

FRANKFURT MAIN
RWY 25L / 25C
SIDs with Route Designator **NOVEMBER**

STANDARD DEPARTURE
ROUTES – INSTRUMENT
(SID)

1. Between 0600 (0500) and 2100 (2000):

1.1. Aircraft via **BIBTI, MARUN, TOBAK** shall use SIDs with designators:

- **MIKE** for 3- and 4-engined **HEAVY** and **SUPER** aircraft and all **MEDIUM** and **LIGHT** aircraft **able to comply** with the climb restrictions;
- **JULIETT** for 2-engined **HEAVY** aircraft **able to comply** with the climb restrictions, if unable file **GOLF**;
- **FOXTROT** (by ATC only) for **MEDIUM** and **LIGHT** aircraft **able to comply** with the climb restrictions;
- **GOLF** for all aircraft **unable to comply** with climb restrictions.

1.2. Traffic to all other directions shall use SIDs with designators:

- **FOXTROT** for all **MEDIUM** and **LIGHT** aircraft;
- **GOLF** for all **HEAVY** and **SUPER** aircraft.

2. Between 2100 (2000) and 0600 (0500):

2.1. All 3- and 4-engined jet aircraft, except Avroliner, BAe 146, FA 50 and FA 90, via **BIBTI, MARUN, TOBAK & SOBRA** shall use SIDs with designator **NOVEMBER**.

2.2. Single- and twin-engined aircraft shall use SIDs according to **paragraphs 1 and 3**.

3. SIDs with designator **PAPA** may be used by **single and twin-engined propeller-driven** aircraft and **DASH 7** only.

4. **NON-RNAV (enroute only)** equipped aircraft shall use SIDs with designator **QUEBEC**.

Designator	Route	After Take-Off		Remarks
		Climb to	Contact	
1	2	3	4	5
BIBTI 4N	BIBTI FOUR NOVEMBER On RWY track to 4.5 DME FFM/1.5 DME FRD or 800, whichever is later; LT (MAX IAS 220 KT until established on track 184°), on track 184° to intercept R223 FFM; on R223 FFM to 14.0 DME FFM; RT, on R301 RID to 16.0 DME RID; RT, on track 318° to MASIR; RT, on track 335° via RAVKI and DITAM; LT, on track 326° via OBOKA to BIBTI (Δ). GPS/FMS RNAV: [A800+] - DF134 (25C)[L] / DF135 (25L)[L] - DF162 (25C)[K220-] / DF165 (25L)[K220-] - DF166[R] - DF164[R] - KUPIP[R] - MASIR[R] - RAVKI - DITAM[L] - OBOKA - BIBTI.	5000 ft	Langen Radar 120.150*	1. Flights via BIBTI and UZ28/UZ29 to UK or beyond, except for flights terminating within LONDON TMA. 2. Flights via UZ29 have to cross BIBTI at FL 250 or above. If unable to comply, request routing via UZ28 crossing BIBTI at FL 210 or above. 3. Also for flights destination EDDK or continuing VFR after OBOKA / BIBTI. Traffic with DEST EDDK shall file SID BIBTI - OBOKA - DCT. In case of radio communication failure, flights with DEST EDDK shall proceed OBOKA - COL or OBOKA - WYP depending on RWY in use. 4. After 16.0 DME RID BRNAV equipment necessary.
MARUN 5N	MARUN FIVE NOVEMBER On RWY track to 4.5 DME FFM/1.5 DME FRD or 800, whichever is later; LT (MAX IAS 220 KT until established on track 184°), on track 184° to intercept R223 FFM; on R223 FFM to 14.0 DME FFM; RT, on R301 RID to 16.0 DME RID; RT, on track 023° to TABUM; LT, on track 018° to LIKSI; LT, on track 016° via LORPA to MARUN (Δ). GPS/FMS RNAV: [A800+] - DF134 (25C)[L] / DF135 (25L)[L] - DF162 (25C)[K220-] / DF165 (25L)[K220-] - DF166[R] - DF164[R] - KUPIP[R] - TABUM[L] - LIKSI[L] - LORPA - MARUN.			After 16.0 DME RID BRNAV equipment necessary.
SOBRA 5N	SOBRA FIVE NOVEMBER On RWY track to 4.5 DME FFM/1.5 DME FRD or 800, whichever is later; LT (MAX IAS 220 KT until established on track 184°), on track 184° to intercept R223 FFM; on R223 FFM to 20.6 DME FFM; RT, on track 283° via DONAB to SOBRA (Δ). GPS/FMS RNAV: [A800+] - DF134 (25C)[L] / DF135 (25L)[L] - DF162 (25C)[K220-] / DF165 (25L)[K220-] - DF166[R] - DF201[R] - DONAB - SOBRA.			1. For flights intending to proceed at FL 250 or above via Y180/Y181. Flights have to be able to cross RUDOT at FL 240 or above. If unable to comply, flight plan shall read RUDOT FL 220 - Y180 - DIK RFL. 2. After 20.6 DME FFM BRNAV equipment necessary.
TOBAK 7N	TOBAK SEVEN NOVEMBER On RWY track to 4.5 DME FFM/1.5 DME FRD or 800, whichever is later; LT (MAX IAS 220 KT until established on track 184°), on track 184° to intercept R223 FFM; on R223 FFM to 14.0 DME FFM; RT, on R301 RID to 16.0 DME RID; RT, on track 023° to TABUM; RT, on track 040° to TESGA; LT, on track 038° to TOBAK (Δ). GPS/FMS RNAV: [A800+] - DF134 (25C)[L] / DF135 (25L)[L] - DF162 (25C)[K220-] / DF165 (25L)[K220-] - DF166[R] - DF164[R] - KUPIP[R] - TABUM[R] - TESGA[L] - TOBAK.			1. After 16.0 DME RID BRNAV equipment necessary. 2. Not for flights continuing via Z10.

(Sample: DF134 fly-over way point)

* Departure frequency may deviate from the frequency published.
Check ATIS for current departure frequency.

Contact LANGEN RADAR when advised by Tower!