

5

“ ”

2017

(2006-2020)

“

”

2017

“ ”

9 () 45
5 2016-2020
2016 7 15
2017 7 16
5.44
1:1
(1.1)
1-2
4
5
5 1
1
“ 1-2 ”
2 2
2

1.

1.1 SAR

SAR

MIMO

SAR

Sweep DBF

SAR

SAR

SAR

SAR

SAR

SAR

SAR

SAR

SAR

SAR

0.5m@30km 3m@300km 10m@1000km

1m

1dB

3mm

RMSE

20%

15%

1.2

/
GNSS-R

				200s
		30s		
	3km		2k	20km
20km		1km	10%	
0.02		2m/s	$\leq 20\text{m/s}$	10% $\geq 20\text{m/s}$
		20°		10% 0.5m(
	$\leq 5\text{m}$)			0.25°×0.25°

	80%	≤ 3 pixel		10%
	20%		2ms	GNSS-R
			10cm	
15cm		≤ 2 m/s	$\leq 20^\circ$	≤ 20 m/s
	10%	≥ 20 m/s		30km
	≥ 8	≥ 2 GByte		≥ 1000 GMAC/s
2.				
2.1				

30m
10m
0.1"
100
2.2
1000Hz
2.8%

Lidar

6

/

10h

5kg

7

80kg

1h

80km/h

20kg

3h

10Mbps

3.

3.1

$50\text{fT/Hz}^{1/2}$

50cm^3

$\pm 20000\text{nT}$

$\pm 100000\text{nT}$

10pT

3.2

		$1\mu\text{s}$	2cm^3				
3.3		$1\mu\text{as}$					X
				X			
		X					
				X			
		$1\mu\text{as}$					
			1				
X					0.1keV	15keV	1
					1ns		
	$10\text{eV}@5.9\text{keV}$				$10^{-3}\text{ph}/\text{cm}^2/\text{s}$		1
							X

4.

4.1 III

III CAT III

CAT III

CAT III

CAT III

1

2m

6.9m

2

5.3m

17.3m

1×10^{-9}

2s

1.5×10^{-7}

1×10^{-9}

3
4.2

5×10^{-8}
15s

4×10^{-6}

/

10

20

5

100

5

85%

12h

1h

10

10

4.3

50

20

+

10

100

50

PB

0

-

“ - - ”

IPv6

6.

6.1

6

1

6.2

- - -

“ ”

70%

80%

70%

85%

1K

80%

85%

1

6.3

CO₂

1

0.05%

2km×2km

CO₂

2017 2020

7.

7.1

“ ”

1h

2h

12h
80% 24h
85%
1
1
15
7.2 1
/
“ ”

“ ”

BDS/GNSS

90%
902hjC20 1 Tfc 0c 0./C2C2jT.0019 1151 Tc6820D5F04/C30DD210300C930I
80%