

# Terrain Database Release Forecast

For MK V, MKV-A, MK VI, MK VII, MK VIII, MK XXII EGPWS, Epic EGPWM, A380 AESS

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## Important Notes for v471/571 and v472 release

Honeywell are aware of an obstacle database error in the Venice, Italy area causing Pull Up alerts, and plan to correct this in the next scheduled release, v473.

See page 2 for special note about v472 and LLBG/TLV Tel Aviv / Ben Gurion runway 03/21.

Beginning with version 467, the eastern boundary of the helicopter MK XXII NAM (North America) regional database has been changed from 20 degrees West longitude to 34 degrees West longitude.

MK XXII Helicopter EGPWS operators please note, with offshore operator's agreement Honeywell removed offshore rig and platform obstacles worldwide in database version 464 and later.

## Schedule of Future Release Dates

- Release 470/570 (to include data through AIRAC cycle 1310)
  - Available now for all platforms
  
- Release 471/571 (to include data through AIRAC cycle 1402)
  - Available now for MK V and MK VII, and Primus Epic
  - 15 August 2014 for MKV-A
  - 22 August 2014 for MK VI, MK VIII, and MK XXII
  - 29 August 2014 for A380 AESS
  
- Release 472 (special release to include Tel Aviv/Ben Gurion LLBG/TLV runway 03/21)
  - Available now for MK V and MK VII
  - All other platforms will add LLBG/TLV runway 03/21 in Release 473/573
  
- Release 473/573 (to include data through AIRAC cycle 1407)
  - Setember-October 2014 for all platforms

**RAAS Changes (MK V, MKV-A and MK VII only):**

**The following 14 airports will ADD RAAS capability in database version 471:**

ICAO	City Name	Airport Name	Runways
CYQM	Moncton	Greater Moncton Int'l	06, 11, 24, 29
CYYN	Swift Current	Swift Current	04, 12, 22, 30
FALA	Lanseria	Lanseria Int'l	07, 25
KBUY	Burlington	Burlington-Alamance Reg'l	06, 24
KPSF	Pittsfield	Pittsfield Muni	08, 14, 26, 32
KRFG	Refugio	Rooke	14L, 32R
KSBO	Swainsboro	East Georgia Regional	14, 32
LRCL	Cluj-Napoca	Avram Iancu	07, 25
OAMS	Mazar-E Sharif	Mazar-E Sharif	06, 24
OPST	Sialkot	Sialkot Intl	04, 22
WIMM	Medan	Kualanamu Int'l	05, 23
YBHM	Hamilton I	Hamilton I.	14, 32
ZSOF	Hefei	Xinqiao	15, 33
ZYJD	N/A	Jagdaqi	18, 36

**The following 2 airports will REMOVE RAAS capability in database version 471:**

ICAO	City Name	Airport Name
CYXD	Edmonton	Edmonton City Center
EDDI	Berlin	Tempelhof (Closed)

**The following 43 airports will MODIFY RAAS capability in database version 471:**

ICAO	City Name	Airport Name	Change
CYNL	Points North Landing	Points North Landing	Rwy 15/33 changing to 16/34
CYQB	Quebec	Quebec/Lesage Int'l	Rwy 12/30 changing to 11/29
EGBB	Birmingham	Birmingham	Rwy 33 Displaced Threshold Changed
EGPK	Prestwick	Prestwick	Rwy 13/31 changing to 12/30
FZAA	Kinshasa	N'djili Int'l	Rwy 06 Length Changed Rwy 24 Displaced Threshold Changed
GCFV	Fuerteventura	Fuerteventura	Removed Rwy 01L/19R Rwy 01R/19L changing to 01/19
GVAC	Sal	Amilcar Cabral	Removed Rwy 07/25
HKMO	Mombasa	Moi Int'l	Rwy 15 Length Changed Rwy 33 Length Changed
HKNW	Nairobi	Wilson	Rwy 14 Displaced Threshold Changed

