

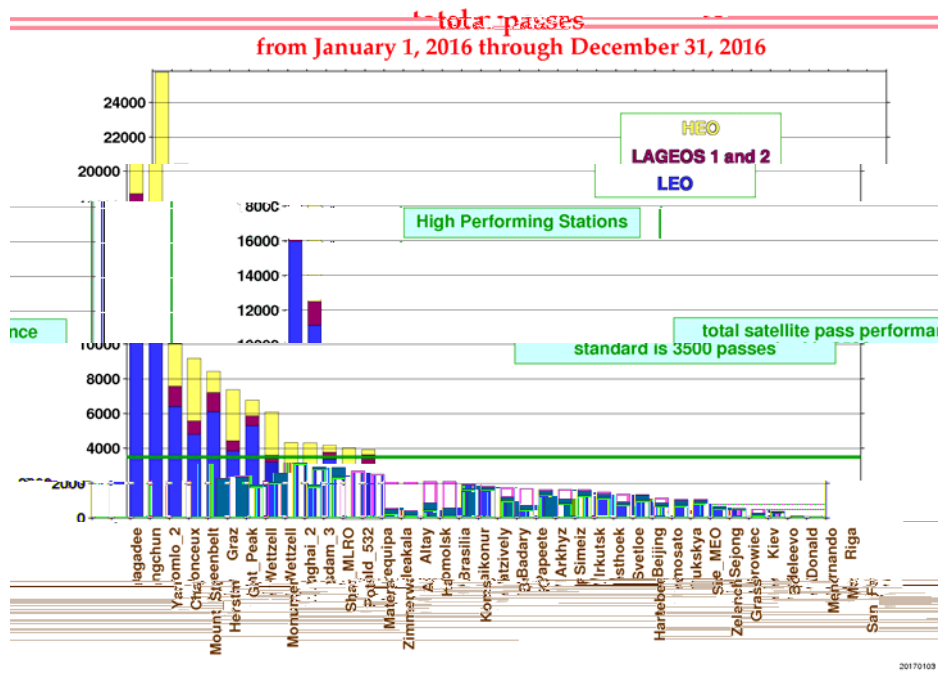
2016

2016

SLR

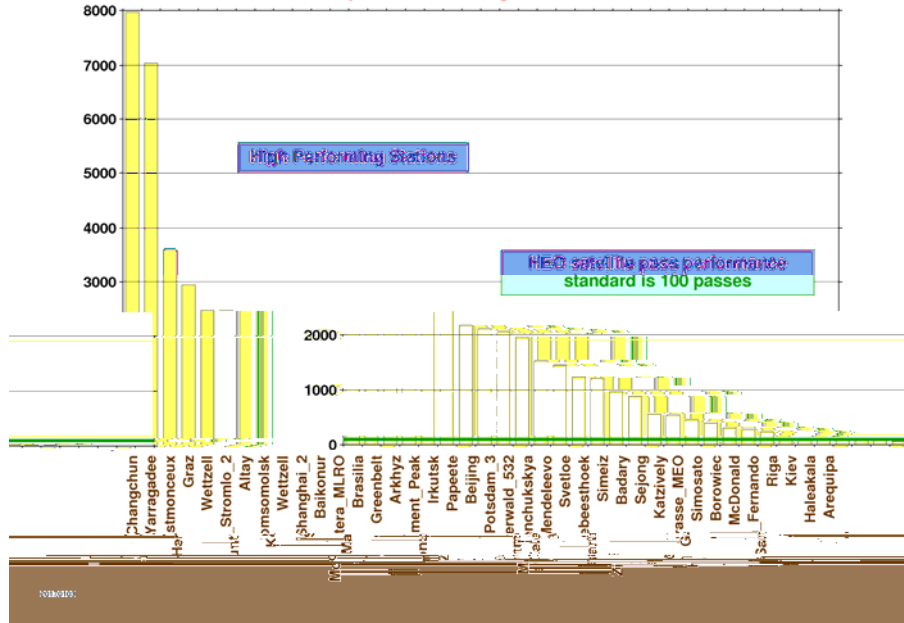
1.1 2016 SLR

2016



1.1.1

HEO passes
from January 1, 2016 through December 31, 2016



1.1.2

2016

KHz

23454

2.8

7525

3749

1035

