

DEDICATED TO HELPING BUSINESS ACHIEVE ITS HIGHEST GOALS.



China, from a Pilot's Perspective

Wednesday, March 23, 2016 | 9:50 a.m. – 10:15 am

PRESENTED BY:

Bjorn Knudsen, M&N Aviation



Overview

- **Permits and Operational Lead Times**
- **Visas**
- **Flight Planning**
- **Common Destinations**
- **Flight Operations**
- **Safety and Security**
- **Questions**



Permits and Operational Lead Times

- **Operational Permit/ Slot Times 3-5 Business Days Lead Time**
- **Once obtained very few changes allowed, day of possible depending on location**
- **N-numbered aircraft restricted to 6 consecutive legs.**

Visas

- **Need Flight Crew Visa , C Visa**
- **US Passports holders can now get 5 year, multiple entry Visas. Should be obtained at Chinese Consulate for your area, i.e. Chinese Consulate Chicago for Midwest.**
- **Other Nationalities might be restricted to dual entry, 6 month Visa**
- **Position in/out via Airline, need Business (M) Visa and Crew (C) Visa**
- **Caution using Business (M) Visa as operating Crew**

Visas

- **Passport must have one or more blank pages and more than six months before expiry.**
- **For Multiple entry - 5 year Visas, passport must have a minimum of 5 years and 6 month validity remaining.**
- **Application form, one passport style 2x2 photo on white background**
- **Original Business letter from Flight Department or Company.**
- **Photocopy of Flight Crew ID, must be valid and show expiration date.**
- **For expedited Visas, need flight itinerary showing departure in less than one week.**
- **Copy of State-issued drivers license**

Flight Planning

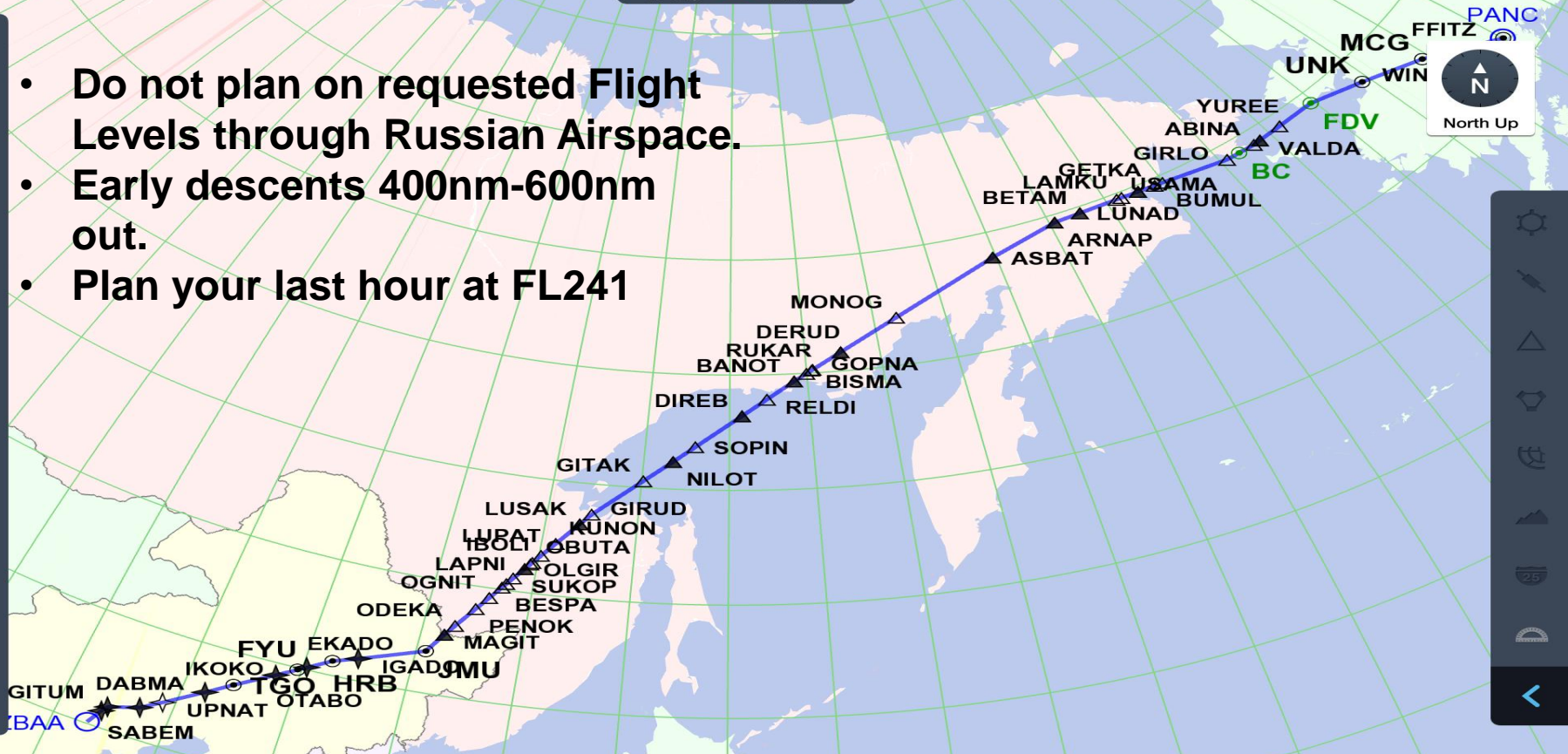
- **Service Providers knows the best up to date routings.**
- **Re-routes**
- **Weather**
- **Departures Northeast bound usually restricted to max FL400 through Russian Airspace....**
- **Direct departures to Taiwan (RCTP) now allowed from certain airports.**
- **Be very Conservative in Long-Range planning, do not plan Long Range Cruise, leaves you no options**
- **PANC-ZBAA, 3521NM, easy right?**