<b>ICAO</b>	<b>City Name</b>	<b>Airport Name</b>	<b>Change</b>
KCRP	Corpus Christi	Corpus Christi Int'l	Rwy 17/35 changing to 18/36
KCXO	Houston	Lone Star Executive	Rwy 14 Displaced Threshold Changed
KDVL	Devils Lake	Devils Lake Rgn'l	Rwy 03 Displaced Threshold Changed Rwy 13 Length Changed Rwy 21 Length Changed Rwy 31 Displaced Threshold Changed
KEWR	Newark	Newark Liberty Int'l	Rwy 11 Length Changed Rwy 29 Displaced Threshold Changed
KFAY	Fayetteville	Fayetteville Regl/Grannis	Rwy 04 Displaced Threshold Changed
KHIO	Portland	Portland-Hillsboro	Rwy 02 Length Changed Rwy 20 Displaced Threshold Changed
KOAK	Oakland	Metro Oakland Int'l	Rwy 09L/27R changing to 10L/28R Rwy 09R/27L changing to 10R/28L Rwy 12 Length Changed Rwy 30 Displaced Threshold Changed
KOSH	Oshkosh	Wittman Reg'l	Rwy 04/22 changing to 05/23
KPDK	Atlanta	Dekalb-Peachtree	Removed Rwy 09/27
KPGV	Greenville	Pitt-Greenville	Removed Rwy 15/33
KRFG	Refugio	Rooke	Rwy 14/32 changing to 14L/32R
KSOP	Pinehurst/Southern Pines	Moore Co	Rwy 05 Displaced Threshold Changed Rwy 23 Length Changed
KSTS	Santa Rosa	Charles M Schulz - Sonoma Co	Rwy 01/19 changing to 02/20
KTIX	Titusville	Space Coast Reg'l	Rwy 09 Displaced Threshold Changed
KTRK	Truckee	Truckee-Tahoe	Rwy 01/19 changing to 02/20 Rwy 10/28 changing to 11/29
KTVC	Traverse City	Cherry Capital	Rwy 10 Length Changed Rwy 28 Length Changed
KTWF	Twin Falls	Joslin Fld-Magic Valley Reg'l	Rwy 07/25 changing to 08/26
KUDG	Darlington	Darlington Co Jetport	Removed Rwy 10/28 Removed Rwy 16/34
KVRB	Vero Beach	Vero Beach Muni	Rwy 11L/29R changing to 12L/30R Rwy 11R/29L changing to 12R/30L
MGGT	Guatemala City	La Aurora Int'l	Rwy 01/19 changing to 02/20
OEMA	Madinah	Pr Mohammad Bin Abdulaziz Int'l	Rwy 17 Displaced Threshold Changed Rwy 35 Length Changed
OMSJ	Sharjah	Sharjah Int'l	Rwy 12 Displaced Threshold Changed
PAJN	Juneau	Juneau Int'l	Rwy 08 Length Changed Rwy 26 Length Changed
PASI	Sitka	Sitka Rocky Gutierrez	Rwy 11 Displaced Threshold Changed Rwy 29 Displaced Threshold Changed

<b>ICAO</b>	<b>City Name</b>	<b>Airport Name</b>	<b>Change</b>
RCQC	Magong	Magong	Rwy 02 Displaced Threshold Changed
RJTT	Tokyo	Tokyo (Haneda) Int'l	Rwy 16L Length Changed Rwy 34R Displaced Threshold Changed
RKSM	Seoul	Seoul / Domestic	Rwy 01 Length Changed Rwy 19 Displaced Threshold Changed
RPLP	Legazpi	Legazpi	Rwy 06 Length Changed Rwy 24 Displaced Threshold Changed
SBCR	Corumba	Corumba Intl	Rwy 09 Length Changed Rwy 27 Length Changed
SKBQ	Barranquilla	Ernesto Cortissoz	Rwy 23 Displaced Threshold Changed
SVMI	Maiquetia	Simon Bolivar Int'l	Rwy 09 Displaced Threshold Changed Rwy 27 Length Changed Rwy 28 Displaced Threshold Changed
TJSJ	San Juan	Luis Munoz Marin Int'l	Rwy 08 Displaced Threshold Changed Rwy 26 Displaced Threshold Changed
WMKK	Kuala Lumpur	Kuala Lumpur Int'l - Sepang	Rwy 14R Displaced Threshold Changed Rwy 14L Length Changed Rwy 32R Displaced Threshold Changed Rwy 32L Length Changed
YPMQ	Port Macquarie	Port Macquarie	Rwy 03 Displaced Threshold Changed Rwy 21 Displaced Threshold Changed

## MK V/VII, MKV-A and A380 AESS Version 471/571 Terrain/Airport/Obstacle Updates:

A. The changes from Terrain Database 470 to Terrain Database 471 are identified below:

(1) Added the airports identified below:

- a) Africa
  - DN05 Obajana, Nigeria
  - FA06 Somerset East, S Afr Rep
  - FMSE Betroka, Madagascar
  - FMSV Betioky, Madagascar
  - FZ01 New Boma, Congo
  - GM03 Tata, Morocco
- b) Asia
  - ZB28 Ejin Alxa, China
  - ZB29 Alxa Youqi, China
  - ZGHC Hechi Jinchengjiang, China
  - ZMHH Kharkhorin, Mongolia
  - ZS40 Yantai Chaoshui Intl, China
- c) Eastern Europe
  - UAST Khalfan Shymkent, Kazakhstan
  - ULMK Khibiny, Russia
  - USDB Bovanenkovo, Russia
  - UTAS Khalfan Mary, Turkmenistan
- d) Europe
  - LPSO Ponte De Sor, Portugal
- e) Middle East
  - OIIS Semnan, Iran
  - OMBT Abu Alabyad, UAE
  - OMQS Qseewrah, UAE
  - OMYY Yasat Alsafli, UAE
  - OORH Ras Al Hadd, Oman
  - OPCD Chandana, Pakistan
  - OPGA Banghala, Pakistan
  - OPRJ Rojhan, Pakistan
  - VE04 Kondatarai, India
- f) North America
  - 19MT N Bar Ranch, USA
  - 5M6 Sugar Springs Airpark, USA
  - 77NV Flying Eagle, USA
  - CFN6 Primrose, Canada

CFR2 Blackwells, Canada  
CJW5 Russell, Canada  
CRA2 Rollick, Canada  
CZVL Villeneuve, Canada  
F02A New Hardin, USA  
K89 Macon-Fower Meml, USA  
KC01 New Conway, USA  
KCLW Clearwater, USA

- g) South America
  - SA51 Nestor Kirchner, Argentina
  - SA52 Tintina, Argentina
  - SCQP Nueva Araucania, Chile
  - SNCV Campina Verde, Brazil
  - SPBL Bolognesi, Peru
  
