**Poznań - Ławica**
**RNAV RWY 10**
AKAPI 1T  DEKUT 1T  DENKO 1T
KELOD 1T  MASIV 1T  NILPU 1T

**STANDARD ARRIVAL CHART**
**INSTRUMENT (STAR) - ICAO**

TRANSITION ALTITUDE 6500

| Poznań APPROACH | 128.925 |
|---|---|
| Poznań DELIVERY | 121.805 |
| Poznań GROUND | 124.140 |
| Poznań TOWER | 119.980 |

PBN
RNAV 1
GNSS REQUIRED

BEARINGS AND TRACKS ARE MAGNETIC.
TRACKS IN BRACKETS ARE TRUE.
ALTITUDES AND ELEVATIONS ARE IN FEET.
DISTANCES ARE IN NAUTICAL MILES.

MNM SECT ALT
25 NM from ARP EPPO
2300

VAR 6°E 2024
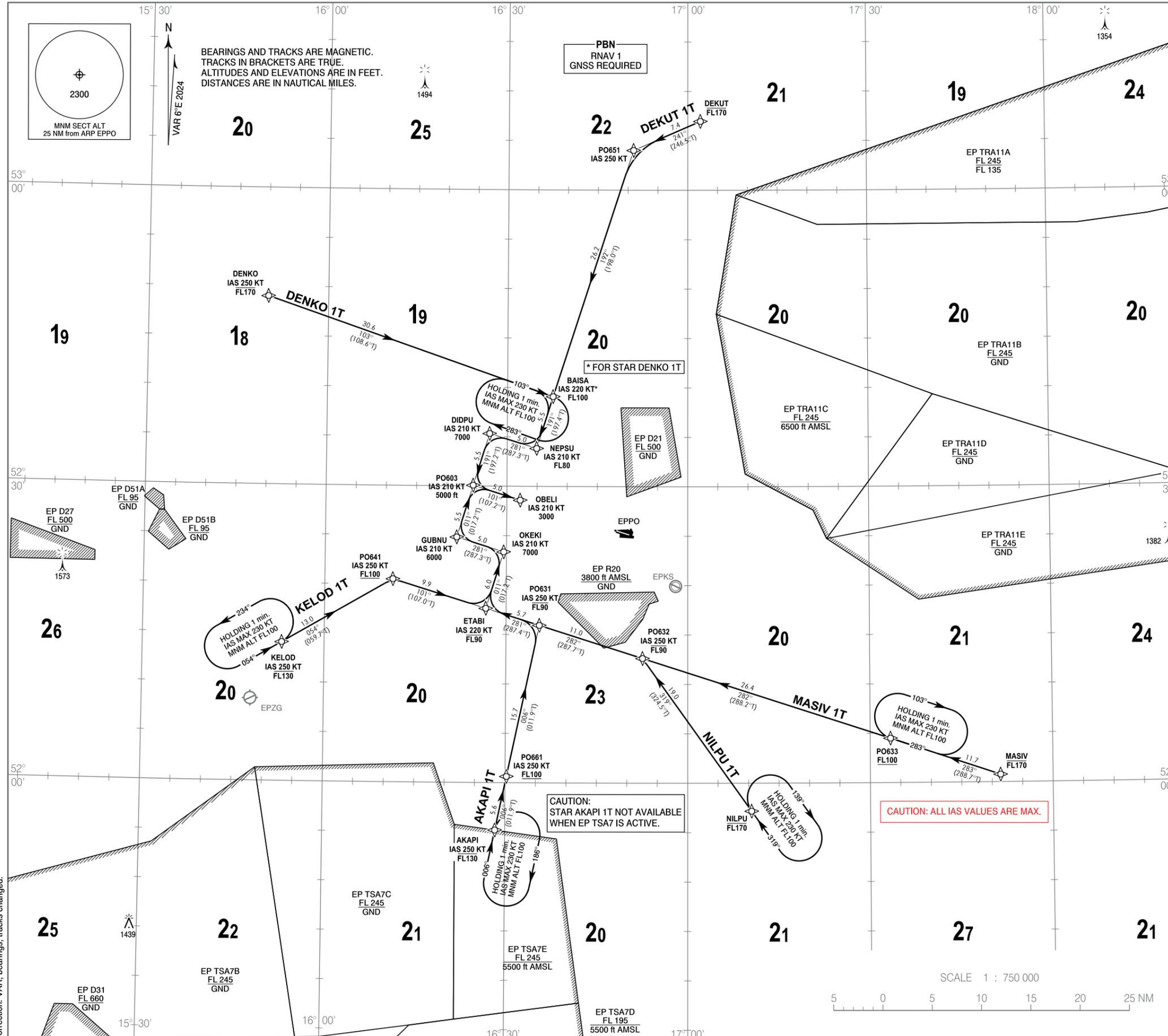
1. RNAV 1 approval required to conduct these procedures without additional restrictions. However it is possible to utilize RNAV 1 trajectories by RNAV 5 only approved aircraft. The following restriction apply: A/c equipped with RNAV 5 systems without navigation database, and requiring manual data input are exempted from the utilization of RNAV 1 procedures.
2. All aircraft which can not follow and utilize RNAV 1 trajectories shall advise ATC upon first contact. Radar vectoring will be provided, usually along published procedures.
3. Holding patterns as directed by ATC, available for non RNAV 1 approved aircraft.
4. Vertical planning information: air crews should plan for possible descent clearance in accordance with vertical restrictions specified on chart. Actual descent clearance will be as directed by ATC. If possible, CDA technique should be applied.
5. Expect direct routing/shortcuts by ATC whenever possible (especially during off-peak hours). The turn to final approach is usually performed by radar vectors to expedite traffic handling and for separation reasons.