Sources: Jeppesen, Chinese Consulate,

High Enroute

PANC  ZBAA

- Do not plan on requested Flight Levels through Russian Airspace.
- Early descents 400nm-600nm out.
- Plan your last hour at FL241



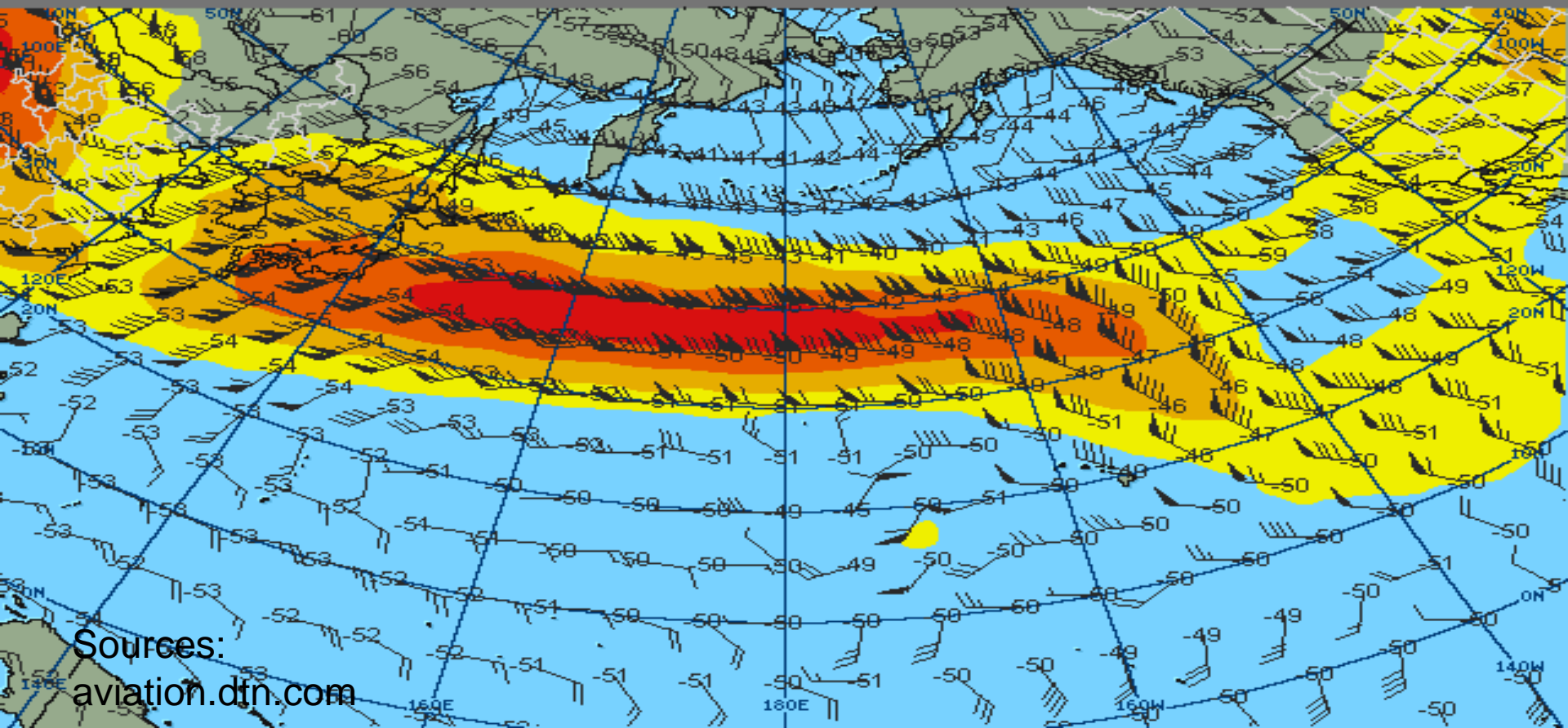
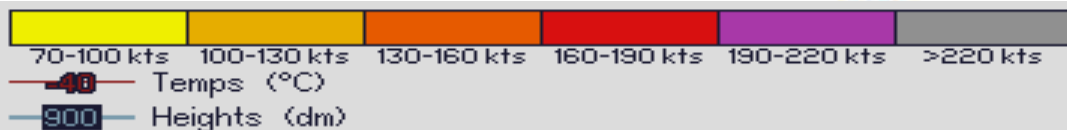
Winds/Temps Aloft

