

ENR 3.2.4 R 系列航路 Air routes of Series R

航路代号、重要点名称、类型、识别 Route designator/Significant Point Name, Type, Identification			重要点坐标 Significant Point Coordinates		
导航规范 Navigation specification	航迹 (磁) 距离 (千米) Track(MAG) DIST(km)	最低飞行 高度 (米) MNM flight altitude(m)	航路宽度 (千米) Lateral limits(km)	航段方向 Direction of segment	管制单位、备注 Controlling unit Remarks
R200					
▲ OLDID			N23° 00' 00" E117° 30' 00"		
RNAV2	270° /090° 12	1 121		↓ ↑	OLDID:Taibei FIR/Guangzhou ACC LAPUG:Guangzhou ACC
▲ LAPUG			N22° 59.7' E117° 22.8'		
RNAV2	270° /090° 104	1 121		↓ ↑	Guangzhou ACC
▲ BEBEM			N22° 57.0' E116° 21.6'		
RNAV2	266° /086° 49	1 205		↓ ↑	Guangzhou ACC
▲ SUMDO			N22° 54.0' E115° 52.9'		
RNAV2	266° /086° 117	1 936		↓ ↑	Guangzhou ACC
▲ OVGOT			N22° 47.0' E114° 45.0'		
RNAV2	266° /086° 22	1 936		↓ ↑	Guangzhou ACC
▲ VIPAP			N22° 45.7' E114° 31.9'		
RNAV2	266° /086° 51	1 604		↓ ↑	Guangzhou ACC
▲ 观澜 Guanlan VOR/DME(GLN)			N22° 42.5' E114° 02.0'		
RNAV2	229° /049° 80	1 543		↓ ↑	Guangzhou ACC
▲ 连胜围 Lianshengwei VOR/DME(ZUH)			N22° 13.3' E113° 28.0'		
RNAV2	249° /069° 25	1 535		↓ ↑	Guangzhou ACC
▲ KIBAS			N22° 08.3' E113° 14.5'		
RNAV2	249° /069° 27	1 535		↓ ↑	Guangzhou ACC
▲ BOKAT			N22° 02.3' E113° 00.0'		
RNAV2	249° /069° 20	1 535		↓ ↑	Guangzhou ACC
▲ ADBIN			N21° 58.1' E112° 49.3'		
RNAV2	249° /069° 31	1 535		↓ ↑	Guangzhou ACC
▲ TOMUD			N21° 51.5' E112° 32.8'		
RNAV2	249° /069° 81	1 535		↓ ↑	Guangzhou ACC
▲ BIGRO			N21° 34.2' E111° 49.6'		
RNAV2	254° /074° 162	1 415		↓ ↑	Sanya ACC(Above 7 800m) Zhangjiang ACC(7 800 or below)

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▲湖光 Huguang NDB(LH)			N21° 08.1′ E110° 20.0′		
飞越 OLDID 高度 8 400 米 (不含) 以上。 Altitudes over OLDID above 8 400m.					
R213					
▲佳木斯 Jiamusi VOR/DME(JMU)			N46° 50.5′ E130° 27.9′		
RNAV2	---/220° 108	1 088		↑	Shenyang ACC(9 800m or above) Harbin ACC(below 9 800m)
▲ MAGIT 中俄国境点			N47° 41.5′ E131° 09.0′		
R224					
▲延吉 Yanji VOR/DME(YNJ)			N42° 53.0′ E129° 27.1′		
RNAV2	163° /343° 52	1 965		↓ ↑	Shenyang ACC VASRO:Shenyang ACC/Pyongyang FIR
▲ VASRO 中朝国境点			N42° 27.8′ E129° 44.4′		
R339					
▲ SIKOU			N20° 50.6′ E111° 30.0′		
RNAV2	287° /107° 48	833		↓ ↑	Sanya ACC(Above 7 800m) Zhanjiang ACC(7 800m or below)
▲ GIVIV			N20° 57.2′ E111° 03.3′		
RNAV2	287° /107° 77	833		↓ ↑	Sanya ACC(Above 7 800m) Zhanjiang ACC(7 800m or below)
▲湖光 Huguang NDB(LH)			N21° 08.1′ E110° 20.0′		
RNAV2	300° /120° 106	866		↓ ↑	湖光 Huguang NDB: Sanya ACC(Above 7 800m) Zhanjiang ACC(7 800m or below) 南康 Nankang VOR/DME: Sanya ACC(Above 8 900m) Zhanjiang ACC(8 900m or below)
▲南康 Nankang VOR/DME(BHY)			N21° 35.2′ E109° 25.9′		
RNAV2	312° /132° 46	1 016		↓ ↑	Sanya ACC(Above 8 900m) Zhanjiang ACC(8 900m or below)
▲ ALEKI			N21° 51.0′ E109° 05.7′		
RNAV2	312° /132° 46	1 229		↓ ↑	Nanning ACC
▲ NIKUK			N22° 07.0′ E108° 45.1′		
RNAV2	312° /132° 81	1 229		↓ ↑	Nanning ACC
▲南宁 Nanning VOR/DME(WUY)			N22° 35.1′ E108° 08.9′		
RNAV2	315° /135° 72	1 595		↓ ↑	Nanning ACC
▲ UVUNO			N23° 01.8′ E107° 38.5′		

