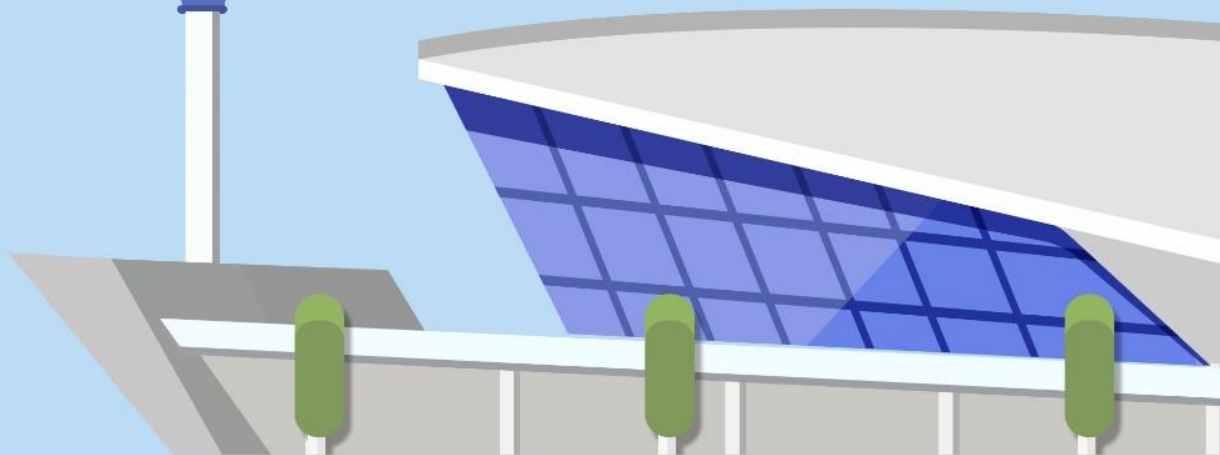


February 2019

Airports On-time Departure Performance Report



VariFlight®

Airport On-Time Departure Performance (Feb 2019, by VariFlight) ***SHA becomes the Most Punctual Major Airport in Mainland China***

Powered by VariFlight incomparable aviation database, the monthly report of *Airport On-time Departure Performance* provides an overview of how global airports perform in February, 2019.

In February, New Chitose (CTS) tops the OTP chart of global large airports. In mainland China, airports handle 380,700 flight departures with YoY growth of 5.68 percent.

- Japan dominates TOP4 OTP list of global large airports.
- In February, Shanghai Hongqiao (SHA) becomes the most punctual Chinese major airport in APAC and hits the top among airports with a capacity over 30 million passengers in mainland China.
- Dalian Zhoushuizi (DLC) ranks first among airports with a capacity of 10 to 30 million passengers in mainland China for its on-time departure performance.
- Nanjing Lukou (NKG) suffers the most from severe weather in February, being affected by 97 hours.

Global Hubs

CTS tops global hubs

In February, Japan dominates TOP4 OTP list of global large airports. New Chitose (CTS), moving up six places compared to January, leads among global TOP10 hubs with an on-time departure rate of 91.59 percent and an average departure delay of 9.83 minutes, followed by Haneda (HND) and Osaka (KIX) in the second and third places. No airports in mainland China make the list.

Ranking	IATA Code	Airports	Country/Region	Flight Departures	On-time Departure Performance	Average Departure Delay (minutes)
1	CTS	New Chitose	JP	6495	91.59%	9.83
2	HND	Haneda	JP	19232	89.08%	18.59
3	KIX	Osaka	JP	7269	88.59%	16.32
4	FUK	Fukuoka	JP	7462	88.58%	17.33
5	JNB	OR Tambo	ZA	7719	87.89%	18.13
6	VIE	Vienna	AT	8352	87.04%	18.41
7	BNE	Brisbane	AU	7388	86.53%	18.55
8	CPH	Copenhagen	DK	9372	86.49%	19.07
9	DUS	Düsseldorf	DE	7460	84.61%	20.95
10	AKL	Auckland	NZ	6953	84.15%	19.91

Source: VariFlight

Figure 1: World's TOP10 best airports for on-time departures (Large airports, Feb, 2019)

Global Medium-Sized Airports

KOJ tops the OTP chart of medium-sized airports

Among the TOP10 global medium-sized airports, Itami (ITM) ranks first with an on-time rate of 95.75 percent and an average departure delay of 11.50 minutes, followed by Sendai (SDJ) and Mohammed V (CMN) in the second and third places. No airports in mainland China make the list.

