVOK	-	159 (162.4)	-	5.0	-	+4000FT	AT 200	RNAV 1

XIBIL 3A

Path Terminator	Waypoint Name	Fly Over	Course °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (Kt)	Navigation Specification
IF	XIBIL	-	-	-	-	-	-	-270	RNAV 1
TF	IPLEK	-	119 (122.6)	-	28.0	-	+FL 190	-	RNAV 1
TF	GOPOL	-	158 (160.8)	-	8.9	-	-FL170 +FL150	-250	RNAV 1
TF	GIXOM	-	158 (160.9)	-	9.0	-	-	-230	RNAV 1
TF	USIRU	-	159 (162.2)	-	13.5	-	-	-220	RNAV 1
TF	GIPAP	-	069 (072.3)	-	7.0	L	-FL110 +FL90 (1)	-220	RNAV 1
TF	RF422	-	339 (342.4)	-	5.0	L	+FL 90 (2)	-220	RNAV 1
TF	RF423	-	339 (342.3)	-	5.0	-	-	-220	RNAV 1
TF	RF424	-	339 (342.3)	-	5.0	-	-	-220	RNAV 1
TF	RF426	-	069 (072.3)	-	7.0	R	-	-210	RNAV 1
TF	RF427	-	159 (162.4)	-	5.0	R	+FL90 (1)	-210	RNAV 1
TF	RF428	-	159 (162.4)	-	5.0	-	+6000FT	-210	RNAV 1
TF	SUVOK	-	159 (162.4)	-	5.0	-	+4000FT	AT 200	RNAV 1

REMARKS

- (1) MEA 6000FT ATC Discretion
(2) MEA 4000FT ATC Discretion
(3) VAKAB between +5000ft and -FL90 only for direct routing to EXAMA

HOLDING RNAV 1

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	DE Suk	236 (239)	6	-/8.2	R	FL130	-	-230	3	RNAV1
HM	ELKAP	090 (093)	8	-/10.8	R	FL190	-	-240	3	RNAV1
HM	ESINO	035 (038)	4	-/5.5	R	6000	-	-230	3	RNAV1
HM	EXAMA	159 (162)	3	-/4	L	4000 (3)	-	-190	3	RNAV1
HM	GIPAP	069 (072)	4	-/5.5	L	6000	-	-210	3	RNAV1
HM	GO POL	096 (099)	5	-/7	R	6000	-	-230	3	RNAV1
HM	LAT	267 (270)	5	-/7	R	FL90	-	-230	3	RNAV1
HM	RAVUX	146 (149)	5	-/7	R	FL100	-	-230	3	RNAV1
HM	RITEB	161 (164)	5	-/7	R	FL110	-	-220	3	RNAV1
HM	SUVOK	159 (162)	3	-/4	R	4000 (4)	-	-185	3	RNAV1
HM	VAKAB	249 (252)	4	5.5	R	6000	-	-210	3	RNAV1
HM	VALMA	066 (069)	4	5.5	L	6000	-	-230	3	RNAV1
HM	XIBIL (ATC DISCRETION)	120 (123)	8	10.8	L	FL190	-	-240	3	RNAV1

(1) RNAV system with holding functionality

(2) RNAV system without holding functionality

(3) ATC DISCRETION below 6000FT

(4) ATC DISCRETION above 4000FT

WAYPOINT LIST

Waypoint Identifier	Coordinates
RF401	42°01'12.1"N 012°51'10.2"E
RF412	41°52'55.9"N 012°48'37.2"E
RF414	41°40'15.6"N 012°45'21.2"E
RF422	42°09'44.8"N 011°51'23.9"E
RF423	42°14'30.6"N 011°49'21.5"E
RF424	42°19'16.4"N 011°47'18.8"E
RF426	42°21'24.0"N 011°56'19.0"E
RF427	42°16'38.0"N 011°58'21.2"E
RF428	42°11'52.0"N 012°00'23.0"E
RF442	42°15'52.0"N 012°18'31.4"E
RF443	42°20'38.4"N 012°16'30.8"E
RF444	42°25'24.7"N 012°14'29.8"E
RF446	42°23'18.6"N 012°05'28.3"E
RF447	42°18'32.4"N 012°07'29.9"E
RF448	42°13'46.2"N 012°09'31.1"E