Valid: 1800 UTC Fri 19 Feb 2016

Issued: 0000 UTC Fri 19 Feb 2016

Updated: Every 6 Hours

FL390



Sources:
aviation.dfn.com

Common Destinations

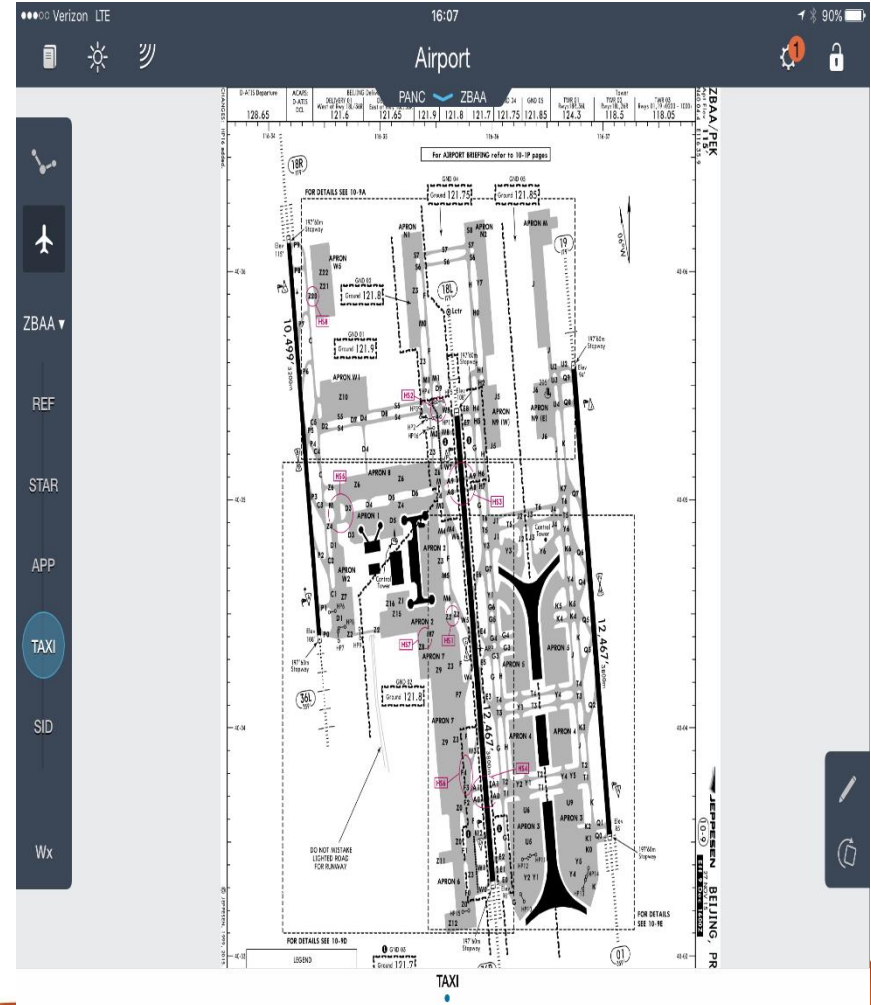
- Beijing ZBAA
- Shanghai ZSPD Pudong and ZSSS Hongqiao
- Tianjin ZBTJ
- Chongqing ZUCK
- Chengdu ZUUU
- Fuzhou ZSFZ
- Wuhan ZHHH
- Hong Kong VHHH



Beijing Capital ZBAA

- Congested, parking max 24-48 hours for GA aircraft.
- One slot between 0800-2200 local per aircraft.
- No GA departures 0700-0900
- GA Terminal
- Easy CIQ in GA Terminal
- Hotels close
- Handler usually not allowed on ramp

Sources: Jeppesen, Chinese Consulate,

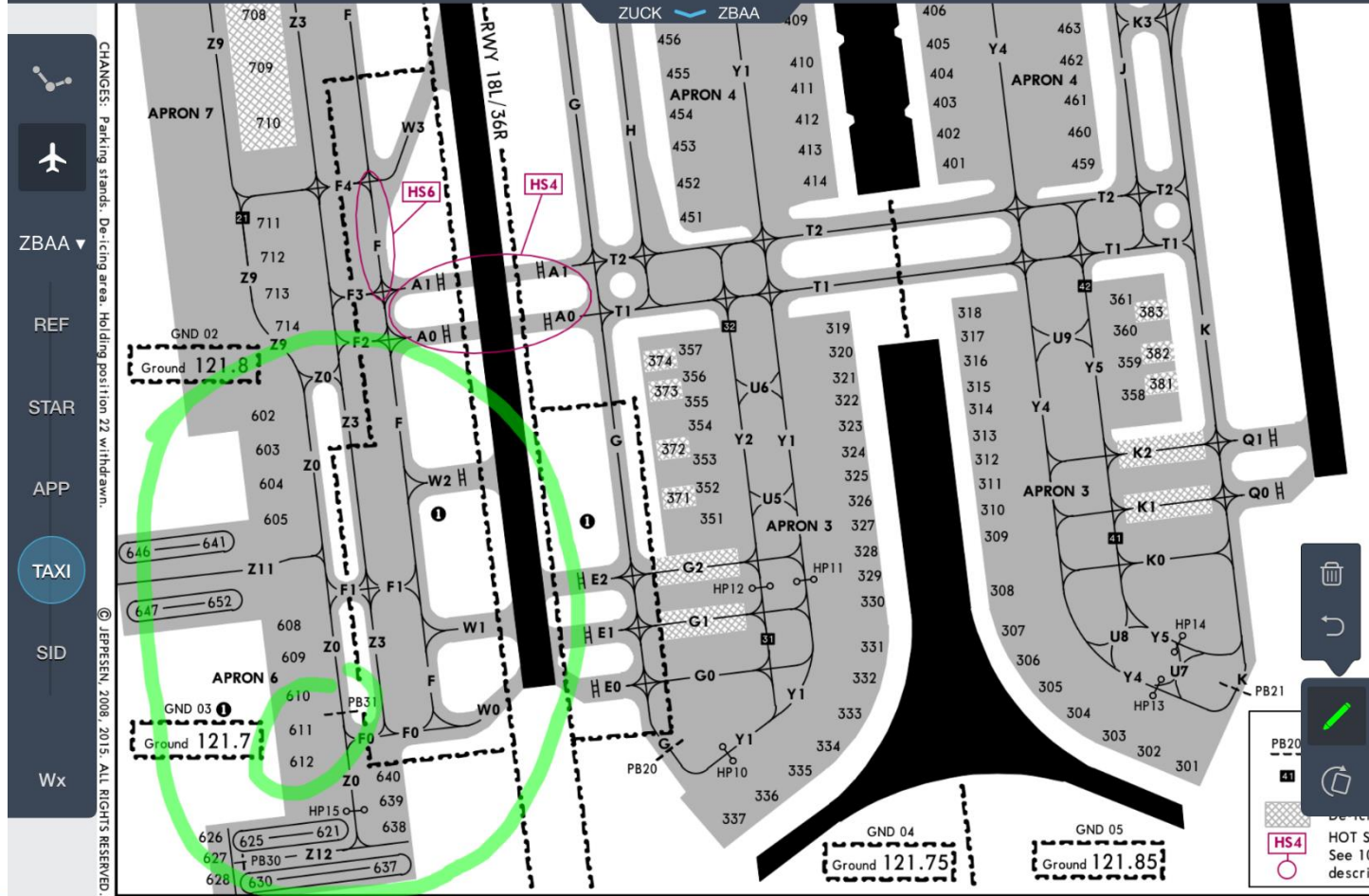


Beijing Capital ZBAA

- Reposition ZBTJ Tianjin
- Need to sign and understand departure procedure sheet



Sources: Jeppesen, NBAA



- Re-Fuel only spots
- Stand 612
- No Re-fueling with pax onboard.

