CHAKA FOUR RNAV ARRIVAL

CHANGES: Procedure renumbered.

BEANO THREE RNAV ARRIVAL

CHANGES: None.

ROUTE: From 270° to REKUA, then on track 287° to PLENA.

ROUTE: From 260° to PLENA.

ROUTE: From 281° to GARCY.

ROUTE: From 290° to REKUA, then on track 279° to PLENA.

ROUTE: From 260° to PLENA.

ROUTE: From 280° to GARCY.

ROUTE: From 290° to REKUA, then on track 279° to PLENA.

ROUTE: From 260° to PLENA.
SAN JUAN, PUERTO RICO

TJSJ/SJU 12 NOV 10 10-2B LUIS MUNOZ MARIN INTL

D-ATIS 125.8

Apt Elev 9'

All Set: INCHES

Trans level: FL 180 Trans alt: 18000'

1. GPS required.
2. RADAR required.
3. RNAV
4. This STAR applicable to turbojet aircraft only.

SAALR TWO RNAV ARRIVAL (SAALR, SAALR2)

From WEXET on track 172° to SAALR, then via assigned runway transition.

SAALR

At 11000'

Direct distance from MAELO to:

Luis Munoz Marin Intl 19 NM

Direct distance from TINNER to:

Luis Munoz Marin Intl 11 NM

Direct distance from VARNA to:

Luis Munoz Marin Intl 19 NM

CHANGES:

Procedure renumbered, MSA.

SAALR TWO RNAV ARRIVAL (SAALR, SAALR2)

From WEXET on track 172° to SAALR, then via assigned runway transition.

Rwy 10 (EAST)

From over SAALR on track 167° to FLABO, then on track 197° to TINNER.

From over SAALR on track 167° to FLABO, then on track 197° to PLENO, then on track 197° to TINNER.

Rwy 26, 28 (WEST)

From over SAALR on track 162° to MAELO, then on track 105° to MAELO, then on heading 105°. EXPECT RADAR vectors to final approach course.

Changes: MSA.
Direct distance from Luis Munoz Marin Intl to:

- TNNER: 6000' or lower altitude (Rwy 8, 10, 26, 28: Standard (or lower than standard, if authorized)).
- YUNKE: 3300' from DER.
- MAVIE: 5200' or as assigned by ATC.
- REKUA: 2810' from DER.
- GARY: 5200' or as assigned by ATC.
- PALDE: 5200' or as assigned by ATC.

**Routing:**
- Rwy 8: Trees beginning 21' from DER, LEFT and RIGHT of centerline, up to 84' AGL/107' MSL.
- Rwy 10: Trees beginning 157' from DER, LEFT and RIGHT of centerline, up to 54' AGL/61' MSL.
- Rwy 26: Building and trees beginning 8' from DER, 374' RIGHT of centerline, up to 158' AGL/156' MSL.
- Rwy 28: Bush and trees beginning 158' from DER, 476' LEFT of centerline, up to 61' AGL/71' MSL.
- Pole 438' from DER, 587' LEFT of centerline, 2810' MSL.
- Pole 1100' from DER, 2810' MSL.
- Pole 5000' from DER, 2810' MSL.

**OBLASTES:**
- Rwy 8: Trees beginning 21' from DER, LEFT and RIGHT of centerline, up to 84' AGL/107' MSL.
- Rwy 10: Trees beginning 157' from DER, LEFT and RIGHT of centerline, up to 54' AGL/61' MSL.
- Rwy 26: Building and trees beginning 8' from DER, 374' RIGHT of centerline, up to 158' AGL/156' MSL. Sign and bushes beginning 381' from DER, 374' LEFT of centerline, up to 28' AGL/35' MSL.
- Rwy 28: Bush and trees beginning 158' from DER, 476' LEFT of centerline, up to 61' AGL/71' MSL.
- Pole 438' from DER, 587' LEFT of centerline, 2810' MSL.
- Pole 1100' from DER, 2810' MSL.
- Pole 5000' from DER, 2810' MSL.