176

1.1.1 2016

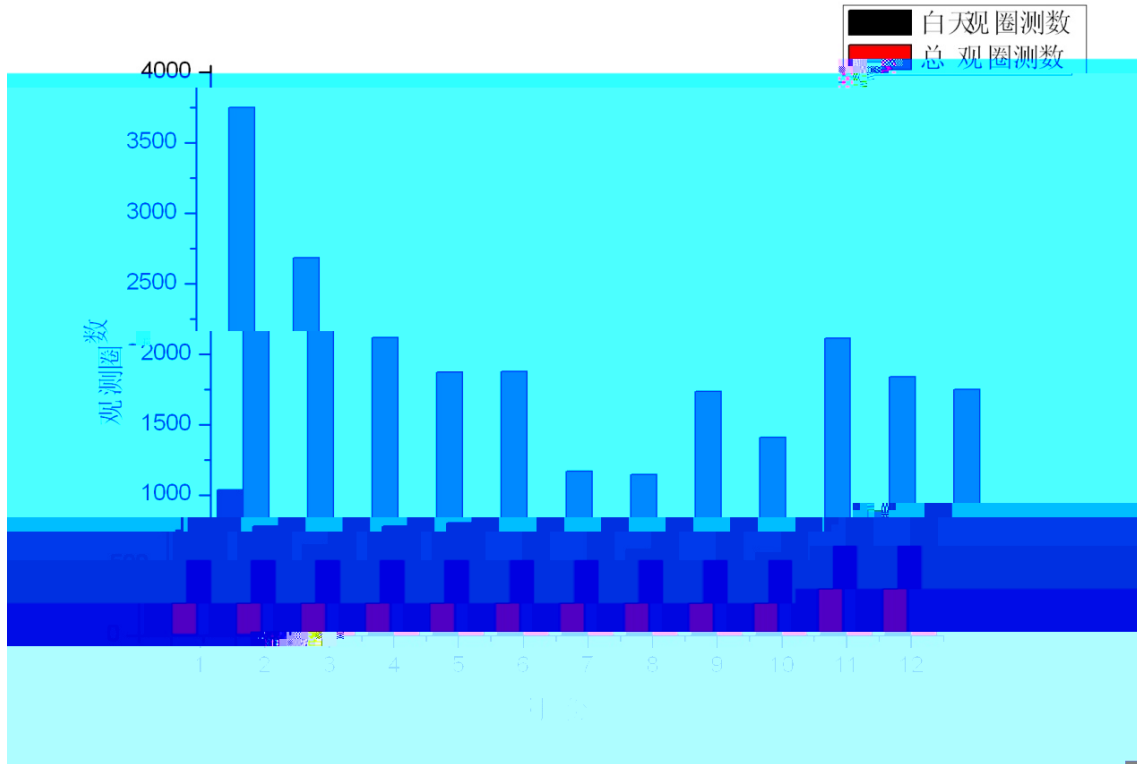
SLR

1.1.1 2016

SLR

1	1035	2714	3749
2	775	1911	2686
3	646	1472	2118
4	778	1095	1873
5	802	1075	1877
6	447	720	1167
7	477	668	1145
8	612	1122	1734
9	472	935	1407
10	585	1526	2111