Shanghai Pudong ZSPD

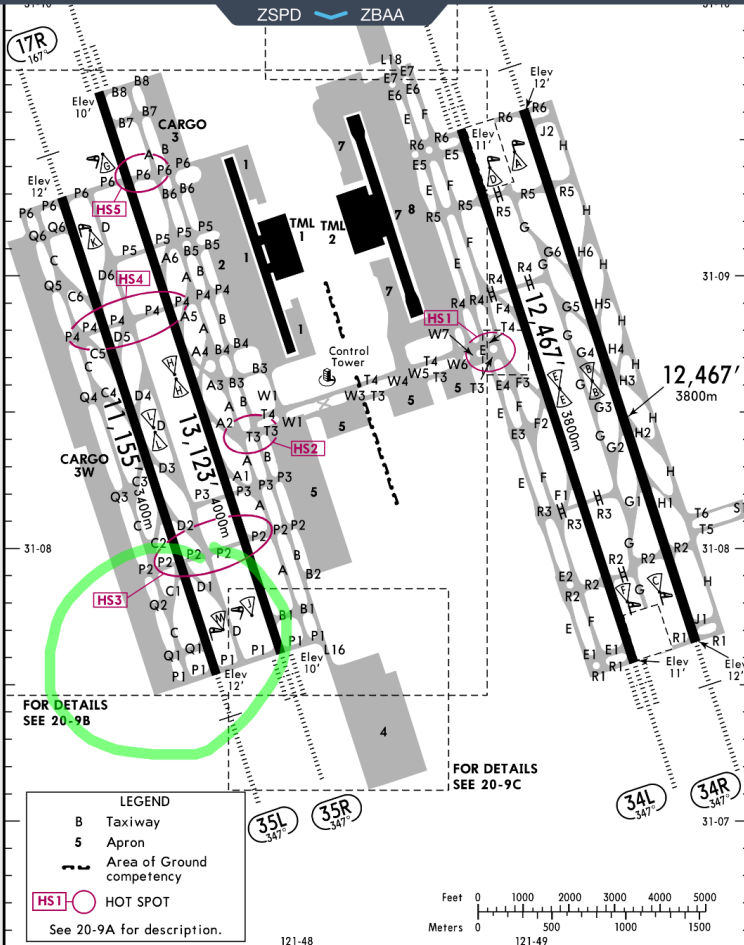
- Shanghai airports ZSPD and ZSSS can be requested, but which you get on permit depends on arrival and departures.
- Most common, busier with a lot of airline traffic
- No Executive Terminal. Clear CIQ through Terminal.
- GA Departure curfew 0700-0900 local.
- One slot 0900-2200 local.
- Unrestricted Parking.
- City 60 mins away





-
-
- ZSPD ▾
- REF
- STAR
- APP
- TAXI**
- SID
- Wx

Remote Parking spots Z40-Z51



Source: Jeppesen

Shanghai Hongqiao ZSSS

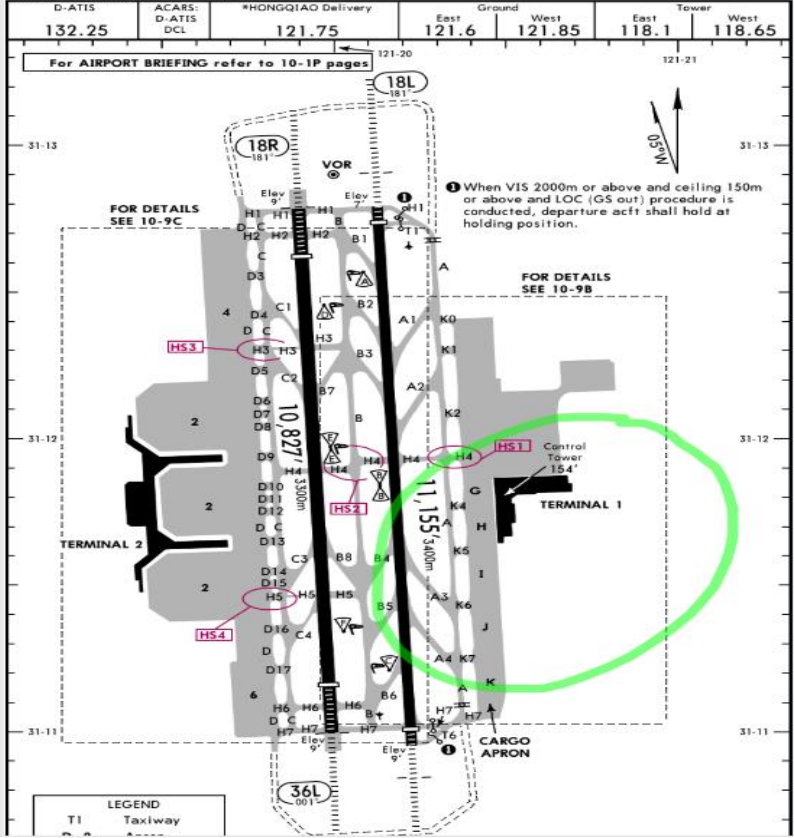
- Less busy, but harder to get permit.
- Parking spots, east side by FBO
- GA Departure curfew 0700-0900 local.
- One slot 0900-2200 local.
- Parking max three days.
- Closer to city, 30 minutes
- Site of ABACE April 12-14th