**Controls:**
- Rwy 8: Trees beginning 21' from DER, LEFT and RIGHT of centerline, up to 84' AGL/107' MSL.
- Rwy 10: Trees beginning 157' from DER, LEFT and RIGHT of centerline, up to 54' AGL/61' MSL.
- Rwy 26: Building and trees beginning 8' from DER, 374' RIGHT of centerline, up to 158' AGL/156' MSL. Sign and bushes beginning 381' from DER, 374' LEFT of centerline, up to 28' AGL/35' MSL.
- Rwy 28: Bush and trees beginning 158' from DER, 476' LEFT of centerline, up to 61' AGL/71' MSL.
- Pole 438' from DER, 587' LEFT of centerline, 2810' MSL.
- Pole 1100' from DER, 2810' MSL.
- Pole 5000' from DER, 2810' MSL.

**Rwys 8, 10, 26, 28:** Standard (or lower than standard, if authorized).

**INITIAL CLIMB:**
- Rwy 8: Climb heading 078° to 5200', then climbing LEFT turn heading 350° or as assigned by ATC.
- Rwy 10: Climb heading 101° to 5200', then climbing LEFT turn heading 350° or as assigned by ATC.
- Rwy 26: Climb heading 258° to 5200', continue climb heading 280° or as assigned by ATC.
- Rwy 28: Climb heading 281° to 5200', continue climb heading 280° or as assigned by ATC.

**ROUTING:**
- EXPECT vectors to ACONY, then via 327° track to PALDE, then via assigned transition. EXPECT clearance to FL 280, or requested altitude if lower, ten minutes after departure.

**CHANGES:**
- Procedure renumbered, MSA.
CRSTL ONE DEPARTURE (CRSTL1.CRSTL)

GANBO ONE RNAV DEPARTURE (GANBO1.GANBO)

This SID requires take-off minimums (for standard minimums, refer to airport chart):

Rwy 8, 10, 26, 28: Standard (or lower than standard, if authorized) with a minimum climb of 390’ per NM to 4900’, an ATC climb of 420’ per NM to 6000’, and an ATC climb of 264’ per NM to FL 210.

Gnd speed-KT

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<thead>
<tr>
<th></th>
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<th>1</th>
<th>2</th>
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<tr>
<td>264’ per NM</td>
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<td>350</td>
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<tr>
<td>390’ per NM</td>
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<td>750</td>
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<td>1200</td>
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<tr>
<td>750’ per NM</td>
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<td>1225</td>
<td>1400</td>
<td>1575</td>
<td>1750</td>
<td>1925</td>
<td>2100</td>
<td>2275</td>
</tr>
</tbody>
</table>

ROUTE:

- Fly heading 280° for vector to intercept SJU R-239 to CLAYO, then via G-432 to CRSTL.

- Climb heading 280° or as assigned by ATC.

- Maintain 5000’ unless assigned lower altitude.

ROUTE:

- Expect vectors to GANBO, then via depicted route to TOREY, then via assigned transition.

- Expect clearance to FL 280, or requested altitude if lower, ten minutes after departure.

CHANGES: MSA.
GLADA TWO RNAV DEPARTURE (GLADA2.GLADA)

This SID requires take-off minimums (for standard minimums, refer to airport chart):

Rwy 8, 10, 26, 28: Standard (or lower than standard, if authorized).

Obstacles:

Rwy 8: Trees beginning 21' from DER, LEFT and RIGHT of centerline, up to 84' AGL/107' MSL.
Rwy 10: Trees beginning 157' from DER, LEFT and RIGHT of centerline, up to 54' AGL/61' MSL.
Rwy 26: Buildings and trees beginning 8' from DER, 339' RIGHT of centerline, up to 135' AGL/154' MSL. Sign and bushes beginning 28' from DER, 374' LEFT of centerline, up to 28' AGL/35' MSL.
Rwy 28: Bushes and trees beginning 159' from DER, 476' LEFT of centerline, up to 61' AGL/71' MSL. Pole 438' from DER, 587' LEFT of centerline, 31' AGL/38' MSL.