Ranking	IATA Code	Airports	Country/Region	Flight Departures	On-time Departure Performance	Average Departure Delay (minutes)
1	ITM	Itami	JP	5367	95.75%	11.50
2	SDJ	Sendai	JP	2006	95.31%	11.34
3	CMN	Mohammed V	MA	2916	94.96%	7.29
4	KOJ	Kagoshima	JP	2811	94.59%	12.72
5	NGO	Nagoya	JP	4254	93.31%	14.04
6	KHH	Kaohsiung	TW, CN	2266	92.18%	13.05
7	LIN	Milan Linate	IT	3570	92.17%	12.61
8	CPT	Cape Town	ZA	3423	91.69%	14.23
9	ADB	Izmir Adnan Menderes	TR	2719	91.07%	11.96
10	TSA	Taipei Songshan	TW, CN	2052	91.00%	16.60

Source: VariFlight

Figure 2: World's TOP10 best airports for on-time departures (Medium-sized airports, Feb, 2019)

APAC Major Airports

SHA ranks first among Chinese Large Hubs

In February, New Chitose (CTS) ranks first of the TOP20 list. In mainland China, six Chinese airports join the list, among which Shanghai Hongqiao (SHA) is the most punctual major airport ranking in the eighth, followed by Chengdu Shuangliu (CTU).

Ranking	IATA Code	Airports	Country / Region	Flight Departures	On-time Departure Performance	Average Departure Delay (minutes)
1	CTS	New Chitose	JP	6495	91.59%	9.83
2	HND	Haneda	JP	19232	89.08%	18.59
3	KIX	Osaka	JP	7269	88.59%	16.32
4	FUK	Fukuoka	JP	7462	88.58%	17.33
5	BNE	Brisbane	AU	7388	86.53%	18.55
6	AKL	Auckland	NZ	6953	84.15%	19.91

7	SUB	Banda Udara	ID	6384	83.80%	19.85
8	SHA	Shanghai Hongqiao	CN	10473	82.04%	21.83
9	CTU	Chengdu Shuangliu	CN	14281	81.99%	24.67
10	DPS	Ngurah Rai	ID	6074	81.81%	20.96
11	URC	Urumqi Diwopu	CN	6703	81.54%	27.93
12	CKG	Chongqing Jiangbei	CN	12674	81.42%	23.12
13	CGK	Soekarno–Hatta	ID	17142	81.40%	22.37
14	SIN	Singapore Changi	SG	15452	80.44%	23.29
15	MEL	Melbourne Tullamarine	AU	9263	80.26%	22.09
16	XIY	Xi'an Xianyang	CN	13016	79.77%	27.75
17	CAN	Guangzhou Baiyun	CN	18291	79.49%	26.10
18	CJU	Jeju	KR	6452	78.87%	23.24
19	SYD	Sydney Kingsford Smith	AU	12357	78.35%	24.60
20	KUL	Kuala Lumpur	MY	16583	77.74%	23.90

Source: VariFlight

Figure 3: TOP20 best airports in APAC for on-time departures (Major airports, Feb, 2019)

APAC Medium-Sized Airports

DLC cuts a figure in APAC OTP chart

In February, Itami (ITM) ranks first of the TOP20 list with an on-time departure rate of 95.75 percent. In mainland China, Dalian Zhoushuizi (DLC) tops the four Chinese medium-sized airports in the APAC list with OTP of 86.21 percent and an average departure delay of 17.05 minutes.

Ranking	IATA Code	Airports	Country / Region	Flight Departures	On-time Departure Performance	Average Departure Delay (minutes)
1	ITM	Itami	JP	5367	95.75%	11.50
2	SDJ	Sendai	JP	2006	95.31%	11.34
3	KOJ	Kagoshima	JP	2811	94.59%	12.72
4	NGO	Nagoya	JP	4254	93.31%	14.04
5	KHH	Kaohsiung	TW, CN	2266	92.18%	13.05
6	TSA	Taipei Songshan	TW, CN	2052	91.00%	16.60
7	ADL	Adelaide	AU	3056	90.60%	13.91
8	PER	Perth	AU	3836	90.53%	15.64
9	PNH	Pochentong	KH	2146	90.39%	11.40
10	WLG	Wellington	NZ	3323	90.35%	13.93
11	CHC	Christchurch	NZ	3026	90.24%	14.05
12	PUS	Busan	KR	4487	88.16%	16.31
13	BKI	Sabah	MY	2962	86.25%	17.16
14	DLC	Dalian Zhoushuizi	CN	5452	86.21%	17.05

