

FRANKFURT-HAHN
RWY 21

STANDARD DEPARTURE
ROUTES – INSTRUMENT
(SID)

Designator	Route	After Take-Off		Remarks
		Climb to	Contact	
1	2	3	4	5
MAKIK 1Y	MAKIK ONE YANKEE On track 213° HAN to 11.0 DME HND, RT, on track 344° to RUDOT (Δ), LT, on track 267° to BITBU (Δ), LT, on track 266° to MAKIK (Δ). Climb with 3.5% (215 ft/NM) or more until passing 1900. Cross 11.0 DME HND at 5000 or above. GPS/FMS RNAV: [A2100+] - FH076[A5000+; R] - FH078 - RUDOT[L] - BITBU[L] - MAKIK.	5000 ft	Langen Radar 125.600	<ol style="list-style-type: none"> 1. PDG 3.5% (215 ft/NM) or more due to obstacles. 2. PDG 5.7% (345 ft/NM) or more until passing 5000 due to airspace structure and NLFS. If unable to comply, inform ATC. 3. After 11.0 DME HND BRNAV equipment necessary.
NOR 4S	NÖRVENICH FOUR SIERRA On track 213° HAN to 6.0 DME HND, RT, on track 345° to NOR (Δ). Climb with 3.5% (215 ft/NM) or more until passing 1900. Cross 6.0 DME HND at 4200 or above. GPS/FMS RNAV: [A2100+] - FH070[R] - FH073 - NOR.			<ol style="list-style-type: none"> 1. Not to be filed in FPL. 2. Will be assigned by ATC. 3. Not to be used during activity of NLFS. 4. PDG 3.5% (215 ft/NM) or more due to obstacles. 5. PDG 7.8% (472 ft/NM) or more until passing 4200 due to airspace structure. If unable to comply, inform ATC. 6. After 6.0 DME HND BRNAV equipment necessary.
RIDSU 1S	RIDSU ONE SIERRA On track 213° HAN to 6.0 DME HND, RT to SOMIM (Δ); RT, on track 102° via ABSIX to ULKIG (Δ), RT, on track 103° via SOBRA and DONAB to RIDSU (Δ). Climb with 3.5% (215 ft/NM) or more until passing 1900. Cross 5.0 NM prior ULKIG at or above FL120. GPS/FMS RNAV: [A2100+] - FH070[R] - FH071 - SOMIM[R] - ABSIX - ULKIG[F120+; R] - SOBRA - DONAB[F120+] - RIDSU.			<ol style="list-style-type: none"> 1. Only available for flights via DONAB at or above FL120. If unable to comply, request alternate departure instructions by ATC. 2. Not to be used during activity of NLFS. 3. PDG 3.5% (215 ft/NM) or more due to obstacles. 4. Flights have to be able to cross 5.0 NM prior ULKIG at or above FL120. If unable to comply, request RIDSU 1L. 5. PDG 5.2% (315 ft/NM) or more until passing FL120 due to airspace structure. 6. After 6.0 DME HND BRNAV equipment necessary.
RIDSU 1L	RIDSU ONE LIMA On track 213° HAN to 11.0 DME HND, RT to SOMIM (Δ); RT, on track 102° via ABSIX (Δ) to ULKIG (Δ), RT, on track 103° via SOBRA and DONAB to RIDSU (Δ). Climb with 3.5% (215 ft/NM) or more until passing 1900. Cross 11.0 DME HND at or above 5000. Cross DONAB at or above FL120. GPS/FMS RNAV: [A2100+] - FH076[A5000+; R] - FH077 - SOMIM[R] - ABSIX - ULKIG[R] - SOBRA - DONAB[F120+] - RIDSU.			<ol style="list-style-type: none"> 1. Only available for flights via DONAB at or above FL120. If unable to comply, request alternate departure instructions by ATC. 2. PDG 3.5% (215 ft/NM) or more due to obstacles. 3. PDG 5.7% (345 ft/NM) or more until passing 5000 due to airspace structure and NLFS. If unable to comply, inform ATC. 4. After 11.0 DME HND BRNAV equipment necessary.
RUDUS 6S	RUDUS SIX SIERRA On track 213° HAN to 6.0 DME HND, RT to SOMIM (Δ); RT, on track 102° via ABSIX to ULKIG (Δ), LT, on track 051° to RUDUS (Δ). Climb with 3.5% (215 ft/NM) or more until passing 1900. Cross 5.0 NM prior ULKIG at or above FL120 and 9.0 NM prior RUDUS at or above FL140. GPS/FMS RNAV: [A2100+] - FH070[R] - FH071 - SOMIM[R] - ABSIX - ULKIG[F120+; L] - RUDUS[F140+].			<ol style="list-style-type: none"> 1. Only available for flights via RUDUS at or above FL140. If unable to comply, request alternate departure instructions by ATC. 2. Not to be used during activity of NLFS. 3. PDG 3.5% (215 ft/NM) or more due to obstacles. 4. Flights have to be able to cross 5.0 NM prior ULKIG at or above FL120 and 9.0 NM prior RUDUS at or above FL140. If unable to comply, request RUDUS 6L. 5. PDG 5.2% (315 ft/NM) or more until passing FL120 due to airspace structure. 6. After 6.0 DME HND BRNAV equipment necessary.
RUDUS 6L	RUDUS SIX LIMA On track 213° HAN to 11.0 DME HND, RT to SOMIM (Δ); RT, on track 102° via ABSIX to ULKIG (Δ), LT, on track 051° to RUDUS (Δ). Climb with 3.5% (215 ft/NM) or more until passing 1900. Cross 11.0 DME HND at or above 5000. Cross RUDUS at or above FL140. GPS/FMS RNAV: [A2100+] - FH076[A5000+; R] - FH077 - SOMIM[R] - ABSIX - ULKIG[L] - RUDUS[F140+].			<ol style="list-style-type: none"> 1. Only available for flights via RUDUS at or above FL140. If unable to comply, request alternate departure instructions by ATC. 2. PDG 3.5% (215 ft/NM) or more due to obstacles. 3. PDG 5.7% (345 ft/NM) or more until passing 5000 due to airspace structure and NLFS. If unable to comply, inform ATC. 4. After 11.0 DME HND BRNAV equipment necessary.

(Sample: FH070 fly-over way point)

Contact Langen Radar immediately after take-off!