



STANDARD DEPARTURE  
ROUTES – INSTRUMENT  
(SID)FRANKFURT-HAHN  
RWY 21

| Designator  | Route  | After Take-Off |                         | Remarks   |
|---|--|----------------|-------------------------|---|
|   |  | Climb to       | Contact                 |   |
| 1   | 2  | 3              | 4                       | 5   |
| <b>DIK 1S</b>   | <b>DIKIRCH ONE SIERRA</b><br>On track 213° HAN to 6.0 DME HND,<br>RT, on track 345° to intercept track 276° HAN<br>to RUDOT (Δ); LT, on track 267° to BITBU (Δ).<br>LT, on track 246° via ASMOX to DIK (Δ).<br>Climb with 3.5% (215 ft/NM) or more until passing 1900.<br>Cross DIK at or above FL170.<br><b>GPS/FMS RNAV:</b> [A2100+] - FH070[R] - FH073 -<br>FH080[L] - RUDOT[L] - BITBU[L] - ASMOX - DIK[F170+].         | 5000 ft        | Langen Radar<br>125.600 | <ol style="list-style-type: none"> <li>1. Flights have to be able to cross DIK at or above FL170. If unable to comply, request DIK 1L.</li> <li>2. Not to be used during activity of NLFS.</li> <li>3. PDG 3.5% (215 ft/NM) or more due to obstacles.</li> <li>4. PDG 5.0% (300 ft/NM) or more until passing FL170 due to airspace structure.</li> <li>5. After RUDOT BRNAV equipment necessary.</li> </ol>   |
| <b>DIK 1L</b>   | <b>DIKIRCH ONE LIMA</b><br>On track 213° HAN to 11.0 DME HND,<br>RT, on track 344° to RUDOT (Δ),<br>LT, on track 267° to BITBU (Δ),<br>LT, on track 246° via ASMOX to DIK (Δ).<br>Climb with 3.5% (215 ft/NM) or more until passing 1900.<br>Cross 11.0 DME HND at 5000 or above.<br>Cross DIK at or above FL170.<br><b>GPS/FMS RNAV:</b> [A2100+] - FH076[A5000+; R] -<br>FH078 - RUDOT[L] - BITBU[L] - ASMOX - DIK[F170+]. |                |                         | <ol style="list-style-type: none"> <li>1. Flights have to be able to cross DIK at or above FL170. If unable to comply, request DIK 1Y.</li> <li>2. PDG 3.5% (215 ft/NM) or more due to obstacles.</li> <li>3. PDG 5.7% (345 ft/NM) or more until passing 5000 due to airspace structure and NLFS. If unable to comply, inform ATC.</li> <li>4. PDG 4.3% (260 ft/NM) or more until passing FL170 due to airspace structure.</li> <li>5. After 11.0 DME HND BRNAV equipment necessary.</li> </ol>     |
| <b>DIK 1Y</b>   | <b>DIKIRCH ONE YANKEE</b><br>On track 213° HAN to 11.0 DME HND,<br>RT, on track 344° to RUDOT (Δ),<br>LT, on track 267° to BITBU (Δ),<br>LT, on track 246° via ASMOX to DIK (Δ).<br>Climb with 3.5% (215 ft/NM) or more until passing 1900.<br>Cross 11.0 DME HND at 5000 or above.<br><b>GPS/FMS RNAV:</b> [A2100+] - FH076[A5000+; R] -<br>FH078 - RUDOT[L] - BITBU[L] - ASMOX - DIK.                                      |                |                         | <ol style="list-style-type: none"> <li>1. PDG 3.5% (215 ft/NM) or more due to obstacles.</li> <li>2. PDG 5.7% (345 ft/NM) or more until passing 5000 due to airspace structure and NLFS. If unable to comply, inform ATC.</li> <li>3. After 11.0 DME HND BRNAV equipment necessary.</li> </ol>  |
| <b>GEBDA 1S</b>   | <b>GEBDA ONE SIERRA</b><br>On track 213° HAN to 6.0 DME HND,<br>RT to SOMIM (Δ),<br>RT, on track 102° to ABSIX (Δ),<br>RT, on track 129° to OLIVI (Δ),<br>RT, on track 145° to GEBDA (Δ).<br>Climb with 3.5% (215 ft/NM) or more until passing 1900.<br><b>GPS/FMS RNAV:</b> [A2100+] - FH070[R] - FH071 -<br>SOMIM[R] - ABSIX[R] - OLIVI[R] - GEBDA.  |                |                         | <ol style="list-style-type: none"> <li>1. Only available between Friday 17:00 (16:00) and Monday 07:00 (06:00).</li> <li>2. Outside these times assigned by ATC only.</li> <li>3. Not to be used during activity of NLFS.</li> <li>4. PDG 3.5% (215 ft/NM) or more due to obstacles.</li> <li>5. After 6.0 DME HND BRNAV equipment necessary.</li> </ol>  |