15	KCH	Kuching	MY	2051	85.97%	16.18
16	LJG	Lijiang Sanyi	CN	2169	85.39%	19.11
17	PEN	Penang	MY	2589	85.22%	16.18
18	TNA	Jinan Yaoqiang	CN	4872	84.68%	19.71
19	INC	Yinchuan Hedong	CN	2902	84.42%	18.02
20	GMP	Gimpo	KR	5333	83.47%	20.90

Source: VariFlight

Figure 4: TOP20 best airports in Asia-Pacific for on-time departures (Medium-sized airports, Feb, 2019)

Airports with a Capacity over 30 Million Passengers

SHA tops the list and KMG shows the most rapid growth

Regarding airports with a capacity over 30 million passengers, Shanghai Hongqiao (SHA) surpasses Chengdu Shuangliu (CTU) to top the OTP list with an on-time performance of 82.04 percent (increasing 0.34 percent YoY), followed by Chengdu Shuangliu (CTU) and Chongqing Jiangbei (CKG). Kunming Changshui (KMG) shows the most rapid growth of 10.38 percent compared with the same period last year, followed by Chengdu Shuangliu (CTU) and Guangzhou Baiyun (CAN) with respectively 6.53 percent and 5.37 percent.

Ranking	IATA Code	Airports	Flight Departures	On-time Departure Performance	YoY	Average Departure Delay (minutes)
1	SHA	Shanghai Hongqiao	10473	82.04%	0.34%	21.83
2	CTU	Chengdu Shuangliu	14281	81.99%	6.53%	24.67
3	CKG	Chongqing Jiangbei	12674	81.42%	0.50%	23.12
4	XIY	Xi'an Xianyang	13016	79.77%	-4.25%	27.75
5	CAN	Guangzhou Baiyun	18291	79.49%	5.37%	26.10
6	PVG	Shanghai Pudong	18545	76.01%	-2.93%	25.77
7	SZX	Shenzhen Bao'an	13886	74.63%	-4.02%	30.53
8	PEK	Beijing Capital	22647	72.78%	0.03%	28.18
9	KMG	Kunming Changshui	14567	72.30%	10.38%	30.92
10	HGH	Hangzhou Xiaoshan	10611	65.84%	-1.27%	35.33

Source: VariFlight

Figure 5: China's airports on-time departure performance (airports with a capacity over 30 million passengers, Feb, 2019)

Mainland China: Airports with a Capacity of 10 Million to 30 Million Passengers

DLC tops the list and NNG shows the most rapid growth

Among the airports with a capacity of 10 million to 30 million passengers in mainland China, Dalian Zhoushuizi (DLC) ranks first with an on-time departure performance of 86.21 percent (increasing 6.19 percent YoY), followed by Jinan Yaoqiang (TNA) and Lanzhou Zhongchuan (LHW). Compared with the same period last year, Nanning

Wuxu (NNG) enjoys the most rapid YoY growth of 18.43 percent, followed by Fuzhou Changle (FOC) and Nanchang Changbei (KHN) with respectively 8.71 percent and 8.24 percent.

Ranking	IATA Code	Airports	Flight Departures	On-time Departure Performance	YoY	Average Departure Delay (minutes)
1	DLC	Dalian Zhoushuizi	5452	86.21%	6.19%	17.05
2	TNA	Jinan Yaoqiang	4872	84.68%	6.39%	19.71
3	LHW	Lanzhou Zhongchuan	4410	81.79%	8.20%	20.34
4	URC	Urumqi Diwopu	6703	81.54%	-0.67%	27.93
5	HRB	Harbin Taiping	5972	77.68%	-0.89%	26.56
6	HET	Hohhot Baita	3788	77.57%	4.44%	28.46
7	CGQ	Changchun Longjia	3872	76.41%	4.66%	26.55
8	TYN	Taiyuan Wusu	4678	75.79%	-2.12%	25.59
9	WUH	Wuhan Tianhe	8324	75.76%	2.21%	25.74
10	TAO	Qingdao Liuting	6829	75.12%	-0.35%	24.04
11	CSX	Changsha Huanghua	7588	74.76%	0.19%	30.31
12	ZUH	Zhuhai Jinwan	3463	73.97%	-0.03%	27.89
13	SHE	Shenyang Taoxian	5658	72.56%	1.06%	29.41
14	NNG	Nanning Wuxu	4542	71.96%	18.43%	32.37
15	TSN	Tianjin Binhai	6935	71.93%	0.87%	29.80
16	SJW	Shijiazhuang Zhengding	3629	70.85%	-3.39%	33.09
17	KWE	Guiyang Longdongbao	6528	70.72%	3.47%	32.61
18	CGO	Zhengzhou Xinzheng	8417	69.68%	-3.69%	44.84
19	KHN	Nanchang Changbei	4606	69.15%	8.24%	30.23
20	FOC	Fuzhou Changle	4482	67.72%	8.71%	34.98
21	NGB	Ningbo Lishe	3755	66.67%	0.33%	32.17
22	SYX	Sanya Phoenix	5494	65.60%	-3.25%	39.03
23	HAK	Haikou Meilan	7522	62.85%	-4.47%	40.28
24	HFE	Hefei Xinqiao	4162	62.15%	0.56%	41.00
25	NKG	Nanjing Lukou	8450	58.24%	-10.16%	55.42
26	WNZ	Wenzhou Longwan	4080	56.11%	-3.74%	37.76
27	XMN	Xiamen Gaoqi	7575	54.19%	-0.39%	43.54