Airport



ZSSS/SHA ZSPD ZBAA SHANGHAI, PR OF CHINA
 Apt Elev 10' 30 OCT 15 (10-9)
 NS1 11.8 E121 20.1 Eff 11 Nov 1400Z



-
- ZSSS ▾
- REF
- STAR
- APP
- TAXI**
- SID
- Wx



Source: Jeppesen

Hong Kong VHHH

- **Special Administrative Region of the People's Republic of China**
- **Normally drop off or 24 hour parking**
- **Position to Macau or Clark**
- **Requires special insurance.**
- **PPR and Landing/ Departure slots. Cancel unwanted slots.**

Airport

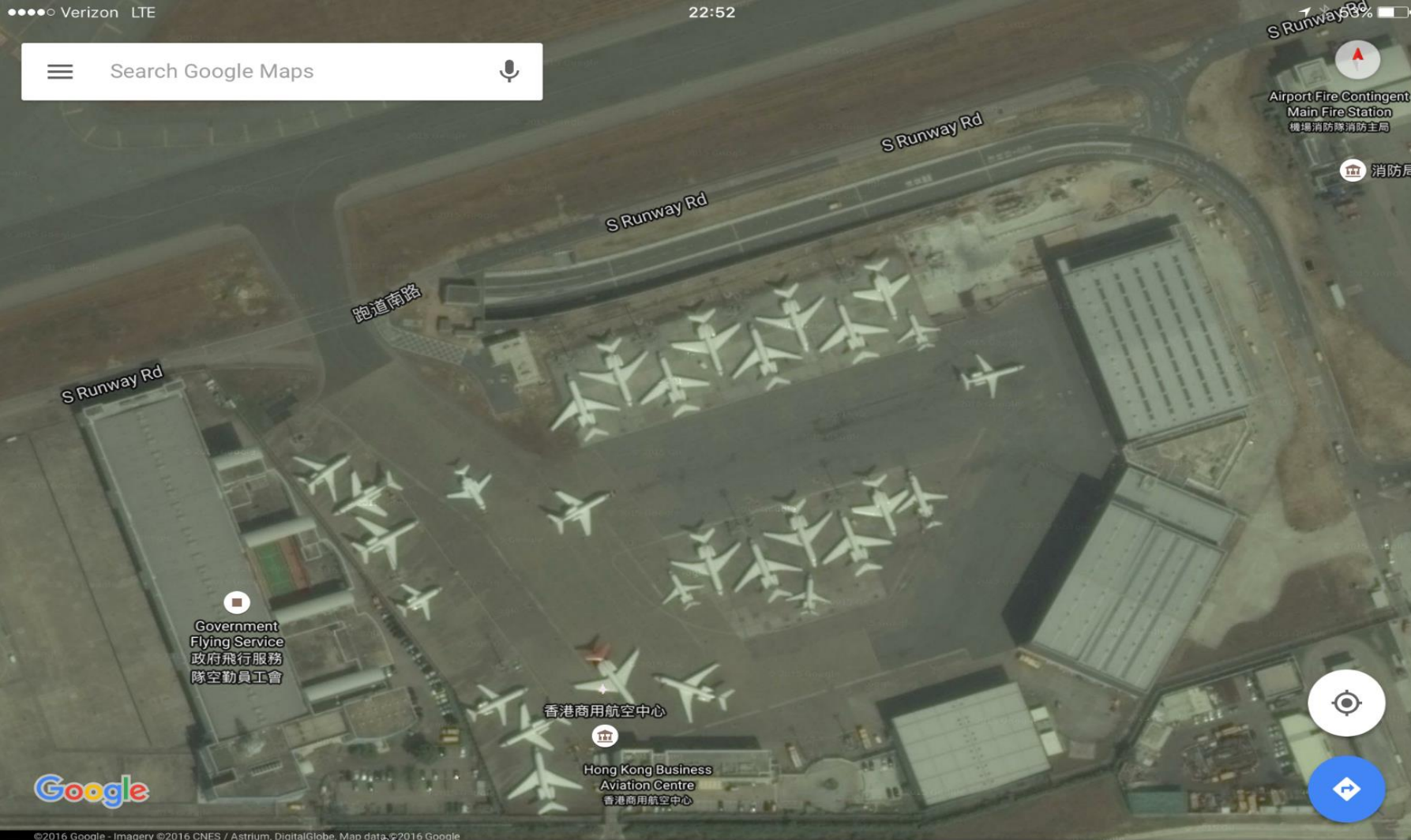
ZSPD ZBAA

- VHHH ▾
- REF
- STAR
- APP
- TAXI**
- SID
- Wx



- 🗑️
- ↶
- ✍️
- 🔄

☰ Search Google Maps



Airport Fire Contingent
Main Fire Station
機場消防隊消防主局

消防局

S Runway Rd

S Runway Rd

S Runway Rd

跑道南路

Government
Flying Service
政府飛行服務
隊空勤員工會

香港商用航空中心

Hong Kong Business
Aviation Centre
香港商用航空中心



VHHH/HKG
HONG KONG INTL

JEPPESSEN HO
10:30 EDT 12 NOV

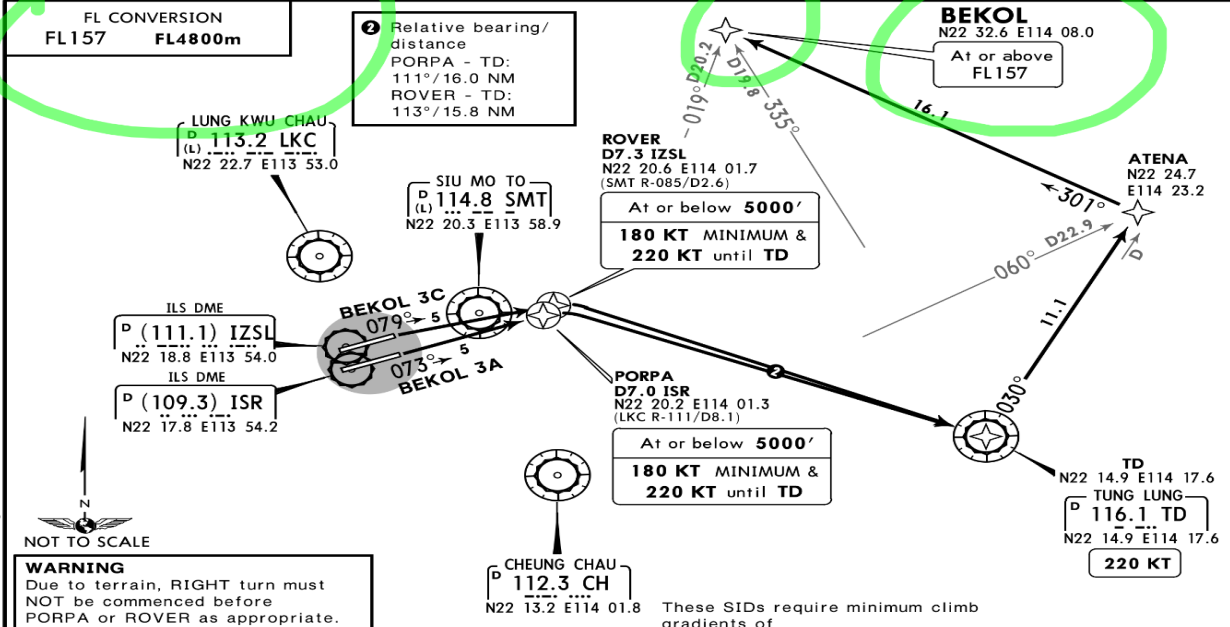
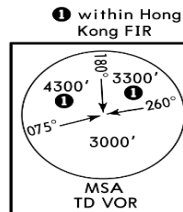
Trans alt: 9000'

HONG KONG
Departure
123.8

Apr Elev
28'

- Trans level: FL110 980 hPa or above
FL120 979 hPa or below
1. RNAV (GNSS) required.
 2. ACFT must be approved with ICAO RNP 1 standard or equivalent.
 3. On first contact with HONG KONG Departure state call sign, current and cleared altitude.
 4. If PBN ceases to comply with RNP 1 while airborne, notify ATS as soon as possible, assistance will be provided as necessary.