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RNAV2	315° /135° 140	1 686		↓ ↑	Nanning ACC
▲百色 Bose VOR/DME(BSE)			N23° 53.5′ E106° 38.7′		
R343					
▲南翔 Nanxiang NDB(PK)			N31° 17.0′ E121° 19.8′		
RNAV2	295° /115° 22	1 232		↓ ↑	Shanghai ACC
▲ EKIMU			N31° 21.1′ E121° 06.6′		
RNAV2	295° /115° 79	1 232		↓ ↑	Shanghai ACC
▲ SASAN			N31° 35.4′ E120° 19.2′		
RNAV2	278° /098° 61	1 058		↓ ↑	Shanghai ACC
▲ ESBAG			N31° 37.2′ E119° 40.4′		
RNAV2	278° /098° 50	1 058	14	↓ ↑	Shanghai ACC
▲ LUPVI			N31° 38.7′ E119° 08.6′		
RNAV2	278° /098° 10	1 059	14	↓ ↑	Shanghai ACC
▲ OLRIS			N31° 39.0′ E119° 02.4′		
RNAV2	280° /100° 5	1 059	14	↓ ↑	Shanghai ACC
▲ UPLEL			N31° 39.3′ E118° 59.3′		
RNAV2	280° /100° 84	1 059	14	↓ ↑	Shanghai ACC
▲ MADUK			N31° 43.1′ E118° 06.3′		
RNAV2	280° /100° 76	1 080	14	↓ ↑	Shanghai ACC(Above 7 800m) Hefei ACC(7 800m or below)
▲骆岗 Luogang VOR/DME(HFE)			N31° 46.5′ E117° 18.1′		
RNAV2	254° /074° 29	1 031	20	↓ ↑	Shanghai ACC(Above 7 800m) Hefei ACC(7 800m or below)
▲ UXALO			N31° 41.1′ E117° 00.5′		
RNAV2	254° /074° 115	2 250	20	↓ ↑	Shanghai ACC(Above 7 800m) Hefei ACC(7 800m or below)
▲ MIDOX			N31° 19.3′ E115° 52.9′		
RNAV2	254° /074° 61	2 250	20	↓ ↑	Guangzhou ACC(Above 7 800m) Wuhan ACC(7 800m or below)
▲ BIVIP			N31° 07.7′ E115° 16.8′		
RNAV2	254° /074° 83	1 756	20	↓ ↑	Guangzhou ACC(Above 7 800m) Wuhan ACC(7 800m or below)