Rwy

INITIAL CLIMB

ALITUDE

8

Climb heading 078° to 520', then climbing LEFT turn heading 020° or as assigned by ATC.

10

Climb heading 101° to 520', then climbing LEFT turn heading 020° or as assigned by ATC.

26

Climb heading 258° to 520', continue climb heading 280° or as assigned by ATC.

28

Climb heading 281° to 520', continue climb heading 280° or as assigned by ATC.

Maintain 5000' unless assigned lower altitude.

Routing:

Expect vectors to GLADA, then via 010° track to MAWLY, then via assigned transition. Expect clearance to FL 280, or requested altitude if lower, ten minutes after departure.
JAAWS NINE DEPARTURE (JAAWS9,JAAWS)

**INITIAL CLIMB**

**RWY**

- **8, 10**
  - Turn LEFT heading 350° for RADAR vector to intercept SJU R-326 to UTAHS.

- **26, 28**
  - Fly heading 280° for RADAR vector to intercept SJU R-326 to UTAHS.

**ALTITUDE**

- **MAINTAIN 5000'**
  - unless assigned lower altitude

**EXCEPT** clearance to **FL 280** or requested altitude, if lower, ten minutes after departure.

**CHANGES:** MSA
This SID requires take-off minimums (for standard minimums, refer to airport chart):

Rwy 8, 10, 26, 28: Standard (or lower than standard, if authorized).

Rwy 8: Trees beginning 21' from DER, LEFT and RIGHT of centerline, up to 84' AGL/107' MSL.
Rwy 10: Trees beginning 15' from DER, LEFT and RIGHT of centerline, up to 128' AGL/154' MSL.
Rwy 26: Trees beginning 8' from DER, 339' RIGHT of centerline, up to 138' AGL/154' MSL.
Rwy 28: Bushes and trees beginning 159' from DER, 476' LEFT of centerline, up to 61' AGL/71' MSL.

Rwys 8, 10: Not authorized - ATC.

Rwy 26: Standard (or lower than standard, if authorized) with a minimum obstacle climb of 311' per NM to 5000'.
Rwy 28: Standard (or lower than standard, if authorized) with a minimum obstacle climb of 323' per NM to 5000'.

Rwys 8, 10: Not authorized - ATC.

Rwy 26: Standard (or lower than standard, if authorized) with a minimum obstacle climb of 311' per NM to 5000'.
Rwy 28: Standard (or lower than standard, if authorized) with a minimum obstacle climb of 323' per NM to 5000'.

Rwy 28: Bush and trees beginning 159' from DER, 476' LEFT of centerline, up to 61' AGL/71' MSL. Pole 438' from DER, 587' LEFT of centerline, 31' AGL/38' MSL.
TAXIWAY RESTRICTIONS

Taxiway D: Max aircraft size ATR-72. No taxiing when aircraft moving on holding area.
Taxiway S: Max aircraft size B-747-400 when holding area not used. Max aircraft size B-767 when holding area used, no taxiing when aircraft moving on holding area.
Taxiway H: Max aircraft size B-747-400, not available for large aircraft taxiing to Runway 08 when Runway 10 in use for landing.
Taxiway C: Max aircraft size B-747-400, available for South-North movements when Runway 10 in use for landing.

Holding Area: Max aircraft size B-747, no movement permitted when other aircraft are using holding area. When holding area used, no taxiing when aircraft moving on holding area.
Taxiway B (East Bridge): Max aircraft size B-747-700. Taxiway B available only for North-South movements, not operational when Rwy 08 in use for landing.
Taxiway A (West Bridge): Max aircraft size B-747-400. Taxiway A available only for South-North movements, not operational when Rwy 10 in use for landing.
Taxiway E: Max aircraft size B-747-400 available for south-north movements when Rwy 10 in use for landing.