DEKUT 1T

DEKUT
FL170

PO651
IAS 250 KT

EP TRA11A
FL 245
FL 135

EP TRA11B
FL 245
GND

EP TRA11C
FL 245
6500 ft AMSL

EP TRA11D
FL 245
GND

EP TRA11E
FL 245
GND

DENKO
IAS 250 KT
FL170

DENKO 1T

* FOR STAR DENKO 1T

BAISA
IAS 220 KT*
FL100

HOLDING 1 min.
IAS MAX 230 KT
MNM ALT FL100

DIDPU
IAS 210 KT
7000

NEPSU
IAS 210 KT
FL80

EP D21
FL 500
GND

PO603
IAS 210 KT
5000 ft

OBELI
IAS 210 KT
3000

EPPO

EP D51A
FL 95
GND

EP D51B
FL 95
GND

EP D27
FL 500
GND

GUBNU
IAS 210 KT
6000

OKEKI
IAS 210 KT
7000

EP R20
3800 ft AMSL
GND

EPKS

PO641
IAS 250 KT
FL100

KELOD 1T

HOLDING 1 min.
IAS MAX 230 KT
MNM ALT FL100

KELOD
IAS 250 KT
FL130

ETABI
IAS 220 KT
FL90

PO631
IAS 250 KT
FL90

PO632
IAS 250 KT
FL90

MASIV 1T

HOLDING 1 min.
IAS MAX 230 KT
MNM ALT FL100

PO633
FL100

MASIV
FL170

PO661
IAS 250 KT
FL100

NILPU 1T

AKAPI 1T

CAUTION:
STAR AKAPI 1T NOT AVAILABLE
WHEN EP TSA7 IS ACTIVE.

AKAPI
IAS 250 KT
FL130

HOLDING 1 min.
IAS MAX 230 KT
MNM ALT FL100

NILPU
FL170

HOLDING 1 min.
IAS MAX 230 KT
MNM ALT FL100

CAUTION: ALL IAS VALUES ARE MAX.

EP TSA7C
FL 245
GND

EP TSA7B
FL 245
GND

EP TSA7E
FL 245
5500 ft AMSL

EP TSA7D
FL 195
5500 ft AMSL

EP D31
FL 660
GND

SCALE  1 : 750 000
5    0    5    10    15    20    25 NM

Correction: VAR, bearings, tracks changed.