 5. If unable to follow SID track, advise ATC and request assistance.

BEKOL 3A [BEK03A], BEKOL 3C [BEK03C]
RWYS 07R/L RNAV (RNP1) DEPARTURES
IF UNABLE TO CROSS BEKOL AT OR ABOVE FL157
ADVISE ATC PRIOR TO DEPARTURE
SPEED MAX 250 KT BELOW 10000'
UNLESS OTHERWISE INSTRUCTED



These SIDs require minimum climb gradients of

BEKOL 3A: 298' per NM (4.9%) until leaving 1400'.

BEKOL 3C: 249' per NM (4.1%) until leaving 1400'.

Gnd speed-KT	75	100	150	200	250	300
298' per NM	372	496	744	992	1241	1489
249' per NM	311	415	623	830	1038	1246

Initial climb clearance **5000'**,
EXPECT further climb when instructed by ATC

SID	RWY	ROUTING
BEKOL 3A	07R	PORPA (5000'-; K180+) - TD (K220) - ATENA - BEKOL (FL157+).
BEKOL 3C	07L	DER - ROVER (5000'-; K180+) - TD (K220) - ATENA - BEKOL (FL157+).

CHANGES: General notes.

VHHH ▾

REF

STAR

APP

TAXI

SID

Wx

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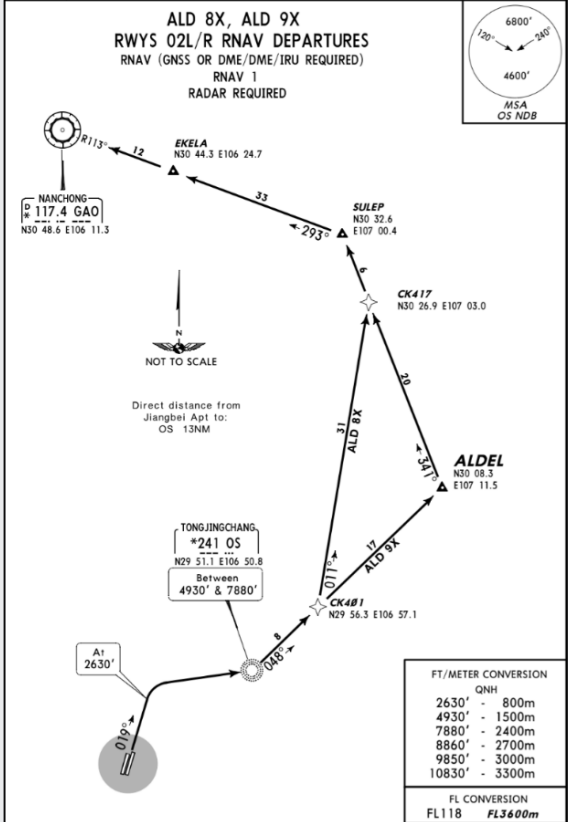
Let's go flying

Example Flight: ZUCK-ZBAA



Source: China eAIP

Apt Elev 1365' Trans level: FL118 Trans alt: 9850' 10830' 1031 hPa or above
Do not turn before DER. 8860' 979 hPa or less



FT./METER CONVERSION	
QNH	
2630' -	800m
4930' -	1500m
7880' -	2400m
8860' -	2700m
9850' -	3000m
10830' -	3300m

FL CONVERSION	
FL 118	FL3600m

SID	ROUTING
ALD 8X	(2630' - OS (4930' - 7880' -) - CK401 - CK417.
ALD 9X	(2630' - OS (4930' - 7880' -) - ALDEL - CK417.