| <b>GEBDA 1L</b>   | <b>GEBDA ONE LIMA</b><br>On track 213° HAN to 11.0 DME HND,<br>RT to SOMIM (Δ),<br>RT, on track 102° to ABSIX (Δ),<br>RT, on track 129° to OLIVI (Δ),<br>RT, on track 145° to GEBDA (Δ).<br>Climb with 3.5% (215 ft/NM) or more until passing 1900.<br>Cross 11.0 DME HND at 5000 or above.<br><b>GPS/FMS RNAV:</b> [A2100+] - FH076[A5000+; R] -<br>FH077 - SOMIM[R] - ABSIX[R] - OLIVI[R] - GEBDA.                         |                |                         | <ol style="list-style-type: none"> <li>1. Only available between Friday 17:00 (16:00) and Monday 07:00 (06:00).</li> <li>2. Outside these times assigned by ATC only.</li> <li>3. PDG 3.5% (215 ft/NM) or more due to obstacles.</li> <li>4. PDG 5.7% (345 ft/NM) or more until passing 5000 due to airspace structure and NLFS. If unable to comply, inform ATC.</li> <li>5. After 11.0 DME HND BRNAV equipment necessary.</li> </ol>  |
| <b>IDARO 5L</b>   | <b>IDARO FIVE LIMA</b><br>On track 213° HAN to 13.8 DME HND,<br>RT, on track 241° to IDARO (Δ).<br>Climb with 3.5% (215 ft/NM) or more until passing 1900.<br>Climb with 4.2% (255 ft/NM) or more until passing 4900.<br><b>GPS/FMS RNAV:</b> [A2100+] - FH075[R] - IDARO.   |                |                         | <ol style="list-style-type: none"> <li>1. Only for flights proceeding via G21.</li> <li>2. PDG 3.5% (215 ft/NM) or more due to obstacles.</li> <li>3. PDG 4.2% (255 ft/NM) or more due to airspace structure. If unable to comply, inform ATC.</li> <li>4. After 13.8 DME HND BRNAV equipment necessary.</li> </ol>   |
| <b>MAKIK 1S</b>   | <b>MAKIK ONE SIERRA</b><br>On track 213° HAN to 6.0 DME HND,<br>RT, on track 345° to intercept track 276° HAN<br>to RUDOT (Δ); LT, on track 267° to BITBU (Δ),<br>LT, on track 266° to MAKIK (Δ).<br>Climb with 3.5% (215 ft/NM) or more until passing 1900.<br>Cross MAKIK at or above FL160.<br><b>GPS/FMS RNAV:</b> [A2100+] - FH070[R] - FH073 -<br>FH080[L] - RUDOT[L] - BITBU[L] - MAKIK[F160+].                       |                |                         | <ol style="list-style-type: none"> <li>1. Flights have to be able to cross MAKIK at or above FL160. If unable to comply, request MAKIK 1L.</li> <li>2. Not to be used during activity of NLFS.</li> <li>3. PDG 3.5% (215 ft/NM) or more due to obstacles.</li> <li>4. PDG 5.0% (300 ft/NM) or more until passing FL160 due to airspace structure.</li> <li>5. After RUDOT BRNAV equipment necessary.</li> </ol>   |
| <b>MAKIK 1L</b>   | <b>MAKIK ONE LIMA</b><br>On track 213° HAN to 11.0 DME HND,<br>RT, on track 344° to RUDOT (Δ),<br>LT, on track 267° to BITBU (Δ),<br>LT, on track 266° to MAKIK (Δ).<br>Climb with 3.5% (215 ft/NM) or more until passing 1900.<br>Cross 11.0 DME HND at 5000 or above.<br>Cross MAKIK at or above FL160.<br><b>GPS/FMS RNAV:</b> [A2100+] - FH076[A5000+; R] -<br>FH078 - RUDOT[L] - BITBU[L] - MAKIK[F160+].               |                |                         | <ol style="list-style-type: none"> <li>1. Flights have to be able to cross MAKIK at or above FL160. If unable to comply, request MAKIK 1Y.</li> <li>2. PDG 3.5% (215 ft/NM) or more due to obstacles.</li> <li>3. PDG 5.7% (345 ft/NM) or more until passing 5000 due to airspace structure and NLFS. If unable to comply, inform ATC.</li> <li>4. PDG 4.2% (255 ft/NM) or more until passing FL160 due to airspace structure.</li> <li>5. After 11.0 DME HND BRNAV equipment necessary.</li> </ol> |
| (Sample: FH070 fly-over way point)                      |  |                |                         |   |
| <b>Contact Langen Radar immediately after take-off!</b> |  |                |                         |   |

FRANKFURT-HAHN  
RWY 21

STANDARD DEPARTURE  
ROUTES – INSTRUMENT  
(SID)

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

(Sample: FH070 fly-over way point)

Contact Langen Radar immediately after take-off!