Source: VariFlight

Figure 6: China's airports on-time departure performance (airports with a capacity of 10 million to 30 million passengers, Feb, 2019)

Mainland China: Airports with a Capacity of 2 Million to 10 Million Passengers

HLD tops the OTP chart and JHG shows the most rapid growth

Regarding airports with a capacity of 2 million to 10 million passengers, Hulun Buir

Dongshan (HLD) ranks first with an on-time performance of 91.98 percent. Compared with the same period last year, Xishuangbanna (JHG) enjoys the most rapid YoY growth of 12.59 percent, followed by Lhasa Kongga (LXA) and Jieyang Chaoshan (SWA) with respectively 12.20 percent and 8.84 percent.

Ranking	IATA Code	Airports	Flight Departures	On-time Departure Performance	YoY	Average Departure Delay (minutes)
1	HLD	Hulun Buir Dongshan	537	91.98%	5.77%	13.31
2	KHG	Kashgar	761	88.83%	2.32%	14.76
3	UYN	yulin yuyang	829	88.18%	-6.65%	15.19
4	XNN	Xining Caojiapu	1611	86.45%	1.78%	18.19
5	LJG	Lijiang Sanyi	2169	85.39%	5.80%	19.11
6	DYG	Zhangjiajie Hehua	575	85.22%	-0.92%	16.71
7	INC	Yinchuan Hedong	2902	84.42%	-1.70%	18.02
8	DSN	Ordos	792	80.91%	-1.46%	24.16
9	JHG	Xishuangbanna	1692	80.89%	12.59%	18.75
10	LXA	Lhasa Kongga	1315	79.39%	12.20%	25.79
11	ZHA	ZhanJiang	1128	78.90%	6.61%	25.47
12	KWL	Guilin Liangjiang	2375	78.14%	1.91%	25.25
13	WEH	WeiHai	971	73.84%	-0.74%	26.59
14	BAV	Baotou	858	73.54%	-7.21%	29.28
15	LYI	LinYi	776	71.45%	-6.90%	26.92
16	ZYI	Zunyi Xinzhou	784	69.90%	0.94%	32.84
17	BHY	BeiHai	1096	68.25%	-3.64%	31.95
18	YIH	Yichang Sanxia	1203	68.00%	2.12%	31.91
19	SWA	Jieyang Chaoshan	2382	66.44%	8.84%	31.47
20	NAY	Beijing Nanyuan	1817	66.10%	-11.57%	42.68
21	YNT	Yantai Penglai	3203	65.97%	1.95%	30.54
22	YCU	YunCheng	823	62.70%	-11.84%	32.88
23	XUZ	XuZhou	991	59.74%	-4.22%	41.37
24	YTY	Yangzhou Taizhou	775	59.27%	-4.27%	41.47
25	MIG	Mianyang Nanjiao	1164	59.02%	-9.69%	38.45
26	NTG	Nantong Xingdong	992	56.96%	0.13%	38.93
27	JJN	Quanzhou Jinjiang	2555	56.38%	2.55%	41.58
28	WUX	Sunan Shuofang	2182	52.29%	-9.40%	42.73
29	CZX	ChangZhou	1159	46.63%	-5.20%	49.83