11	504	1336	1840
12	392	1355	1747
	7525	15929	23454

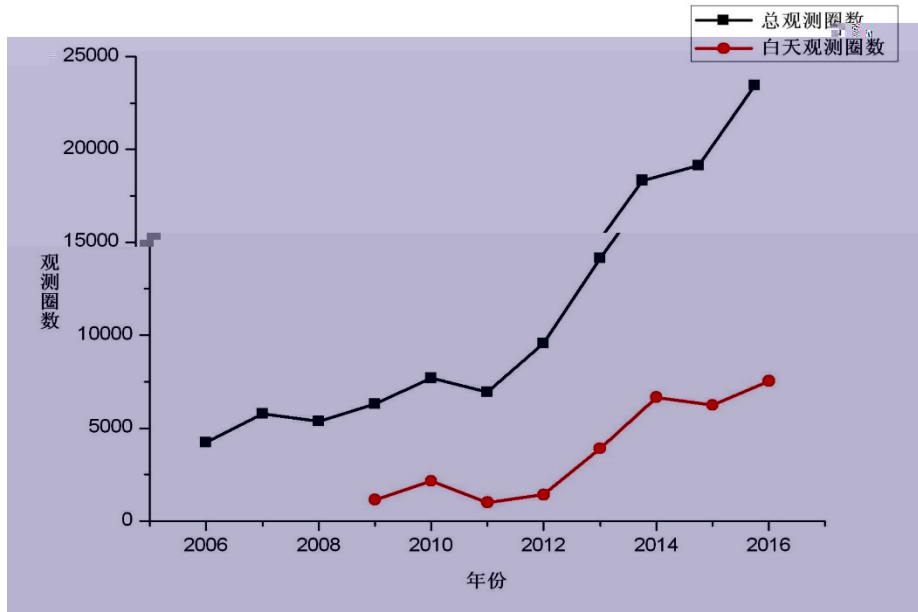


1.1.3 2016 SLR

1.2 2016 SLR

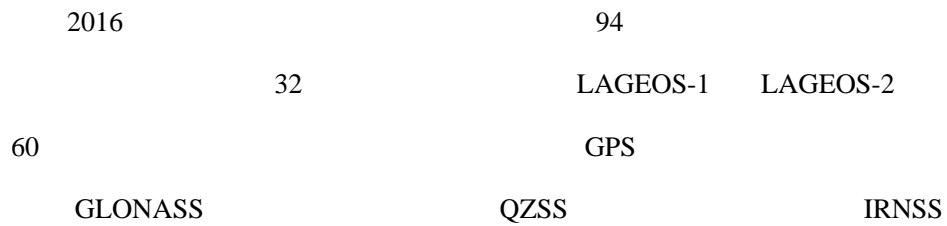
2006 2016

2009



1.2.1 2006 -2016 SLR

1.3



1.3.1 2016

1.	Ajisai	LEO 1500km
2.	Beacon-C	
3.	Cryosat-2	
4.	Envisat	
5.	Grace-A	
6.	Grace-B	
7.	HY-2A	
8.	Jason-2	
9.	Jason-3	
10.	Kompsat-5	
11.	LARES	
12.	LARETS	

13.	OICETS		
14.	Sentinel3A		
15.	Starlette		
16.	Stella		
17.	SARAL		
18.	STSAT2C		
19.	Swarm-A		
20.	Swarm-B		
21.	Swarm-C		
22.	SpinSat		
23.	STPSat2		
24.	Topex		
25.	Tandemx		
26.	Terrasarx		
27.	X1		
28.	X2		
29.	tiangong1		
30.	Tiangong2		
31.	PN-1A		
32.	Z32		
33.	Lageos-1		6000km
34.	Lageos-2		
35.	Etalon-1		19100km
36.	Etalon-2		
37.	Glonass-41		19140km
38.	Glonass-100		
39.	Glonass-101		
40.	Glonass-102		
41.	Glonass-103		
42.	Glonass-105		
43.	Glonass-106		
44.	Glonass-107		
45.	Glonass-109		
46.	Glonass-116		
47.	Glonass-117		
48.	Glonass-118		
49.	Glonass-119		
50.	Glonass-120		
51.	Glonass-121		
52.	Glonass-122		
53.	Glonass-123		
54.	Glonass-124		
55.	Glonass-125		