**STANDARD ARRIVAL CHART
INSTRUMENT (STAR) - ICAO**

<div align="right">

**POZNAŃ/Ławica
RNAV RWY 10
AKAPI 1T DEKUT 1T DENKO 1T KELOD 1T MASIV 1T NILPU 1T**

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### AKAPI 1T

| SEQUENCE NUMBER | PATH TERMINATOR | WAYPOINT IDENTIFIER | COURSE / TRACK °M (°T) | DISTANCE (NM) | ALTITUDE | SPEED (kt) | NAV SPEC |
|---|---|---|---|---|---|---|---|
| 001 | IF | AKAPI | - | - | -FL130 | -250 | RNAV 1 |
| 002 | TF | PO661 | 006 (011.9) | 5.56 | +FL100 | -250 | RNAV 1 |
| 003 | TF | PO631 | 006 (011.9) | 15.67 | -FL90 | -250 | RNAV 1 |
| 004 | TF | ETABI | 281 (287.4) | 5.70 | -FL90 | -220 | RNAV 1 |
| 005 | TF | OKEKI | 011 (017.2) | 6.00 | 7000 ft | -210 | RNAV 1 |
| 006 | TF | GUBNU | 281 (287.3) | 5.00 | 6000 ft | -210 | RNAV 1 |
| 007 | TF | PO603 | 011 (017.2) | 5.50 | 5000 ft | -210 | RNAV 1 |
| 008 | TF | OBELI | 101 (107.2) | 5.00 | 3000 ft | -210 | RNAV 1 |

### DEKUT 1T

| SEQUENCE NUMBER | PATH TERMINATOR | WAYPOINT IDENTIFIER | COURSE / TRACK °M (°T) | DISTANCE (NM) | ALTITUDE | SPEED (kt) | NAV SPEC |
|---|---|---|---|---|---|---|---|
| 001 | IF | DEKUT | - | - | -FL170 | - | RNAV 1 |
| 002 | TF | PO651 | 241 (246.5) | 7.37 | - | -250 | RNAV 1 |
| 003 | TF | BAISA | 192 (198.0) | 26.25 | FL100 | -250 | RNAV 1 |
| 004 | TF | NEPSU | 191 (197.4) | 5.50 | FL80 | -210 | RNAV 1 |
| 005 | TF | DIDPU | 281 (287.3) | 5.00 | 7000 ft | -210 | RNAV 1 |
| 006 | TF | PO603 | 191 (197.2) | 5.50 | 5000 ft | -210 | RNAV 1 |
| 007 | TF | OBELI | 101 (107.2) | 5.00 | 3000 ft | -210 | RNAV 1 |

### DENKO 1T

| SEQUENCE NUMBER | PATH TERMINATOR | WAYPOINT IDENTIFIER | COURSE / TRACK °M (°T) | DISTANCE (NM) | ALTITUDE | SPEED (kt) | NAV SPEC |
|---|---|---|---|---|---|---|---|
| 001 | IF | DENKO | - | - | -FL170 | -250 | RNAV 1 |
| 002 | TF | BAISA | 103 (108.6) | 30.62 | FL100 | -220 | RNAV 1 |
| 003 | TF | NEPSU | 191 (197.4) | 5.50 | FL80 | -210 | RNAV 1 |
| 004 | TF | DIDPU | 281 (287.3) | 5.00 | 7000 ft | -210 | RNAV 1 |
| 005 | TF | PO603 | 191 (197.2) | 5.50 | 5000 ft | -210 | RNAV 1 |
| 006 | TF | OBELI | 101 (107.2) | 5.00 | 3000 ft | -210 | RNAV 1 |

### KELOD 1T

| SEQUENCE NUMBER | PATH TERMINATOR | WAYPOINT IDENTIFIER | COURSE / TRACK °M (°T) | DISTANCE (NM) | ALTITUDE | SPEED (kt) | NAV SPEC |
|---|---|---|---|---|---|---|---|
| 001 | IF | KELOD | - | - | -FL130 | -250 | RNAV 1 |
| 002 | TF | PO641 | 054 (059.7) | 12.96 | +FL100 | -250 | RNAV 1 |
| 003 | TF | ETABI | 101 (107.0) | 9.88 | -FL90 | -220 | RNAV 1 |
| 004 | TF | OKEKI | 011 (017.2) | 6.00 | 7000 ft | -210 | RNAV 1 |
| 005 | TF | GUBNU | 281 (287.3) | 5.00 | 6000 ft | -210 | RNAV 1 |
| 006 | TF | PO603 | 011 (017.2) | 5.50 | 5000 ft | -210 | RNAV 1 |
| 007 | TF | OBELI | 101 (107.2) | 5.00 | 3000 ft | -210 | RNAV 1 |