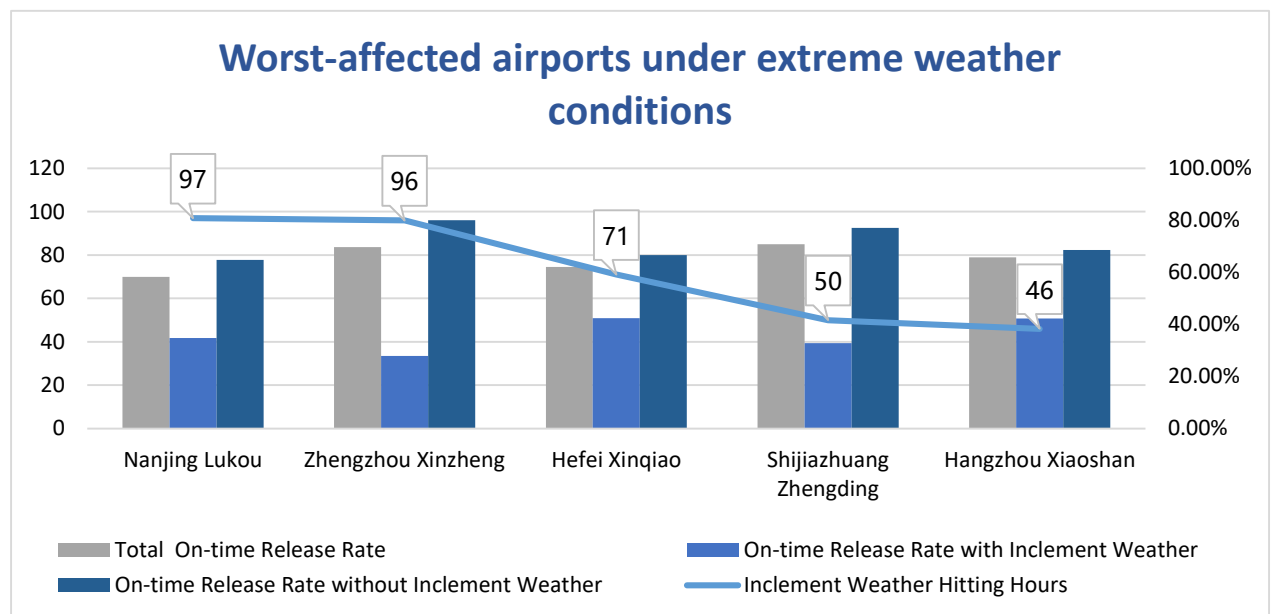
Source: VariFlight

Figure 7: China's airports on-time departure performance (airports with a capacity of 2 million to 10 million passengers, Feb, 2019)

Worst-Affected Airports under Severe Weather

NKG suffers the most from severe weather

In February, Nanjing Lukou (NKG) suffers the most from inclement weather, being affected by 97 hours, while Zhengzhou Xinzheng (CGO) and Hefei Xinqiao (HFE) are disrupted for 96 and 71 hours respectively.



Source: VariFlight

Figure 8: China's worst-affected airports for normal flight release rate (Feb, 2019)

Notes for editors

Period: Feb 1 - Feb 28, 2019

Flights: Commercial air passenger flights only. Cargo aircrafts, corporate jets and general aviation are excluded.

Actual departure flights: Departure flights that have actual take-off time and actual departure time in VariFlight database. Canceled flights are excluded.

Actual arrival flights: Arrival flights that have actual take-off time and actual departure time in VariFlight database. Canceled flights are excluded.

Large airports: Airports with above 6000 actual departure flights monthly.

Medium-sized airports: Airports with 2000 to 6000 actual departure flights monthly.

On-time departure flights: ATD-STD<30mins

On-time arrival flights: ATA-STA<30mins

On-time departure rate: On-time Departure Flights/Actual Departure Flights * 100%

On-time arrival rate: On-time Arrival Flights/Actual Arrival Flights * 100%

Average departure delay time: Total Departure Delay Time/ Actual Departure Flights

(Departure delay time of a single flight: ATD-STD. If a flight departs ahead of the scheduled time of departure, then the result is zero.)

Average arrival delay time: Total Arrival Delay Time/ Actual Arrival Flights

(Arrival delay time of a single flight: ATA-STA. If a flight arrives ahead of the scheduled time of arrival, then the result is zero.)

Airports in Mainland China: Airports in mainland China can be divided into three classes with a capacity of over 30 million passengers, 10 million to 30 million passengers and 2 million to 10 million passengers respectively, in accordance with the passenger throughput published by Civil Aviation Administration of China (CAAC), 2018.