**Deployments HKW Project, Year 1+2, Overview**

The times given below are the time of first and last valid measurement for the deployment. Time are given in UTC.

The main positions are HKWA and HKWB. In addition, there is a 3rd position, called HKWC, close to HKWB and a for the position called HKWA-2, close to HKWA.

Altogether 3 buoys were used: WS187, WS188 and WS170.

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| --- | --- | --- | --- | --- |
| Depl. # | Station | Buoy | Start UTC | End UTC |
| 1 | HKWA | WS187 | 2019-02-05 12:20 | 2019-09-21 00:00 |
| 2 | HKWB | WS188 | 2019-02-10 09:00 | 2019-09-19 09:20 |
| 3 | HKWC | WS170 | 2019-08-01 00:00 | 2019-11-24 08:30 |
| 4 | HKWA | WS188 | 2019-09-21 13:50 | 2019-11-24 07:30 |
| 5 | HKWA | WS187 | 2019-11-24 08:00 | 2020-04-24 16:50 |
| 6 | HKWC | WS188 | 2019-12-18 09:20 | 2020-02-07 18:40 |
| Year 2 |
| 7 | HKWB | WS188 | 2020-04-24 16:00 | 2020-09-15 09:00 |
| 8 | HKWA-2 | WS187 | 2020-05-09 09:40 | 2020-11-06 14:30 |
| 9 | HKWB | WS170 | 2020-09-15 10:50 | 2020-11-13 23:50 |
| 10 | HKWA-2 | WS188 | 2020-11-06 15:50 | 2021-02-11 23:50 |
| 11 | HKWB | WS187 | * + 1. 01:40
 | 2020-11-23 01:20 |
| 12 | HKWB | WS170 | 2020-11-26 15:30 | 2021-02-11 23:50 |

**Deployments HKW**

1. **HKWA** (WS187) 5th February 2019 12:20 – 21st September 09:30
	1. Config updated (higher wind speed resolution) through Wi-Fi on 19th September 11:40 while the buoy was in the sea
2. **HKWB** (WS188) 10th February 2019 09:00 – 19th September 09:20
3. **HKWC** (WS170) 15th June 2019 10:00 – 24th November 08:30
	1. 16th June 00:00 – 11th August 21:00 In-situ validation against WS188 and WS187
	2. Data to be used for HKW project from 11th August onwards
	3. Data included in 9/12M data set from 1st August 00:00
	4. Config updated (higher wind speed resolution) through Wi-Fi on 19th September 06:20 while the buoy was in the sea
4. **HKWA** (WS188) 21st September 2019 13:50 – 24th November 07:30
	1. Lidar stopped 1-3 Nov
5. **HKWA** (WS187) 24th November 2019 08:00 – 24th April 2020 16:40
	1. Water temperature data missing, recovered from Aquadopp data stored on the GENI
6. **HKWC** (WS188) 18th December 2019 09:20 – 7th February 2020 18:40
	1. Buoy “hang” in the beginning
	2. Low availability on Lidar data after 1st Jan
	3. Buoy on drift 7th February 2020, rescued 8th February and brought to land, data, except water level suspicious after 7th Feb 09:00

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 **YEAR 2**

1. **HKWB** (WS188) 24th April 2020 16:00 – 15th September 09:00
	1. Buoy “hang” in boot from deployment until 9th May 2020 13:50, after it was rebooted manually, wind speed recovered, wind direction missing until 9th May
	2. Currents affected by biofouling starting in July 2020
2. **HKWA-2** (WS187) 9th May 2020 09:40 – 6th Nov 14:40 UTC
	1. Currents affected by biofouling starting in July 2020
3. **HKWB** (WS170) 15th September 2020 10:50 – 14th November 00:00 UTC
	1. Direct switch-over from TNW
	2. Water level data reprocessed
	3. Attempted recovery (crane on vessel failed before attempting to lift), 2020-11-11 15:00 = NaN
4. **HKWA-2** (WS188) 6th November 2020 15:50 UTC – 11th February 2021 23:50 UTC
	1. Gaps in Lidar data from mid-November
	2. Water level missing completely after 18th November 2020
5. **HKWB** (WS187) 14th November 2020 01:40 – 23rd November 01:20
	1. Buoy on drift 23rd November 2020, rescued and brought to land
	2. Keelweight bolts loosened over time
	3. Wave data affected earlier

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| Dataset | Valid |
| from | until |
| Met data | '2020-11-14 01:40’ UTC | '2020-11-23 01:20' UTC |
| Wind data | '2020-11-14 01:40’ UTC | '2020-11-23 01:20' UTC |
| Wave data | '2020-11-14 01:40’ UTC | '2020-11-22 17:00' UTC |

1. **HKWB** (WS170) 26th November 2020 15:30 – 11th February 2021 23:50 UTC
	1. Gaps in Lidar data at Christmas, fixed by rebooting
	2. Water level data reprocessed