

# KSAN

San Diego Intl

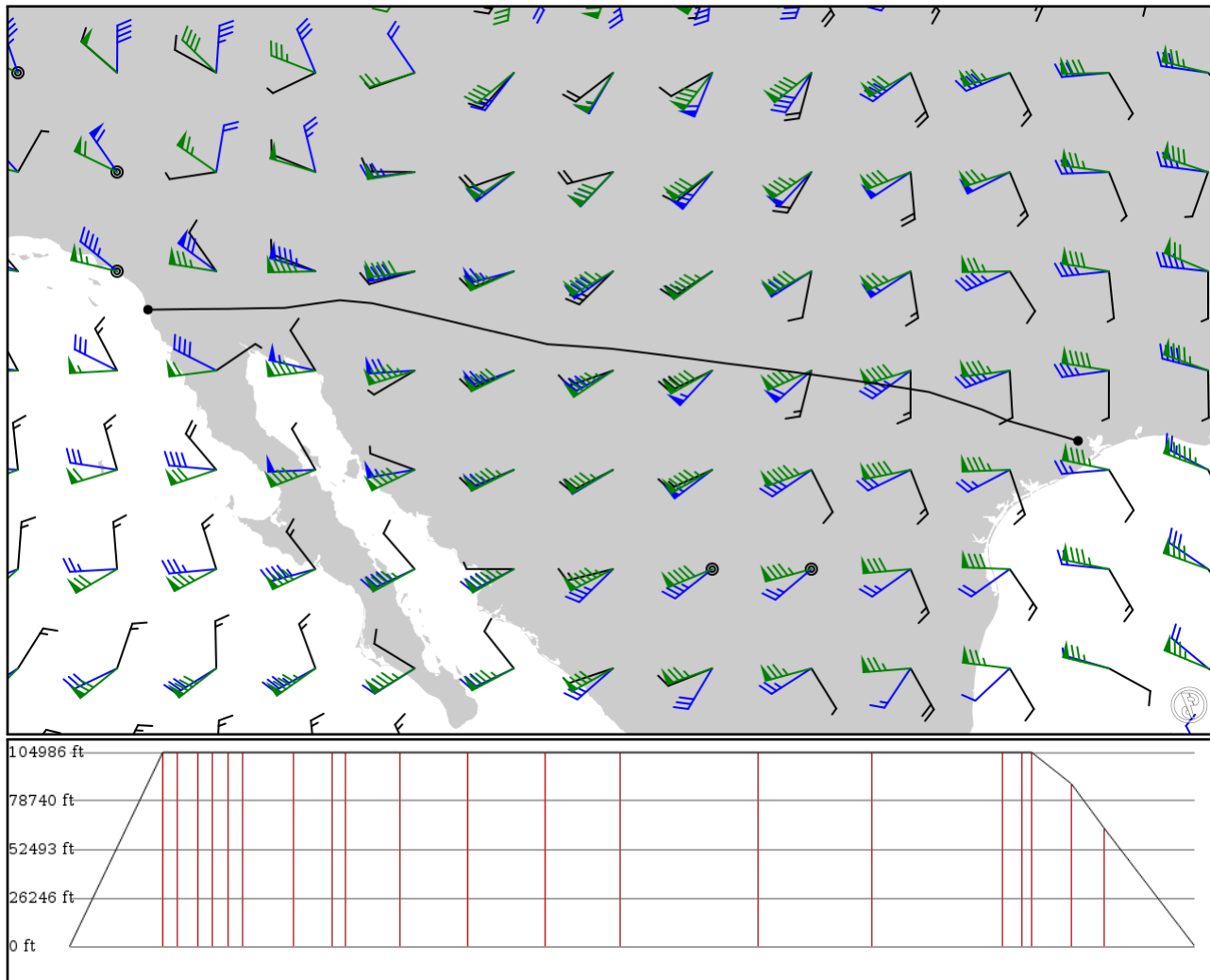
# KHOU

William P. Hobby

2024/05/29 0342Z

KSAN ARGUS **V458** HEEDS **J18** BZA **V66** MOHAK **J18** GBN **J50** ALIBY **J2** ELP **J183** LLO **V76** CWK **V558** MOUZE KHOU

1146.09 nm / 2122.55 km



## Notes

Basic altitude profile:

- Ascent Rate: 2500ft/min
- Ascent Speed: 250kts
- Cruise Altitude: 32000ft
- Cruise Speed: 420kts
- Descent Rate: 1500ft/min
- Descent Speed: 250kts

Options:

- Use NATs: yes
- Use PACOTS: yes
- Use low airways: yes
- Use high airways: yes



## Route

| Ident<br>Type | Via            | Lat<br>Lon             | Alt                  | Dist<br>(nm) | Name                    |
|---------------|----------------|------------------------|----------------------|--------------|-------------------------|
| KSAN<br>APT   | -              | 32.73360<br>-117.19000 | 0 ft<br>0 m          | -            | San Diego Intl          |
| ARGUS<br>FIX  | -              | 32.75360<br>-115.31100 | 32,000 ft<br>9,754 m | 94           | -                       |
| HEEDS<br>FIX  | V458<br>AWY-LO | 32.76030<br>-115.00800 | 32,000 ft<br>9,754 m | 15           | -                       |
| BZA<br>VOR    | J18<br>AWY-HI  | 32.76810<br>-114.60300 | 32,000 ft<br>9,754 m | 20           | BARD (YUMA)             |
| WARTT<br>FIX  | V66<br>AWY-LO  | 32.77210<br>-114.30600 | 32,000 ft<br>9,754 m | 15           | -                       |
| MOHAK<br>FIX  | V66<br>AWY-LO  | 32.77580<br>-113.97200 | 32,000 ft<br>9,754 m | 16           | -                       |
| JUDTH<br>FIX  | J18<br>AWY-HI  | 32.81650<br>-113.68800 | 32,000 ft<br>9,754 m | 14           | -                       |
| GBN<br>VOR    | J18<br>AWY-HI  | 32.95630<br>-112.67400 | 32,000 ft<br>9,754 m | 51           | GILA BEND               |
| TFD<br>VOR    | J50<br>AWY-HI  | 32.88590<br>-111.90900 | 32,000 ft<br>9,754 m | 38           | STANFIELD (CASA GRANDE) |
| TOTEC<br>FIX  | J50<br>AWY-HI  | 32.82660<br>-111.64200 | 32,000 ft<br>9,754 m | 13           | -                       |
| ITEMM<br>FIX  | J50<br>AWY-HI  | 32.58650<br>-110.59000 | 32,000 ft<br>9,754 m | 55           | -                       |
| SSO<br>VOR    | J50<br>AWY-HI  | 32.26920<br>-109.26300 | 32,000 ft<br>9,754 m | 69           | SAN SIMON               |
| ALIBY<br>FIX  | J50<br>AWY-HI  | 31.92130<br>-107.77900 | 32,000 ft<br>9,754 m | 78           | -                       |
| ELP<br>VOR    | J2<br>AWY-HI   | 31.81590<br>-106.28200 | 32,000 ft<br>9,754 m | 76           | EL PASO                 |
| PEQ<br>VOR    | J183<br>AWY-HI | 31.46930<br>-103.57500 | 32,000 ft<br>9,754 m | 139          | PECOS (PECOS CITY)      |
| FUSCO<br>FIX  | J183<br>AWY-HI | 31.17690<br>-101.32900 | 32,000 ft<br>9,754 m | 116          | -                       |
| LLO<br>VOR    | J183<br>AWY-HI | 30.79630<br>-98.78740  | 32,000 ft<br>9,754 m | 132          | LLANO                   |
| MOGWI<br>FIX  | V76<br>AWY-LO  | 30.68070<br>-98.43440  | 32,000 ft<br>9,754 m | 19           | -                       |
| BASIS<br>FIX  | V76<br>AWY-LO  | 30.62290<br>-98.25960  | 32,000 ft<br>9,754 m | 9            | -                       |
| CWK<br>VOR    | V76<br>AWY-LO  | 30.37850<br>-97.52980  | 26,800 ft<br>8,169 m | 40           | CENTEX                  |
| MOUZE<br>FIX  | V558<br>AWY-LO | 30.12300<br>-96.94160  | 19,500 ft<br>5,944 m | 34           | -                       |
| KHOU<br>APT   | -              | 29.64600<br>-95.27730  | 0 ft<br>0 m          | 91           | William P. Hobby        |

## KSAN

Region: UNITED STATES  
Timezone: AMERICA/LOS\_ANGELES  
Runways: 1

Elevation: 17 ft / 5 m  
Location: 32.733600 -117.190000  
Magnetic Var: 10.965 E