- h) South Pacific
  - NTGN Napuka, French Pacific O.T. Is
  - UBAL Balladonia Station, Australia
  - UBR1 Balladonia Erl Site, Australia
  - UECO Eco Beach Resort, Australia
  - UEDJ Edjudina, Australia
  - UGAM Gindalbie Mustering, Australia
  - UGBM Gibb Maitland 1, Australia
  - UGWA Yougawalla, Australia
  - UHOM Home Valley, Australia
  - UIKA Ilkurlka, Australia
  - UINK Inkata, Australia
  - ULWL Lake Wells, Australia
  - UMDO Madoonia Downs, Australia
  - UMR1 Madura Erl Site 1, Australia
  - UMR2 Madura Erl Site 2, Australia
  - UMUB Moola Bulla, Australia
  - UNER Nerrima, Australia
  - UNLE Neale Efo, Australia
  - UNOY Nicolay 1, Australia
  - UNRY Newry, Australia
  - UOFF Officer Basin, Australia
  - URBY Ruby Plains, Australia
  - UREI Reid, Australia
  - USEC Second Fortune, Australia
  - USPR Springvale West, Australia
  - USTC Sturt Creek, Australia
  - USTH Southern Hills, Australia

UTYU Tjukayirla R/House, Australia  
UVGA Virginia, Australia  
UYAK Yakanarra, Australia  
WA1X Bawean, Indonesia  
WA2X Tual Baru, Indonesia  
YADD Arubiddy, Australia  
YBAL Balladonia, Australia  
YBDF Bedford Downs, Australia  
YBGI Balgair, Australia  
YCOS Cosmo Newberry, Australia  
YCTW Corktree Well, Australia  
YCYE Coyote, Australia  
YDKG Duketon Gold, Australia  
YDMN Daly River, Australia  
YDUK Duketon, Australia  
YELI Ellendale Mine, Australia  
YEQO El Questro, Australia  
YGLY Glenayle, Australia  
YHAG Haig, Australia  
YJTX Jindalee Transmitter, Australia  
YKAN Kanandah, Australia  
YKBO Kybo, Australia  
YKCH Kitchener, Australia  
YKRE Karonie, Australia  
YLDL Lissadell, Australia  
YMIP Mitchell Plateau, Australia  
YMJD Milajidee, Australia  
YORL Orleans Farms Efo, Australia  
YPNI Prenti Downs, Australia  
YPOP Porphyry, Australia  
YPUA Palumpa, Australia  
YRWA Rawlinna Homestead, Australia  
YSLG Silent Grove, Australia  
YT01 Wellcamp, Australia  
YWDA Windarra, Australia  
YWDJ Windjana Gorge, Australia  
YYRN Yamarna, Australia  
YZAN Zanthus, Australia

(2) Changed the data for the runways identified below:

a) Africa

FACV RW 09/27 Calvinia, S Afr Rep

FCBD RW 04/22 Djambala, Congo

FZAA RW 06/24 N'djili Intl, Democratic Republic Of The Congo



FZAN RW 11/29 Inga, Democratic Republic Of The Congo  
HCMH RW 06/24 Egal, Somalia  
HTMA RW 15/33 Mafia, Tanzania

- b) Asia  
ZGGG RW 03/21 Guangzhou-Baiyun Intl, China
- c) Eastern Europe  
UOII RW 12/30 Igarka, Russia
- d) Europe  
LDRO RW 14/32 Otocac, Croatia  
LYUZ RW 11/29 Ponikve, Yugoslavia
- e) Latin America  
MUMZ RW 08/26 Sierra Maestra, Cuba
- f) Middle East  
LTBH RW 04/22 Canakkale AB, Turkey  
OATN RW 12/30 Tarin Kowt, Afghanistan  
OEMA RW 17/35 Pr Mohammad Bin Abdulaziz Intl, Saudi Arabia  
OLRA RW 04/22 Rayak AB, Lebanon  
OPSN RW 17/35 Sehwan Sharif, Pakistan  
VAGD RW 04/22 Gondia, India
- g) North America  
OTX1 RW 01/19 Pecan Plantation, USA  
29F RW 17/35 Vaughn Spraying, USA  
9TE2 RW 14/32 JI Bar Ranch, USA  
CYCP RW 01/19 Blue River, Canada  
F02 RW 04/22 Fairgrounds, USA  
KDV L RW 13/31 Devils Lake Rgnl, USA  
L90 RW 13/31 Ocotillo, USA  
NM32 RW 01/19 Bell Ranch Waggoner, USA
- h) South America  
SBCR RW 09/27 Corumba Intl, Brazil
- i) South Pacific  
NCMK RW 10/28 Akatoka Manava, Cook Is  
NZGC RW 01/19 Gore, New Zealand  
YGYM RW 14/32 Gympie, Australia  
YMTW RW 15/33 Martins Well, Australia

(3) Added the data for the new runways identified below:

- a) North America  
CGS2 RW 16/34 Goose Lake, Canada  
KGLY RW 18/36 Clinton Meml, USA

(4) Significant changes to runways were made at the airports identified below.

**NOTE:** Updates made based on new verification analysis or new AIP data. Length is in feet.

City Name	ICAO	Airport Name	RW ID	New Length	Old Length
EDMONTON	CZVL	VILLENEUVE	RW 08/26	5001	3498
LEEWARDEN	EHLW	LEEWARDEN	RW 05/23	9652	7844
ROXBURGH	NZRX	ROXBURGH	RW 16/34	4214	6101
TARAZ	UADD	AULIE-ATA	RW 13/31	11456	9528

(5) Used the data as of 20 January 2014 to change all of the airport data.