TAXIWAY HOLDING POSITION DURING EAST OPERATIONS

Background: Occasionally there is the need for aircraft to hold on the ground prior to departure for operational reasons. To avoid unnecessary delays to those aircraft in sequence ready to depart, two holding spots have been created and depicted near the approach end of Runway 08.

Procedure: If a pilot believes there will be the need to hold for a brief period of time before departure, inform ATC of intentions to do this prior to crossing the marked taxiway holding position point. These holding spots are depicted by two additional red squares painted on the ground named “HLDG PSN 1” and “HLDG PSN 2”.

If for any reason the aircraft needs to hold facing another direction, advise ATC promptly. It is important to understand that the aircraft is required to maintain a safe distance from fixed objects to allow the safe movement and proper clearance for aircraft in this area, request instructions from ATC.

Description: HLDG PSN 1: Red square with white letters indicating “HLDG PSN 1” abeam Yankee intersection near the approach end of Runway 08.
HLDG PSN 2: Red square with white letters indicating “HLDG PSN 2”.

PARKING GATE COORDINATES

<table>
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<th>GATE No.</th>
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<tr>
<td>1, 1A</td>
<td>N18 26.3 W066 00.5</td>
</tr>
<tr>
<td>2 thru 5</td>
<td>N18 26.4 W066 00.4</td>
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<tr>
<td>6 thru 8</td>
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<td>14 thru 16</td>
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<tr>
<td>17</td>
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<td>18</td>
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<tr>
<td>29</td>
<td>N18 26.4 W066 00.1</td>
</tr>
</tbody>
</table>

CHANGES: Taxiway 23 added.
**MISSED APCH:** Climb to 2000', then climbing LEFT turn to 3000' on heading 320° and outbound SJU VOR R-004 to DEEDEY INT/D15.0 SJU and hold.

**Radar required for arrivals.**
MISSED APCH: Climb to 3000', then climb to 3000' via heading 320° and SJU VOR R-004 outbound to DEEDY INT/D15.0 and hold.

1. ADF or DME required. 2. GPS or RNP-0.3 required.
3. DME/DME RNP-0.3 not authorized. 4. VGSI and descent angles not coincident. 5. WAAS VNAV not authorized.

1. Baro-VNAV not authorized below -15°C (5°F). 2. GPS or RNP-0.3 required. 3. DME/DME RNP-0.3 not authorized. 4. VGSI and descent angles not coincident. 5. WAAS VNAV not authorized.
SAN JUAN, PUERTO RICO

**TERPS HW A ME N D 1**

**SAN JUAN Approach (R)**

**SAN JUAN Tower**

**SAN JUAN, PUERTO RICO**

**TJSJ/SJU**

**TJSJ/SJU**

**D-ATIS**

**D-ATIS**

**NAVAIDS - Refer to Planview**

**Final Apch Crs**

**Refer to Planview**

**Final Apch Crs**

**No FAF**

**CEIL-VIS 2000'-5**

**Apt Elev 9'**

**TRANS level: FL 180**

**TRANS level: FL 180**

**TRANS alt: 18000'**

**TRANS alt: 18000'**

**VERTICAL GUIDANCE NAVAID AND ANGLE: PAPI - 3.00°.**

**PUNTA SALINAS RADOMES**

**FERNANDO RIBAS DOMINICCI**

**SAN LOUIS**

**PAPA**

**DORADO NDB**

When cleared for the Lagoon Visual Runway 8 Approach aircraft will proceed visually to intercept and fly the Runway 10 final approach course until the west end of the San Jose Lagoon, then make left turn to land Runway 8.

**WEATHER MINIMUMS**

Ceiling 2000' Vis 5

**CHANGES:** None.
**SAN JUAN, PUERTO RICO**

**BRIDGE VISUAL Rwy 10**

When cleared for the Bridge Visual Runway 10 Approach, aircraft will base East of the Moscoso Bridge.

**WEATHER MINIMUMS**

Ceiling 2500' Vis 5