## METAR

KSAN 290251Z 26004KT 10SM OVC013 16/12 A3005 RMK A02 SLP177 T01610122 53002 \$

## TAF

TAF AMD KSAN 290235Z 2903/3006 29007KT P6SM OVC012 FM290900 21004KT P6SM OVC011 FM291900 21008KT P6SM OVC013 FM292100 21010KT P6SM OVC013

## Frequencies

|   |   |
|---|---|
| REC - 134.80 MHz - LINDBERGH ATIS       | CLD - 125.90 MHz - LINDBERGH CLEARANCE  |
| GND - 123.90 MHz - LINDBERGH GROUND     | TWR - 118.30 MHz - LINDBERGH TOWER      |
| DEP - 119.60 MHz - SOCAL WEST DEPARTURE | DEP - 124.35 MHz - SOCAL EAST DEPARTURE |
| APP - 119.60 MHz - SOCAL WEST APPROACH  | APP - 124.35 MHz - SOCAL EAST APPROACH  |

## Runways

| Ident | Width  | Length   | Bearing (true)<br>(mag) | Surface | Threshold<br>Offset | Overrun<br>Length |
|-------|--------|----------|-------------------------|---------|---------------------|-------------------|
| 09    | 200 ft | 9,388 ft | 106.13                  | ASPHALT | 1,004 ft            | 390 ft            |
|       | 61 m   | 2,861 m  | 95.17                   |         | 306 m               | 119 m             |
| 27    | 200 ft | 9,388 ft | 286.15                  | ASPHALT | 1,811 ft            | 0 ft              |
|       | 61 m   | 2,861 m  | 275.18                  |         | 552 m               | 0 m               |

## Approach Nav aids

| Runway | Type    | Ident | Frequency  | Range | Bearing (true)<br>(mag) | Slope | Elevation |
|--------|---------|-------|------------|-------|-------------------------|-------|-----------|
| 09     | DME     | ISAN  | 111.55 MHz | 18 nm | -                       | -     | 29 ft     |
|        |         |       |            | 33 km | -                       |       | 29 m      |
| 27     | DME     | IUBR  | 110.90 MHz | 18 nm | -                       | -     | 26 ft     |
|        |         |       |            | 33 km | -                       |       | 26 m      |
| 09     | LOC-ILS | ISAN  | 111.55 MHz | 18 nm | 106.14                  | -     | 17 ft     |
|        |         |       |            | 33 km | 95.17                   |       | 17 m      |
| 27     | LOC-LOC | IUBR  | 110.90 MHz | 18 nm | 286.14                  | -     | 17 ft     |
|        |         |       |            | 33 km | 275.17                  |       | 17 m      |
| 09     | GS      | ISAN  | 111.55 MHz | 10 nm | 106.14                  | 3.10  | 17 ft     |
|        |         |       |            | 19 km | 95.17                   |       | 17 m      |

## KHOU

Region: UNITED STATES  
Timezone: AMERICA/CHICAGO  
Runways: 3

Elevation: 46 ft / 14 m  
Location: 29.646000 -95.277300  
Magnetic Var: 1.692 E

## METAR

KHOU 290253Z 36006KT 10SM BKN250 24/20 A2998 RMK A02 SLP157 T02390200 53013

## TAF

KHOU 290255Z 2903/2924 08005KT P6SM SCT020 FM290800 07006KT 6SM BR VCSH BKN020 FM291500 11009KT P6SM SCT020 BKN020

## Frequencies

|                                       |                                      |
|---------------------------------------|--------------------------------------|
| CLD - 125.45 MHz - CLEARANCE DELIVERY | REC - 124.60 MHz - D-ATIS            |
| COM - 122.95 MHz - HOBBY UNICOM       | GND - 121.90 MHz - HOBBY GROUND      |
| TWR - 118.70 MHz - HOBBY TOWER        | APP - 119.17 MHz - HOUSTON APPROACH  |
| APP - 119.62 MHz - HOUSTON APPROACH   | APP - 120.05 MHz - HOUSTON APPROACH  |
| APP - 124.35 MHz - HOUSTON APPROACH   | APP - 134.45 MHz - HOUSTON APPROACH  |
| DEP - 119.70 MHz - HOUSTON DEPARTURE  | DEP - 123.80 MHz - HOUSTON DEPARTURE |
| DEP - 134.45 MHz - HOUSTON DEPARTURE  |                                      |