**NOTE:** International Civil Aviation Organization (ICAO) airport code changes and runway identification changes do not affect the Enhanced Ground Proximity Warning System (EGPWS) terrain alerting functions. Only the Runway Awareness and Advisory System (RAAS) and SmartRunway and SmartLanding functions use this data. Data on airports and runways contained in the database can be found at <http://ads.honeywell.com/egpws/egpwssearch.jsp>

(6) Added and changed the terrain data for the locations identified below:

- a) North America  
3N6 Old Bridge, USA  
3NJ6 Inductotherm, USA  
47N Central Jersey Regl, USA  
KBLM Monmouth Executive, USA  
KCDW Essex Co, USA  
KCVH Hollister Mun, USA  
KEWR Newark Liberty Intl, USA  
KKIC Mesa Del Rey, USA  
KLDJ Linden, USA  
KMMU Morristown Mun, USA  
KMRY Monterey Regional, USA  
KNEL Lakehurst Naes, USA  
KSNS Salinas Mun, USA  
KTEB Teterboro, USA  
KTTN Trenton Mercer, USA  
KWRI Joint Base Mc Guire Dix Lakehu, USA  
KWVI Watsonville Mun, USA

N51 Solberg-Hunterdon, USA  
N87 Trenton-Robbinsville, USA

- b) Pacific
  - RP04 Nonoc, Philippines
  - RPMS Surigao, Philippines
  - RPMW Tandag, Philippines
  - RPNS Siargao Natl, Philippines
  - RPUV Virac, Philippines
  - RPVV Francisco B. Reyes, Philippines
  
- c) South America
  - SA43 Caviahue, Argentina
  - SANL Cap Vicente A Almonacid, Argentina
  - SBEK Jacareacanga, Brazil
  - SCAR Chacalluta Intl, Chile
  - SDCA Capao Bonito, Brazil
  - SK55 Las Cruces, Colombia
  - SKBG Palonegro, Colombia
  - SKBS Jose Celestino Mutis, Colombia
  - SKEJ Yariguies, Colombia
  - SKLP La Pedrera, Colombia
  - SKPC German Olano, Colombia
  - SKPR Morela, Colombia
  - SLAG Monteagudo, Bolivia
  - SLBJ Bermejo, Bolivia
  - SLTJ Capt Oriel Lea Plaza Intl, Bolivia
  - SLVM Rafael Pabon, Bolivia
  - SLYA Yacuiba, Bolivia
  - SP15 Chao, Peru
  - SP20 Churro Pampa, Peru
  - SP37 Las Dunas, Peru
  - SP57 Pampa Hermosa, Peru
  - SP59 Pata De Gallo, Peru
  - SP75 Saposoa, Peru
  - SPBB Moyobamba, Peru
  - SPBC Caballococha, Peru
  - SPCL Cap Fap David Abenzur Rengifo, Peru
  - SPCP Pucacaca, Peru
  - SPEN Iscozasin, Peru
  - SPEO Tte Fap Jaime De Montreuil, Peru
  - SPGM Tingo Maria, Peru
  - SPHZ Comandante German Arias Grazzi, Peru
  - SPJJ Francisco Carle, Peru

SPJN San Juan De Marcona, Peru  
SPJR Gen Armando Revoredo Iglesias, Peru  
SPMF Manuel Prado, Peru  
SPMS Moises Benzaquen Rengifo, Peru  
SPNC Alferez David Figueroa Fernand, Peru  
SPSO Pisco, Peru  
SPST Cap Fap Guillermo Del Castillo, Peru  
SPTE San Francisco, Peru  
SPTN Col Carlos Ciriani Santa Rosa, Peru  
SPTR Tournavista, Peru  
SPUC Huamachuco, Peru  
SPVI Vicco, Peru  
SVBC Gen. Jose Antonio Anzoategui I, Venezuela  
SVCO Carora, Venezuela  
SVCU Mariscal Antonio Jose De Sucre, Venezuela  
SVVQ Lara, Venezuela  
SVVQ Venelac, Venezuela  
SWBR Borba, Brazil  
SWJP Bittencourt, Brazil

- d) South Pacific
  - WABB Frans Kaisiepo, Indonesia
  - WABI Nabire, Indonesia

(7) Added higher resolution terrain data for the locations identified below:

- a) Pacific
  - RPNS Siargao Natl, Philippines
  - RPUV Virac, Philippines
  - RPVV Francisco B. Reyes, Philippines
- b) South America
  - SPHO Col Alfredo Mendivil Duarte, Peru
- c) South Pacific
  - YANG West Angelas, Australia

(8) Added new obstacle data as identified below:

Updated North American obstacles with the latest NACO DOF data.

Updated European obstacles with the latest Skyforce data.

(9) In support of Airbus Runway Overrun Protection (ROP) function, an update was made to the list of ROP Valid runways in the database. For a list of ROP valid runways, visit: <https://ads.honeywell.com/egpws/egpwssearch.jsp>. Open the RAAS/ROP spreadsheet and select the ROP tab.