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▲ SAGUD			N30° 51.9'	E114° 27.6'	
RNAV2	254° /074° 26	1 200	20	↓ ↑	Guangzhou ACC(Above 7 800m) Wuhan ACC(7 800m or below)
▲ 天河 Tianhe VOR/DME(WHA)			N30° 46.9'	E114° 12.2'	
RNAV2	211° /031° 109	954	20	↓ ↑	Guangzhou ACC(Above 7 800m) Wuhan ACC(7 800m or below)
▲ 龙口 Longkou VOR/DME(LKO)			N29° 54.4'	E113° 41.5'	
RNAV2	218° /038° 75	1 248	20	↓ ↑	Guangzhou ACC(Above 7 800m) Wuhan ACC(7 800m or below)
▲ GOSMA			N29° 21.2'	E113° 14.5'	
RNAV2	218° /038° 164	1 447	20	↓ ↑	Guangzhou ACC(Above 7 800m) Changsha ACC(7 800m or below)
▲ BEMTA			N28° 08.9'	E112° 16.4'	
RNAV2	218° /038° 11	1 447	20	↓ ↑	Guangzhou ACC(Above 7 800m) Changsha ACC(7 800m or below)
▲ 老粮仓 Laoliangcang VOR/DME(LLC)			N28° 04.1'	E112° 12.5'	
RNAV2	214° /034° 11	1 544	20	↓ ↑	Guangzhou ACC(Above 7 800m) Changsha ACC(7 800m or below)
▲ PUKAD			N27° 59.1'	E112° 09.1'	
RNAV2	214° /034° 106	2 085	20	↓ ↑	Guangzhou ACC(Above 7 800m) Changsha ACC(7 800m or below)
▲ VIGIS			N27° 10.4'	E111° 35.2'	
RNAV2	214° /034° 33	1 598	20	↓ ↑	Guangzhou ACC(Above 7 800m) Changsha ACC(7 800m or below)
▲ NUPTI			N26° 55.1'	E111° 25.1'	
RNAV2	214° /034° 152	2 647	20	↓ ↑	Guangzhou ACC(Above 7 800m) Changsha ACC(7 800m or below)
▲ ONEMI			N25° 45.1'	E110° 36.5'	
RNAV2	214° /034° 25	2 741	20	↓ ↑	Guangzhou ACC(Above 7 800m) Guilin ACC(7 800m or below)
▲ 大榕江 Darongjiang NDB(VQ)			N25° 33.7'	E110° 28.6'	
RNAV2	216° /036° 48	2 198	20	↓ ↑	Guangzhou ACC(Above 7 800m) Guilin ACC(7 800m or below)
▲ MAMSI			N25° 12.3'	E110° 12.7'	
RNAV2	216° /036° 71	2 198	20	↓ ↑	Guangzhou ACC(Above 7 800m) Guilin ACC(7 800m or below)
▲ ENKUS			N24° 40.7'	E109° 49.2'	
RNAV2	216° /036° 122	1 495	20	↓ ↑	Nanning ACC
▲ 来宾 Laibin VOR/DME(LBN)			N23° 45.8'	E109° 08.8'	

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RNAV2	219° /039° 73	1 650	20	↓ ↑	Nanning ACC
▲ SARUG			N23° 14.8′ E108° 42.4′		
RNAV2	219° /039° 93	1 650	20	↓ ↑	Nanning ACC
▲ 南宁 Nanning VOR/DME(WUY)			N22° 35.1′ E108° 08.9′		
R471					
▲ KATBO 中越国境点			N23° 21.6′ E105° 17.5′		
RNAV2	356° /176° 96	2 555		↓ ↑	Kunming ACC
▲ ADBAG			N24° 13.3′ E105° 13.0′		
R473					
▲ 醴陵 Liling VOR/DME(LIG)			N27° 38.9′ E113° 31.0′		
RNAV2	168° /348° 37	1 672		↓ ↑	Guangzhou ACC(Above 7 800m) Changsha ACC(7 800m or below)
▲ NIVEM			N27° 19.9′ E113° 36.7′		
RNAV2	168° /348° 151	2 670		↓ ↑	Guangzhou ACC(Above 7 800m) Changsha ACC(7 800m or below)
▲ BEMAG			N26° 01.1′ E114° 00.1′		
RNAV2	168° /348° 106	2 605		↓ ↑	Guangzhou ACC
▲ 南雄 Nanxiong VOR/DME(NNX)			N25° 05.7′ E114° 16.4′		
RNAV2	194° /014° 85	2 028	8	↓ ↑	Guangzhou ACC
▲ 翁源 Wengyuan VOR/DME(WYN)			N24° 21.0′ E114° 06.7′		
RNAV2	215° /035° 32	1 845	8	↓ ↑	Guangzhou ACC
▲ NOLON			N24° 06.5′ E113° 56.8′		
RNAV2	215° /035° 68	1 845	8	↓ ↑	Guangzhou ACC
▲ 从化 Conghua VOR/DME(CON)			N23° 35.3′ E113° 35.2′		
RNAV2	215° /035° 75	1 810	8	↓ ↑	Guangzhou ACC
▲ 平洲 Pingzhou VOR/DME(POU)			N23° 01.3′ E113° 11.4′		
RNAV2	165° /345° 46	944		↓ ↑	Guangzhou ACC
▲ VIBOS			N22° 37.5′ E113° 19.7′		
RNAV2	165° /345° 47	1 181		↓ ↑	Guangzhou ACC
▲ 连胜围 Lianshengwei VOR/DME(ZUH)			N22° 13.3′ E113° 28.0′		