CHANGES: EKELA established. © JEPPESEN, 2013, 2014. ALL RIGHTS RESERVED.

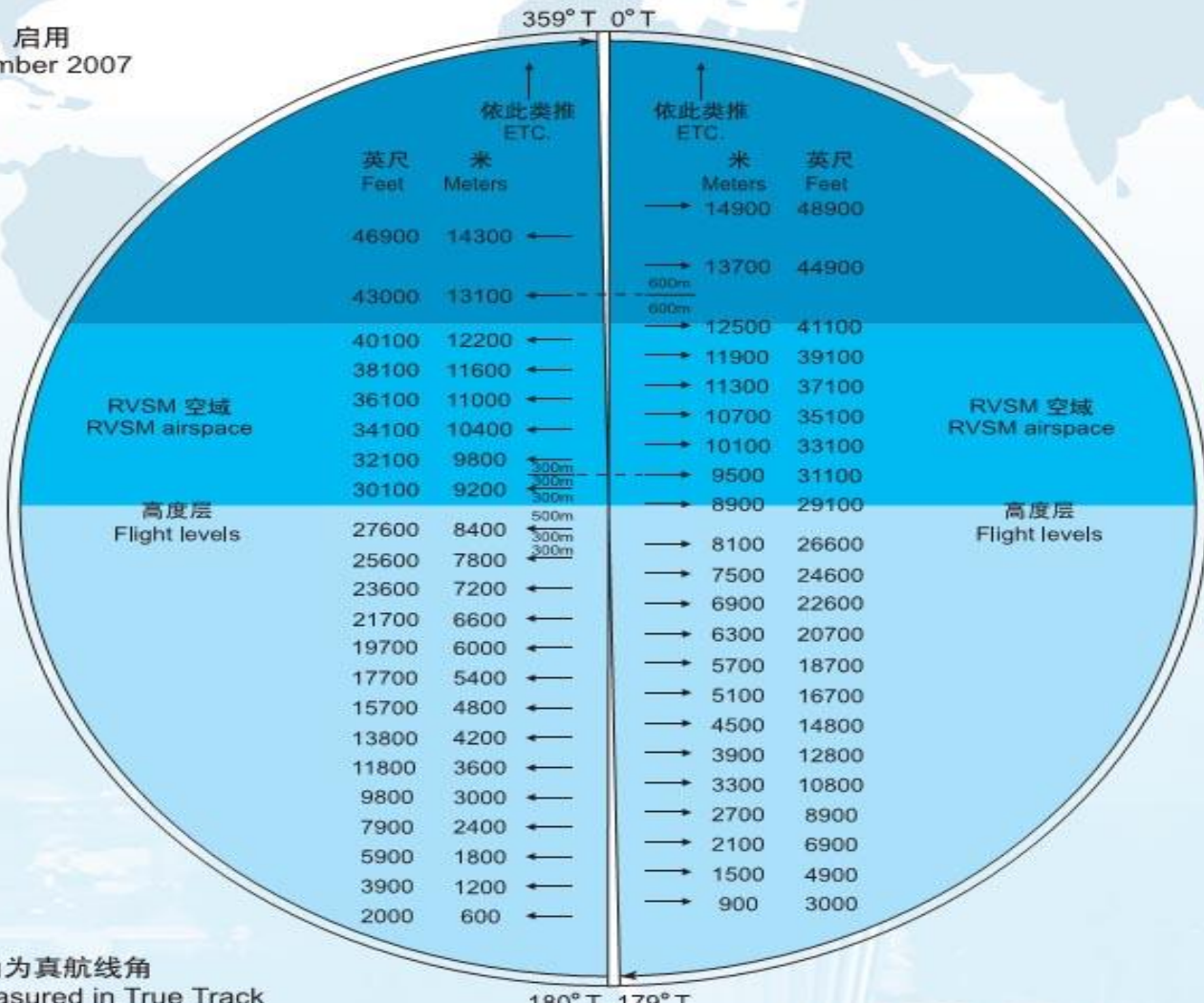
- ZUCK ▼
- REF
- STAR
- APP
- TAXI
- SID**
- Wx

Source: Jeppesen

2007年11月21日16时 (UTC) 启用
Effective 1600 (UTC) 21st November 2007

RVSM 8900m (FL291) – 12500m (FL411)

注：管制员将发布米制飞行高度层指令。航空器驾驶员应当根据中国民航飞行高度层配备标准示意图（表）来确定对应的英制飞行高度层。航空器应当飞对应的英制飞行高度层。航空器驾驶员应当知晓公英制转换带来的差异，驾驶舱仪表显示的米制高度与管制指令的米制高度不一定完全一致，但存在的差异不会超过30米。



Source: China eAIP

航线角为真航线角

Angles are measured in True Track

Operations RVSM

- Chinese ATC will issue Flight Level clearance in **meters**, the aircraft shall be flown using the flight level in **feet**
- Rounding differences, the metric readout of the onboard avionics will not necessarily correspond to the cleared Flight Level in meters; however the difference will never be more than 30 meters.
- Aircraft equipped with **metric and feet** altimeters shall use the **feet** altimeter within RVSM airspace
- Leaving Chinese RVSM you generally descend 100' to conform to new level assigned at the respective FIR. Mongolia RVSM same as Chinese RVSM