56.	Glonass-126	
57.	Glonass-127	
58.	Glonass-128	
59.	Glonass-129	
60.	Glonass-131	
61.	Glonass-132	
62.	Glonass-133	
63.	Glonass-134	
64.	Glonass-135	
65.	Glonass-136	
66.	Galileo-101	23220km
67.	Galileo-102	
68.	Galileo-103	
69.	Galileo-104	
70.	Galileo-201	
71.	Galileo-202	
72.	Galileo-203	
73.	Galileo-204	
74.	Galileo-205	
75.	Galileo-206	
76.	Galileo-208	
77.	Galileo-209	
78.	Galileo-210	
79.	Galileo-211	
80.	Compass-G1	21528km-42164km
81.	Compass-is1	
82.	Compass-is2	
83.	Compass-I3	
84.	Compass-I5	
85.	Compass-M3	
86.	CompassI6b	
87.	Compass-ms1	
88.	Compass-ms2	
89.	QZS-1	32000km-40000km
90.	Irns-1a	42164km
91.	Irns-1b	
92.	Irns-1c	
93.	Irns-1d	
94.	Irns-1e	

1.4

1

ESA GREAT Galileo-201
ILRS Space Debris Study Group TOPEX OICETS

2

- “ ”
- “ ”
- “ -2”
- Compass-I6b Compass-G7 Compass-M3S
- Compass-Is1
- -2A PN-1
- G1 I3 I5 I6B IS1 IS2 MS1 MS2 M3

1.4.1 2016

CompassG1	23	452
Compassis1	1	89
Compassis2		74
CompassI3	8	170
CompassI5	10	141
CompassM3	16	128
CompassI6b	5	59
Compassms1	0	82
Compassms2	1	67
HY2A	287	445