## MK VI/VIII Version 471 Terrain/Airport/Obstacle Updates:

A. The changes from Terrain Database 470 to Terrain Database 471 are identified below:

(1) Added the airports identified below:

- a) Africa
  - DN05 Obajana, Nigeria
  - FA06 Somerset East, S Afr Rep
  - FM01 Ambatomainty, Madagascar
  - FMSE Betroka, Madagascar
  - FMSV Betioky, Madagascar
  - FZ01 New Boma, Congo
  - GM03 Tata, Morocco
  
- a) Asia
  - ZB28 Ejin Alxa, China
  - ZB29 Alxa Youqi, China
  - ZGHC Hechi Jinchengjiang, China
  - ZS40 Yantai Chaoshui Intl, China
  
- b) Eastern Europe
  - UAST Khalfan Shymkent, Kazakhstan
  - ULMK Khibiny, Russia
  - USDB Bovanenkovo, Russia
  - UTAS Khalfan Mary, Turkmenistan
  - ZMHH Kharkhorin, Mongolia
  
- c) Europe
  - EHOW Oostwold, Netherlands
  - LIVV Vische, Italy
  
- d) Middle East
  - OIIS Semnan, Iran
  - OMBT Abu Alabyad, UAE
  - OMQS Qseewrah, UAE
  - OMYY Yasat Alsafli, UAE
  - OORH Ras Al Hadd, Oman
  - OPCD Chandana, Pakistan
  - OPGA Banghala, Pakistan
  - OPRJ Rojhan, Pakistan
  - VE04 Kondatarai, India
  
- e) North America
  - 19MT N Bar Ranch, USA
  - 1BT Bonne Terre Muni, USA

2KS6 Flying H, USA  
46MI Cloud Nine West, USA  
5M6 Sugar Springs Airpark, USA  
77NV Flying Eagle, USA  
CBD8 Flying R Ranch, Canada  
CFN6 Primrose, Canada  
CMB5 Bellshill, Canada  
CPC2 Port Carling, Canada  
CRA2 Rollick, Canada  
CWH5 Inglis Field, Canada  
F02A New Hardin, USA  
KC01 New Conway, USA  
MI26 Cloud Nine East, USA  
WN29 Blue Ribbon, USA

- f) South America  
SA51 Nestor Kirchner, Argentina  
SA52 Tintina, Argentina  
SA53 Itati, Argentina  
SCQP Nueva Araucania, Chile  
SCVN Huancara, Chile  
SDMO Monte Alto, Brazil  
SDTB Atibaia, Brazil  
SDVH Faz. Vale Eldorado, Brazil  
SPBL Bolognesi, Peru  
SVRS El Gran Roque Intl., Venezuela
- g) South Pacific  
NZFL Flat Hills, New Zealand  
NZOT Otaki, New Zealand  
NZPO Porangahau, New Zealand  
NZRC Ryans Creek, New Zealand  
NZSF Springfield, New Zealand  
NZTS Taharoa, New Zealand  
UAGD Argyle Downs, Australia  
UBAL Balladonia Station, Australia  
UBEF Beefwood Park, Australia  
UBKA Bulka, Australia  
UBLA Blina, Australia  
UBR1 Balladonia Erl Site, Australia  
UCLH Carlton Hill, Australia  
UCOD Cowarna Downs, Australia  
UECO Eco Beach Resort, Australia  
UEDJ Edjudina, Australia

UEM2 Emma Gorge, Australia  
UFRZ Fraser Range, Australia  
UGAM Gindalbie Mustering, Australia  
UGBM Gibb Maitland 1, Australia  
UGEE Geebung, Australia  
UGGO Gogo, Australia  
UGWA Yougawalla, Australia  
UHOM Home Valley, Australia  
UIKA Ilkurlka, Australia  
UINK Inkata, Australia  
UJUB Jubilee Downs, Australia  
UKLV Kinclaven, Australia  
ULRW Larrawa, Australia  
ULWL Lake Wells, Australia  
UMBF Mowla Bluff, Australia  
UMDO Madoonia Downs, Australia  
UMED Meda, Australia  
UMGQ Mulga Queen, Australia  
UMR1 Madura Erl Site 1, Australia  
UMR2 Madura Erl Site 2, Australia  
UMUB Moola Bulla, Australia  
UNER Nerrima, Australia  
UNLE Neale Efo, Australia  
UNOY Nicolay 1, Australia  
UNRY Newry, Australia  
UOFF Officer Basin, Australia  
UPJN Pinjin, Australia  
URBY Ruby Plains, Australia  
UREI Reid, Australia  
USAN Sandy Point, Australia  
USEC Second Fortune, Australia  
USPR Springvale West, Australia  
USTC Sturt Creek, Australia  
USTH Southern Hills, Australia  
UTUR Turner River, Australia  
UTYU Tjukayirla R/House, Australia  
UVGA Virginia, Australia  
UYAK Yakanarra, Australia  
UYDA Yundamindra Efo, Australia  
WA1X Bawean, Indonesia  
WA2X Tual Baru, Indonesia  
WAPI Olilit, Indonesia  
YADD Arubiddy, Australia  
YBAL Balladonia, Australia