## MASIV 1T

| SEQUENCE NUMBER | PATH TERMINATOR | WAYPOINT IDENTIFIER | COURSE / TRACK °M (°T) | DISTANCE (NM) | ALTITUDE | SPEED (kt) | NAV SPEC |
|---|---|---|---|---|---|---|---|
| 001 | IF | MASIV | - | - | -FL170 | - | RNAV 1 |
| 002 | TF | PO633 | 283 (288.7) | 11.75 | +FL100 | - | RNAV 1 |
| 003 | TF | PO632 | 282 (288.2) | 26.42 | -FL90 | -250 | RNAV 1 |
| 004 | TF | PO631 | 282 (287.7) | 11.00 | -FL90 | -250 | RNAV 1 |
| 005 | TF | ETABI | 281 (287.4) | 5.70 | -FL90 | -220 | RNAV 1 |
| 006 | TF | OKEKI | 011 (017.2) | 6.00 | 7000 ft | -210 | RNAV 1 |
| 007 | TF | GUBNU | 281 (287.3) | 5.00 | 6000 ft | -210 | RNAV 1 |
| 008 | TF | PO603 | 011 (017.2) | 5.50 | 5000 ft | -210 | RNAV 1 |
| 009 | TF | OBELI | 101 (107.2) | 5.00 | 3000 ft | -210 | RNAV 1 |

## NILPU 1T

| SEQUENCE NUMBER | PATH TERMINATOR | WAYPOINT IDENTIFIER | COURSE / TRACK °M (°T) | DISTANCE (NM) | ALTITUDE | SPEED (kt) | NAV SPEC |
|---|---|---|---|---|---|---|---|
| 001 | IF | NILPU | - | - | -FL170 | - | RNAV 1 |
| 002 | TF | PO632 | 319 (324.5) | 19.03 | -FL90 | -250 | RNAV 1 |
| 003 | TF | PO631 | 282 (287.7) | 11.00 | -FL90 | -250 | RNAV 1 |
| 004 | TF | ETABI | 281 (287.4) | 5.70 | -FL90 | -220 | RNAV 1 |
| 005 | TF | OKEKI | 011 (017.2) | 6.00 | 7000 ft | -210 | RNAV 1 |
| 006 | TF | GUBNU | 281 (287.3) | 5.00 | 6000 ft | -210 | RNAV 1 |
| 007 | TF | PO603 | 011 (017.2) | 5.50 | 5000 ft | -210 | RNAV 1 |
| 008 | TF | OBELI | 101 (107.2) | 5.00 | 3000 ft | -210 | RNAV 1 |

| WAYPOINT IDENTIFIER | COORDINATES | |
|---|---|---|
| AKAPI | 51 55 12.0 N | 016 28 22.0 E |
| BAISA | 52 39 05.1 N | 016 37 35.5 E |
| DEKUT | 53 06 58.0 N | 017 02 07.0 E |
| DENKO | 52 49 00.7 N | 015 49 57.0 E |
| DIDPU | 52 35 19.3 N | 016 27 04.3 E |
| ETABI | 52 17 37.8 N | 016 26 38.1 E |
| GUBNU | 52 24 49.8 N | 016 21 44.6 E |
| KELOD | 52 14 02.0 N | 015 53 00.0 E |
| MASIV | 52 00 44.9 N | 017 51 23.9 E |
| NEPSU | 52 33 50.2 N | 016 34 53.7 E |
| NILPU | 51 57 10.0 N | 017 10 30.0 E |
| OBELI | 52 28 35.7 N | 016 32 12.7 E |
| OKEKI | 52 23 21.1 N | 016 29 32.4 E |
| PO603 | 52 30 04.6 N | 016 24 24.1 E |
| PO631 | 52 15 56.2 N | 016 35 29.6 E |
| PO632 | 52 12 37.2 N | 016 52 33.1 E |
| PO633 | 52 04 29.5 N | 017 33 21.3 E |
| PO641 | 52 20 32.3 N | 016 11 14.6 E |
| PO651 | 53 04 01.6 N | 016 50 54.5 E |
| PO661 | 52 00 37.9 N | 016 30 13.4 E |