X1	5	195
X2		195
Tg1	8	22
Tg2	11	52
Pn1a	18	69
Z32		29

1.5 2016

11

Compass-i6b

IRNSS

IRNSS-1e

Galileo-Galileo-DZ, IRNSS-1e, IRNSS-1e

82.7%

2016 302

25

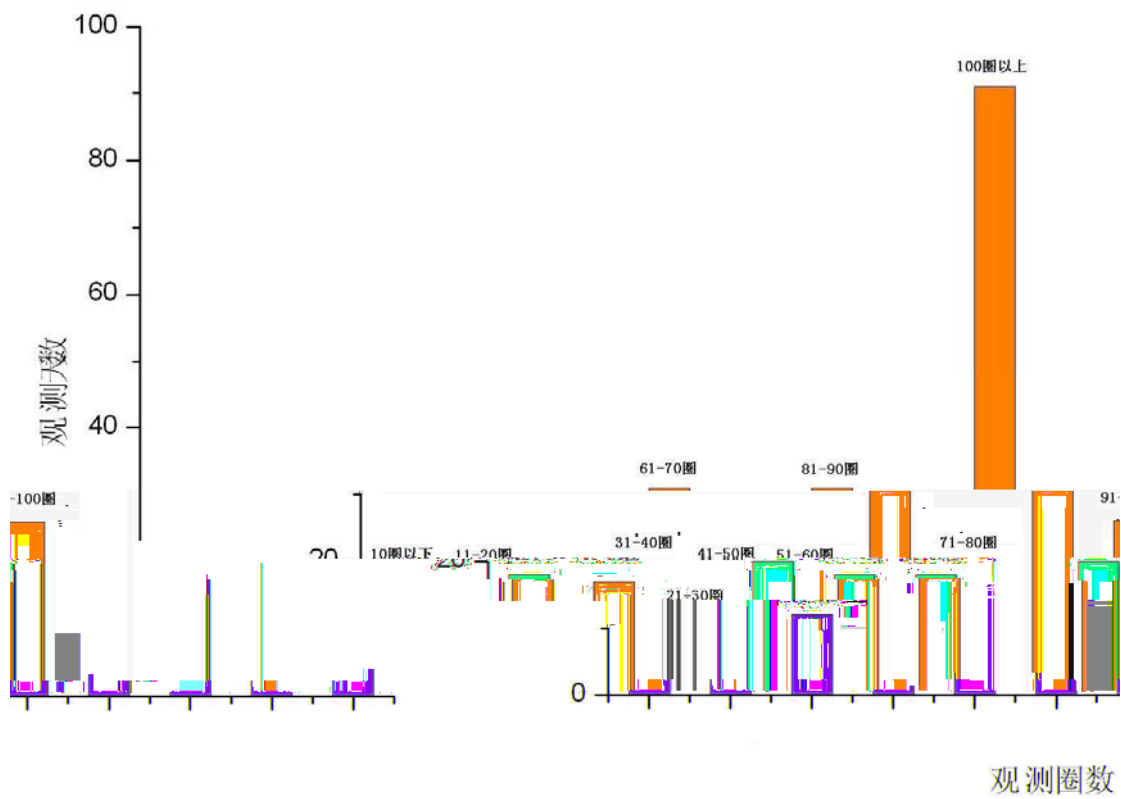
1.6.1 2016

1	31
2	29
3	27
4	24
5	25
6	23
7	22
8	26
9	21
10	29
11	22
12	23
	302

1.6.2. 2016

	2016
1 -10	18
11 -20	17
21 -30	12
31 -40	20
41 -50	18
51 -60	18
61 -70	31

71 -80	20
81 -90	31
91 -100	26
100	91
	308

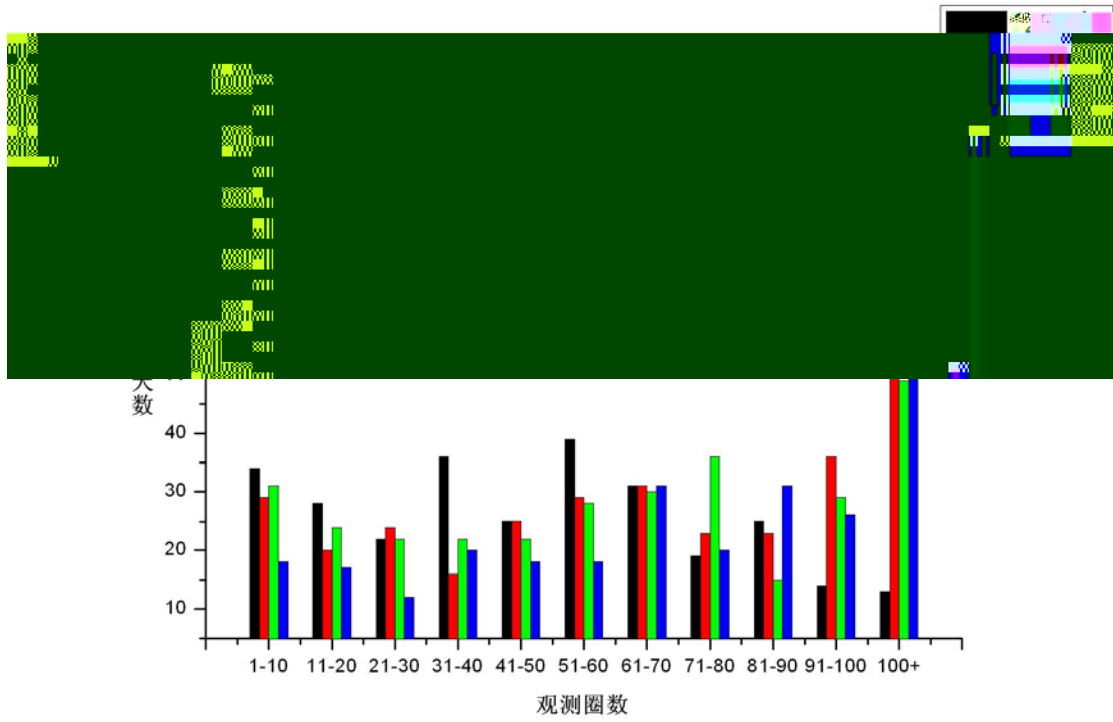


1.6.1 2016

1.6.3.