YBDF Bedford Downs, Australia  
YBGI Balgair, Australia  
YCOS Cosmo Newberry, Australia  
YCTW Corktree Well, Australia  
YCYE Coyote, Australia  
YDKG Duketon Gold, Australia  
YDMN Daly River, Australia  
YDUK Duketon, Australia  
YELI Ellendale Mine, Australia  
YEQO El Questro, Australia  
YFOS Fossil Downs, Australia  
YFWY Faraway Bay, Australia  
YGLY Glenayle, Australia  
YHAG Haig, Australia  
YJTX Jindalee Transmitter, Australia  
YKAN Kanandah, Australia  
YKBO Kybo, Australia  
YKCH Kitchener, Australia  
YKIB Kimbolton, Australia  
YKLI Koolan Island, Australia  
YKRE Karonie, Australia  
YLDL Lissadell, Australia  
YLPD Leopold Downs, Australia  
YMBX Mundrabilla Station, Australia  
YMIP Mitchell Plateau, Australia  
YMJD Milajidee, Australia  
YNES Nelson Springs, Australia  
YNON Noondoonia, Australia  
YORA Moonera, Australia  
YORL Orleans Farms Efo, Australia  
YPEP Peppimenarti, Australia  
YPNI Prenti Downs, Australia  
YPOP Porphyry, Australia  
YPUA Palumpa, Australia  
YRWA Rawlinna Homestead, Australia  
YSLG Silent Grove, Australia  
YSPK Spring Creek Efo, Australia  
YT01 Wellcamp, Australia  
YWDA Windarra, Australia  
YWDJ Windjana Gorge, Australia  
YYRN Yamarna, Australia  
YZAN Zanthus, Australia

(2) Changed the data for the runways identified below:



- a) Africa
  - FACV RW 09/27 Calvinia, S Afr Rep
  - FCBD RW 04/22 Djambala, Congo
  - FZAA RW 06/24 N'djili Intl, Democratic Republic Of The Congo
  - FZAN RW 11/29 Inga, Democratic Republic Of The Congo
  - HCMH RW 06/24 Egal, Somalia
  - HKEM RW 14/32 Embu, Kenya
  - HTMA RW 15/33 Mafia, Tanzania
  - HTMV RW 06/24 Mvumi, Tanzania
- b) Eastern Europe
  - UOII RW 12/30 Igarka, Russia
- c) Europe
  - EINC RW 18/36 Newcastle, Ireland
  - LDRO RW 14/32 Otocac, Croatia
  - LPSO RW 03/21 Ponte De Sor, Portugal
  - LYUZ RW 11/29 Ponikve, Yugoslavia
- d) Latin America
  - MUMZ RW 08/26 Sierra Maestra, Cuba
- e) Middle East
  - LTBH RW 04/22 Canakkale AB, Turkey
  - OATN RW 12/30 Tarin Kowt, Afghanistan
  - OEMA RW 17/35 Pr Mohammad Bin Abdulaziz Intl, Saudi Arabia
  - OLRA RW 04/22 Rayak AB, Lebanon
  - OPSN RW 17/35 Sehwan Sharif, Pakistan
  - VAGD RW 04/22 Gondia, India
  - VNJS RW 06/24 Jomsom, Nepal
- f) North America
  - 0TX1 RW 01/19 Pecan Plantation, USA
  - 29F RW 17/35 Vaughn Spraying, USA
  - 6B4 RW 13/31 Frankfort-Highland, USA
  - 7Y2 RW 09/27 Thompsonville, USA
  - 7Y2 RW 17/35 Thompsonville, USA
  - 9TE2 RW 14/32 JI Bar Ranch, USA
  - CBL3 RW 12/30 Gordon Field, Canada
  - CFR2 RW 16/34 Blackwells, Canada
  - CYBP RW 12/30 Brooks Regional, Canada
  - CYCP RW 01/19 Blue River, Canada
  - F02 RW 04/22 Fairgrounds, USA
  - KDVL RW 13/31 Devils Lake Rgnl, USA
  - L90 RW 09/27 Ocotillo, USA

L90 RW 13/31 Ocotillo, USA  
NM32 RW 01/19 Bell Ranch Waggoner, USA  
TX42 RW 09/27 Fair Weather Field, USA  
TX42 RW 13/31 Fair Weather Field, USA  
TX42 RW 18/36 Fair Weather Field, USA  
Y93 RW 05/23 Atlanta Mun, USA  
Y93 RW 13/31 Atlanta Mun, USA

g) South America

SBCR RW 09/27 Corumba Intl, Brazil  
SNCV RW 14/32 Campina Verde, Brazil

h) South Pacific

NCMK RW 10/28 Akatoka Manava, Cook Is  
NZGC RW 01/19 Gore, New Zealand  
NZPH RW 02/20 Pudding Hill, New Zealand  
NZYP RW 02/20 Waipukurau, New Zealand  
YGYM RW 14/32 Gympie, Australia  
YMIK RW 01/19 Millers Creek, Australia  
YMTW RW 15/33 Martins Well, Australia  
YPCH RW 18/36 Patchewollock, Australia  
YPNG RW 05/23 Penong, Australia  
YPNG RW 13/31 Penong, Australia

(3) Added the data for the new runways identified below:

a) Asia

ZGGG RW 03/21 Guangzhou-Baiyun Intl, China

b) Europe

EBST RW 06R/24L Brustem, Belgium

c) North America

CGS2 RW 14R/32L Goose Lake, Canada  
CGS2 RW 16/34 Goose Lake, Canada  
CYPQ RW 13/31 Peterborough, Canada  
KGLY RW 18/36 Clinton Meml, USA

d) South Pacific

YMTW RW 11/29 Martins Well, Australia

(4) Significant changes to runways were made at the airports identified below.