Operations RVSM

180-359			000-179		
Flight Levels			Flight Levels		
m	ft	FL	m	ft	FL
ETC	ETC	ETC	ETC	ETC	ETC
15500	50900	FL509	14900	48900	FL489
14300	46900	FL469	13700	44900	FL449
13100	43000	FL430	12500	41100	FL441
12200	40100	FL401	11900	39100	FL391
11600	38100	FL381	11300	37100	FL371
11000	36100	FL361	10700	35100	FL351
10400	34100	FL341	10100	33100	FL331
9800	32100	FL321	9500	31100	FL311
9200	30100	FL301	8900	29100	FL291
8400	27600	FL276	8100	26600	FL266
7800	25600	FL256	7500	24600	FL246
7200	23600	FL236	6900	22600	FL226
6600	21700	FL217	6300	20700	FL207
6000	19700	FL197	5700	18700	FL187
5400	17700	FL177	5100	16700	FL167
4800	15700	FL157	4500	14800	FL148
4200	13800	FL138	3900	12800	FL128
3600	11800	FL118	3300	10800	FL108
3000	9800	FL98	2700	8900	FL89
2400	7900	FL79	2100	6900	FL69
1800	5900	FL59	1500	4900	FL49
1200	3900	FL39	900	3000	FL30
600	2000	FL20			



Sources: Jeppesen, China eAIP, IFALPA

Offsets

- Commonly used for separation and weather
- Non Standard, could be Left or Right of course
- i.e 6 nm Right
- Could be issued on SID or STAR
- Adjusted Vertical Rates

ZBAA/PEK
CAPITAL

15 AUG 14
10.25 Eff 20 Aug 1600Z
JEPPESSEN BEIJING, P

D-ATIS
127.6

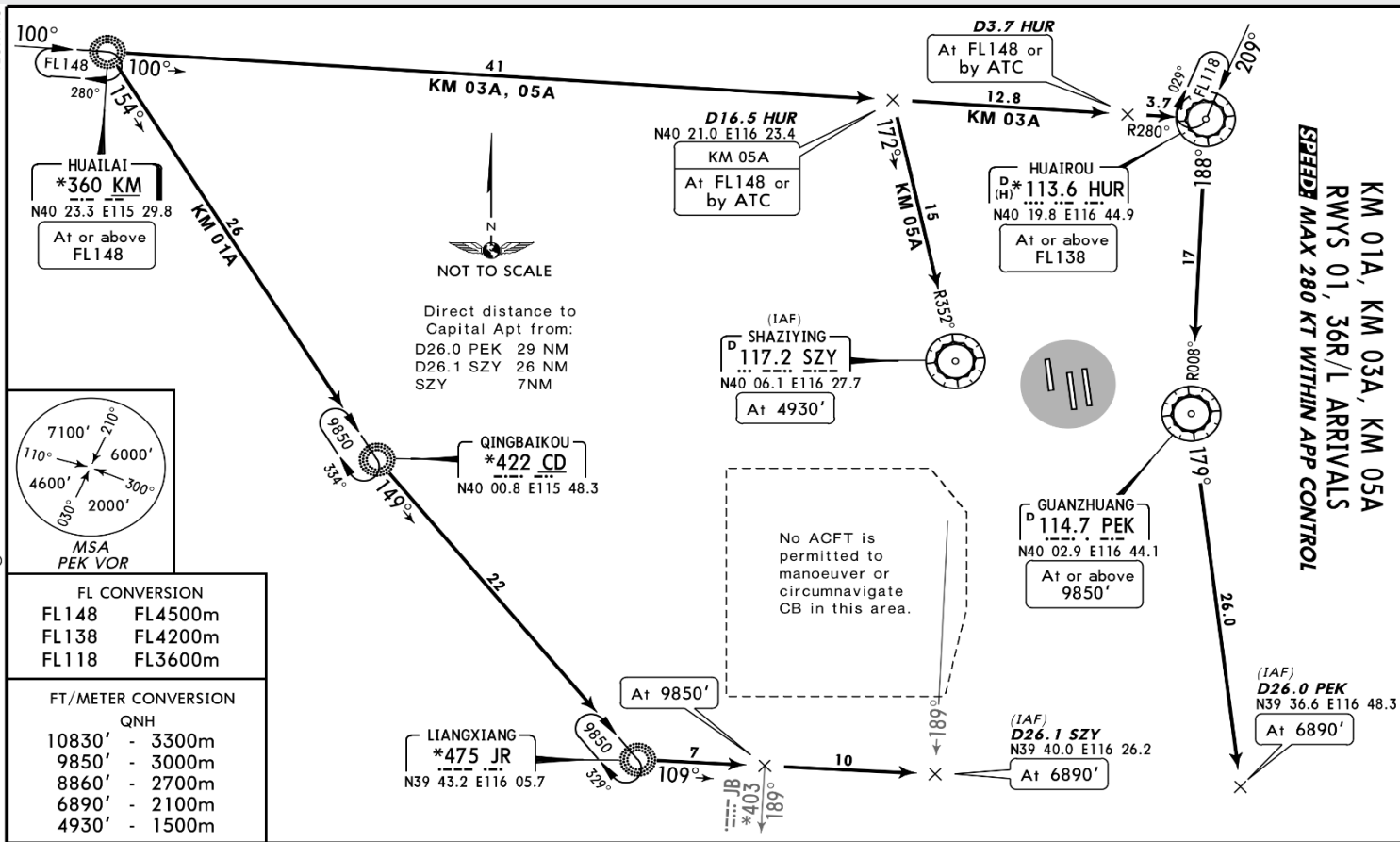
Apt Elev
115'

Alt Set: hPa
Trans level: FL118

Trans alt: 9850'

10830' 1031 hPa or above
8860' 979 hPa or below

KM 01A, KM 03A, KM 05A
RWYS 01, 36R/L ARRIVALS
SPEED MAX 280 KT WITHIN APP CONTROL



CHANGES: Communication:

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ZBAA ▼

REF

STAR

APP

TAXI

SID

Wx

Safety and Security

- **Pollution**
- **Currently no significant security issues**
- **China has generally low crime rates**
- **Excellent Hotels**



DEDICATED TO HELPING BUSINESS ACHIEVE ITS HIGHEST GOALS.



**Please use the NBAA International
Feedback database**

QUESTIONS?

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