	2013	2014	2015
1 -10	34	29	31
11 -20	28	20	24
21 -30	22	24	22
31 -40	36	16	22
41 -50	25	25	22

51 -60	39	29	28
61 -70	31	31	30
71 -80	19	23	36
81 -90	25	23	15
91 -100	14	36	29
100	13	51	49
	286	307	308



1.6.2

2

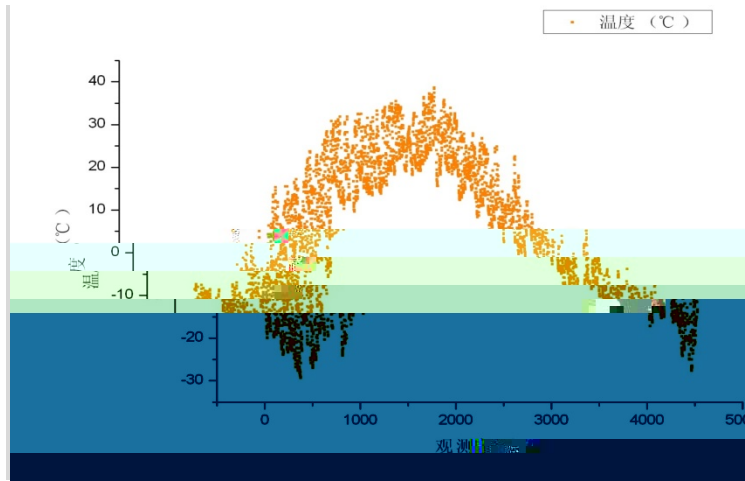
43

274

0

-29.3

38.6



1.6.3 2016

1.7

1 2016 SLR

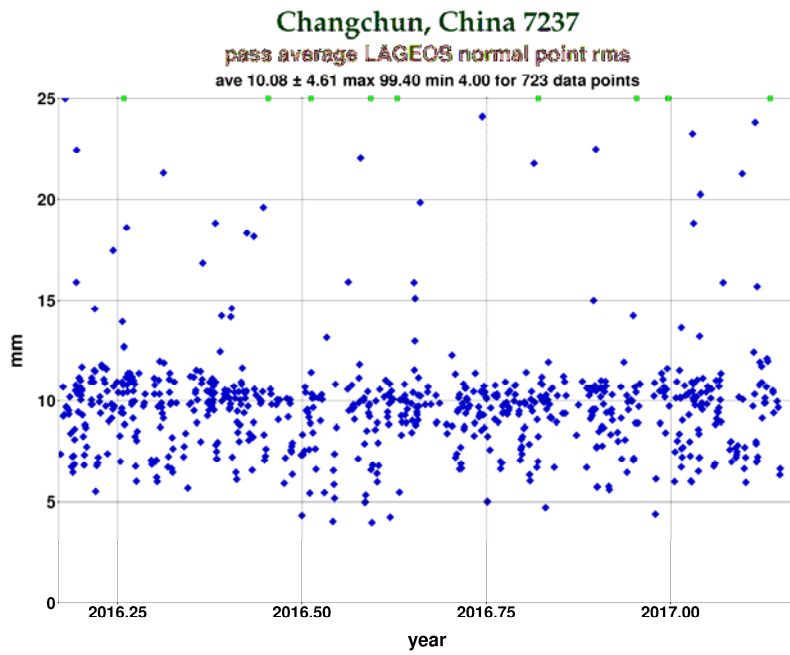
KHz SLR

2016

LAGEOS

1.7.1

1.7.2



1.7.1 2016 LAGEOS

1.7.2 2016

LAGEOS

2016