**NOTE:** Updates made based on new verification analysis or new AIP data. Length is in feet.

City Name	ICAO	Airport Name	RW ID	New Length	Old Length
EDMONTON	CZVL	VILLENEUVE	RW 08/26	5001	3498
LEEWARDEN	EHLW	LEEWARDEN	RW 05/23	9652	7844
ROXBURGH	NZRX	ROXBURGH	RW 16/34	4214	6101
TARAZ	UADD	AULIE-ATA	RW 13/31	11456	9528

(5) Used the data as of 20 January 2014 to change all of the airport data.

**NOTE:** International Civil Aviation Organization (ICAO) airport code changes and runway identification changes do not affect the Enhanced Ground Proximity Warning System (EGPWS) terrain alerting functions. Only the Runway Awareness and Advisory System (RAAS) and SmartRunway and SmartLanding functions use this data. Data on airports and runways contained in the database can be found at <http://ads.honeywell.com/egpws/egpwssearch.jsp>

(6) Added and changed the terrain data for the locations identified below:

- a) Pacific
  - RP04 Nonoc, Philippines
  - RPLZ Bacon Natl, Philippines
  - RPMS Surigao, Philippines
  - RPMW Tandag, Philippines
  - RPNS Siargao Natl, Philippines
  - RPUV Virac, Philippines
  - RPVV Francisco B. Reyes, Philippines
- b) North America
  - 1C9 Frazier Lake, USA
  - 1N7 Blirstown, USA
  - 2N8 Marlboro, USA
  - 39N Princeton, USA
  - 3N6 Old Bridge, USA
  - 3NJ6 Inductotherm, USA
  - 47N Central Jersey Regl, USA
  - 9CL2 Christensen Ranch, USA
  - KBLM Monmouth Executive, USA
  - KCDW Essex Co, USA
  - KCVH Hollister Mun, USA
  - KEWR Newark Liberty Intl, USA
  - KKIC Mesa Del Rey, USA
  - KLDJ Linden, USA
  - KMMU Morristown Mun, USA
  - KMRY Monterey Regional, USA
  - KNEL Lakehurst Naes, USA

KOAR Marina Mun, USA  
KSMQ Somerset, USA  
KSNS Salinas Mun, USA  
KTEB Teterboro, USA  
KTTN Trenton Mercer, USA  
KWRI Joint Base Mc Guire Dix Lakehu, USA  
KWVI Watsonville Mun, USA  
N05 Hackettstown, USA  
N07 Lincoln Park, USA  
N12 Lakewood, USA  
N40 Sky Manor, USA  
N51 Solberg-Hunterdon, USA  
N75 Twin Pine, USA  
N87 Trenton-Robbinsville, USA

c) South America

SA43 Caviahue, Argentina  
SANL Cap Vicente A Almonacid, Argentina  
SBEK Jacareacanga, Brazil  
SCAR Chacalluta Intl, Chile  
SDCA Capao Bonito, Brazil  
SK55 Las Cruces, Colombia  
SKBG Palonegro, Colombia  
SKBS Jose Celestino Mutis, Colombia  
SKEJ Yariguies, Colombia  
SKLP La Pedrera, Colombia  
SKPC German Olano, Colombia  
SKPN Puerto Nare, Colombia  
SKPR Morela, Colombia  
SLAG Monteagudo, Bolivia  
SLBJ Bermejo, Bolivia  
SLTJ Capt Oriel Lea Plaza Intl, Bolivia  
SLVM Rafael Pabon, Bolivia  
SLYA Yacuiba, Bolivia  
SNMO Morada Nova, Brazil  
SP15 Chao, Peru  
SP20 Churro Pampa, Peru  
SP37 Las Dunas, Peru  
SP43 Los Misioneros, Peru  
SP57 Pampa Hermosa, Peru  
SP59 Pata De Gallo, Peru  
SP75 Saposoa, Peru  
SP90 Yarinacocha, Peru  
SPAM Camana, Peru

SPBB Moyobamba, Peru  
SPBC Caballococha, Peru  
SPCL Cap Fap David Abenzur Rengifo, Peru  
SPCP Pucacaca, Peru  
SPEN Iscozasin, Peru  
SPEO Tte Fap Jaime De Montreuil, Peru  
SPGM Tingo Maria, Peru  
SPHZ Comandante German Arias Grazzi, Peru  
SPJB Pampa Grande, Peru  
SPJJ Francisco Carle, Peru  
SPJN San Juan De Marcona, Peru  
SPJR Gen Armando Revoredo Iglesias, Peru  
SPKI Kiteni, Peru  
SPMF Manuel Prado, Peru  
SPMS Moises Benzaquen Rengifo, Peru  
SPNC Alferez David Figueroa Fernand, Peru  
SPPG Paramonga, Peru  
SPRM Capitan Alvarino, Peru  
SPSO Pisco, Peru  
SPST Cap Fap Guillermo Del Castillo, Peru  
SPTE San Francisco, Peru  
SPTN Col Carlos Ciriani Santa Rosa, Peru  
SPTR Tournavista, Peru  
SPUC Huamachuco, Peru  
SPVI Vicco, Peru  
SPZA Maria Reiche Neuman, Peru  
SVBC Gen. Jose Antonio Anzoategui I, Venezuela  
SVCO Carora, Venezuela  
SVCU Mariscal Antonio Jose De Sucre, Venezuela  
SVVQ Lara, Venezuela  
SVVQ Venelac, Venezuela  
SWBR Borba, Brazil  
SWJP Bittencourt, Brazil

- d) South Pacific
  - WABB Frans Kaisiepo, Indonesia
  - WABI Nabire, Indonesia

(7) Added new obstacle data as identified below:

Updated North American obstacles with the latest NACO DOF data.