## Runways

| Ident | Width  | Length   | Bearing (true)<br>(mag) | Surface  | Threshold<br>Offset | Overrun<br>Length |
|-------|--------|----------|-------------------------|----------|---------------------|-------------------|
| 04    | 151 ft | 7,609 ft | 43.82                   | CONCRETE | 0 ft                | 151 ft            |
|       | 46 m   | 2,319 m  | 42.12                   |          | 0 m                 | 46 m              |
| 22    | 151 ft | 7,609 ft | 223.82                  | CONCRETE | 0 ft                | 151 ft            |
|       | 46 m   | 2,319 m  | 222.13                  |          | 0 m                 | 46 m              |
| 13R   | 151 ft | 7,612 ft | 134.10                  | ASPHALT  | 1,037 ft            | 144 ft            |
|       | 46 m   | 2,320 m  | 132.40                  |          | 316 m               | 44 m              |
| 31L   | 151 ft | 7,612 ft | 314.11                  | ASPHALT  | 0 ft                | 151 ft            |
|       | 46 m   | 2,320 m  | 312.41                  |          | 0 m                 | 46 m              |
| 13L   | 100 ft | 5,152 ft | 134.10                  | CONCRETE | 0 ft                | 0 ft              |
|       | 30 m   | 1,570 m  | 132.40                  |          | 0 m                 | 0 m               |
| 31R   | 100 ft | 5,152 ft | 314.10                  | CONCRETE | 0 ft                | 0 ft              |
|       | 30 m   | 1,570 m  | 312.41                  |          | 0 m                 | 0 m               |

## Approach Nav aids

| Runway | Type    | Ident | Frequency  | Range | Bearing (true)<br>(mag) | Slope | Elevation |
|--------|---------|-------|------------|-------|-------------------------|-------|-----------|
| 04     | DME     | IHUB  | 109.90 MHz | 18 nm | -                       | -     | 36 ft     |
|        |         |       |            | 33 km | -                       |       | 36 m      |
| 13R    | DME     | IPRQ  | 111.30 MHz | 18 nm | -                       | -     | 46 ft     |
|        |         |       |            | 33 km | -                       |       | 46 m      |
| 22     | DME     | IOIB  | 109.90 MHz | 18 nm | -                       | -     | 46 ft     |
|        |         |       |            | 33 km | -                       |       | 46 m      |
| 31L    | DME     | IUPU  | 111.30 MHz | 18 nm | -                       | -     | 46 ft     |
|        |         |       |            | 33 km | -                       |       | 46 m      |
| 04     | LOC-ILS | IHUB  | 109.90 MHz | 18 nm | 43.82                   | -     | 46 ft     |
|        |         |       |            | 33 km | 42.13                   |       | 46 m      |
| 13R    | LOC-ILS | IPRQ  | 111.30 MHz | 18 nm | 134.10                  | -     | 46 ft     |
|        |         |       |            | 33 km | 132.41                  |       | 46 m      |
| 22     | LOC-LOC | IOIB  | 109.90 MHz | 18 nm | 223.82                  | -     | 46 ft     |
|        |         |       |            | 33 km | 222.13                  |       | 46 m      |

| Runway | Type    | Ident | Frequency  | Range | Bearing (true)<br>(mag) | Slope | Elevation |
|--------|---------|-------|------------|-------|-------------------------|-------|-----------|
| 31L    | LOC-ILS | IUPU  | 111.30 MHz | 18 nm | 314.10                  | -     | 46 ft     |
|        |         |       |            | 33 km | 312.41                  |       | 46 m      |
| 04     | GS      | IHUB  | 109.90 MHz | 10 nm | 43.82                   | 3.00  | 46 ft     |
|        |         |       |            | 19 km | 42.13                   |       | 46 m      |
| 13R    | GS      | IPRQ  | 111.30 MHz | 10 nm | 134.10                  | 3.00  | 46 ft     |
|        |         |       |            | 19 km | 132.41                  |       | 46 m      |
| 31L    | GS      | IUPU  | 111.30 MHz | 10 nm | 314.10                  | 3.00  | 46 ft     |
|        |         |       |            | 19 km | 312.41                  |       | 46 m      |