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RNAV2	163° /--- 28	1 181		↓	Guangzhou ACC
▲ SIERA			N21° 59.1′ E113° 33.2′		
R474					
▲ 高要 Gaoyao VOR/DME(GYA)			N23° 04.2′ E112° 29.2′		
RNAV2	265° /085° 199	1 811		↓ ↑	Guangzhou ACC
▲ OSIKA			N22° 51.3′ E110° 33.2′		
RNAV2	265° /085° 148	1 875		↓ ↑	Nanning ACC
▲ VAPNA			N22° 41.7′ E109° 07.3′		
RNAV2	265° /085° 100	1 875		↓ ↑	Nanning ACC
▲ 南宁 Nanning VOR/DME(WUY)			N22° 35.1′ E108° 08.9′		
RNAV2	261° /081° 94	1 645	20	↓ ↑	Nanning ACC
▲ XEREN			N22° 25.6′ E107° 15.3′		
RNAV2	261° /081° 40	1 645	20	↓ ↑	Nanning ACC
▲ 龙州 Longzhou VOR/DME(LON)			N22° 21.4′ E106° 52.1′		
RNAV2	226° /046° 28	1 645	20	↓ ↑	Nanning ACC TEBAK:Nanning ACC/Hanoi FIR
▲ TEBAK 中越国境点			N22° 10.5′ E106° 40.5′		
公、英制高度转换区: TEBAK 至国境以内 80km。 FEET/METERS Transitional area: From TEBAK to the point of 80km in the territory of China.					
R596					
▲ 云和 Yunhe NDB(BZ)			N28° 06.1′ E119° 33.7′		
RNAV2	114° /294° 112	2 193		↓ ↑	Shanghai ACC(Above 6 000m)
▲ 东山 Dongshan VOR/DME(DST)			N27° 45.0′ E120° 37.8′		
RNAV2	105° /285° 95	1 348		↓ ↑	Shanghai ACC(Above 6 000m)
▲ OKATO			N27° 35.1′ E121° 34.6′		
RNAV2	105° /285° 85	600		↓ ↑	OKATO: Shanghai ACC(Above 6 000m) SULEM: Shanghai ACC/Taibei FIR
▲ SULEM			N27° 26′ 20″ E122° 25′ 19″		

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<p>在东山 VOR 与 SULEM 之间飞行员应全程开启应答机和 TCAS 系统; Pilot shall operate transponder and TCAS between DST and SULEM at all time;</p> <p>OKATO 与 SULEM 以西 5 海里之间为上海飞行情报区公制 RVSM 高度层配备和台北飞行情报区英制 RVSM 高度层配备转换区域; Segment between OKATO and 5NM west of SULEM is transition area between Metric RVSM FLAS in Shanghai FIR and Feet RVSM FLAS in Taipei FIR;</p> <p>云和 NDB 至 SULEM 使用西向飞行高度层; SULEM 至云和 NDB 使用东向飞行高度层; BZ to SULEM allocated westbound flight level; SULEM to BZ allocated eastbound flight level;</p> <p>向东飞行的航空器过 SULEM 使用 FL240/280/340 高度层; 向西飞行的航空器过 SULEM 使用 FL250/290/370 高度层。 A/C to eastbound shall use FL240/280/340 over SULEM; A/C to westbound shall use FL250/290/370 over SULEM.</p> <p>航线高度 6 000 米至 12 500 米。 En-route altitude 6 000m—12 500m.</p>					