Updated European obstacles with the latest Skyforce data.

## MK XXII Version 471 Terrain/Airport/Obstacle Updates:

A. The changes from Terrain Database 470 to Terrain Database 471 are identified below:

(1) Added and changed the terrain data for the locations identified below:

a) Pacific

RP04 Nonoc, Philippines  
RPLZ Bacon Natl, Philippines  
RPMS Surigao, Philippines  
RPMW Tandag, Philippines  
RPNS Siargao Natl, Philippines  
RPUV Virac, Philippines  
RPVV Francisco B. Reyes, Philippines

b) North America

1C9 Frazier Lake, USA  
1N7 Blirstown, USA  
2N8 Marlboro, USA  
39N Princeton, USA  
3N6 Old Bridge, USA  
3NJ6 Inductotherm, USA  
47N Central Jersey Regl, USA  
9CL2 Christensen Ranch, USA  
KBLM Monmouth Executive, USA  
KCDW Essex Co, USA  
KCVH Hollister Mun, USA  
KEWR Newark Liberty Intl, USA  
KKIC Mesa Del Rey, USA  
KLDJ Linden, USA  
KMMU Morristown Mun, USA  
KMRY Monterey Regional, USA  
KNEL Lakehurst Naes, USA  
KOAR Marina Mun, USA  
KSMQ Somerset, USA  
KSNS Salinas Mun, USA  
KTEB Teterboro, USA  
KTTN Trenton Mercer, USA  
KWRI Joint Base Mc Guire Dix Lakehu, USA  
KWVI Watsonville Mun, USA  
N05 Hackettstown, USA  
N07 Lincoln Park, USA  
N12 Lakewood, USA  
N40 Sky Manor, USA  
N51 Solberg-Hunterdon, USA

N75 Twin Pine, USA  
N87 Trenton-Robbinsville, USA

- c) South America
  - SA43 Caviahue, Argentina
  - SANL Cap Vicente A Almonacid, Argentina
  - SBEK Jacareacanga, Brazil
  - SCAR Chacalluta Intl, Chile
  - SDCA Capao Bonito, Brazil
  - SK55 Las Cruces, Colombia
  - SKBG Palonegro, Colombia
  - SKBS Jose Celestino Mutis, Colombia
  - SKEJ Yariguies, Colombia
  - SKLP La Pedrera, Colombia
  - SKPC German Olano, Colombia
  - SKPN Puerto Nare, Colombia
  - SKPR Morela, Colombia
  - SLAG Monteagudo, Bolivia
  - SLBJ Bermejo, Bolivia
  - SLTJ Capt Oriel Lea Plaza Intl, Bolivia
  - SLVM Rafael Pabon, Bolivia
  - SLYA Yacuiba, Bolivia
  - SNMO Morada Nova, Brazil
  - SP15 Chao, Peru
  - SP20 Churro Pampa, Peru
  - SP37 Las Dunas, Peru
  - SP43 Los Misioneros, Peru
  - SP57 Pampa Hermosa, Peru
  - SP59 Pata De Gallo, Peru
  - SP75 Saposo, Peru
  - SP90 Yarinacocha, Peru
  - SPAM Camana, Peru
  - SPBB Moyobamba, Peru
  - SPBC Caballococha, Peru
  - SPCL Cap Fap David Abenzur Rengifo, Peru
  - SPCP Pucacaca, Peru
  - SPEN Iscozasin, Peru
  - SPEO Tte Fap Jaime De Montreuil, Peru
  - SPGM Tingo Maria, Peru
  - SPHZ Comandante German Arias Grazzi, Peru
  - SPJB Pampa Grande, Peru
  - SPJJ Francisco Carle, Peru
  - SPJN San Juan De Marcona, Peru
  - SPJR Gen Armando Revoredo Iglesias, Peru

SPKI Kiteni, Peru  
SPMF Manuel Prado, Peru  
SPMS Moises Benzaquen Rengifo, Peru  
SPNC Alferes David Figueroa Fernand, Peru  
SPPG Paramonga, Peru  
SPRM Capitan Alvarino, Peru  
SPSO Pisco, Peru  
SPST Cap Fap Guillermo Del Castillo, Peru  
SPTE San Francisco, Peru  
SPTN Col Carlos Ciriani Santa Rosa, Peru  
SPTR Tournavista, Peru  
SPUC Huamachuco, Peru  
SPVI Vicco, Peru  
SPZA Maria Reiche Neuman, Peru  
SVBC Gen. Jose Antonio Anzoategui I, Venezuela  
SVCO Carora, Venezuela  
SVCU Mariscal Antonio Jose De Sucre, Venezuela  
SVVQ Lara, Venezuela  
SVVQ Venelac, Venezuela  
SWBR Borba, Brazil  
SWJP Bittencourt, Brazil

- d) South Pacific
  - WABB Frans Kaisiepo, Indonesia
  - WABI Nabire, Indonesia

(2) Added new obstacle data as identified below:

Updated North American obstacles with the latest NACO DOF data.

Updated European obstacles with the latest Skyforce data.