# Monitoring of Chinese White Dolphins in Southwest Lantau Waters

*20th Monthly Progress Report (November 2016)*
*submitted to Environmental Project Office for the HZMB HKLR, HZMB HKBCF and TM-CLKL – Investigation*

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## 1. Introduction

1.1. In March 2015, Hong Kong Cetacean Research Project (HKCRP) was appointed by the Environmental Project Office for the HZMB Hong Kong Projects to undertake a monitoring study of Chinese White Dolphins in Southwest Lantau (SWL) waters.

1.2. The objectives of the monitoring study are to quantify the abundance and density of Chinese White Dolphins in SWL waters, to identify individuals during the monitoring surveys, and to analyze their range use and movement patterns in Hong Kong and the wider Pearl River Estuary waters.

1.3. The monitoring study will supplement the on-going EM&A monitoring results of the HZMB Hong Kong Projects in North and West Lantau waters, and provide a more complete picture of dolphin usage and movements between different survey areas in western Hong Kong waters.

1.4. The present report is the 20th monthly progress report under this dolphin monitoring study submitted to the Environmental Project Office, summarizing the survey findings during the month of November 2016.

## 2. Monitoring Methodology

*2.1. Vessel-based Line-transect Survey*

2.1.1. According to the requirement of the technical proposal submitted to the Environmental

Project Office, dolphin monitoring programme should cover all transect lines in SWL survey area (see Figure 1) once per month upon instruction. The co-ordinates of all transect lines conducted during the dolphin monitoring survey are shown in Table 1.

Table 1. Co-ordinates of transect lines in SWL survey area (corresponding to transect line layout as shown in Figure 1)

| Line # | | Northing | Easting | | Line # | | Northing | Easting |
|---|---|---|---|---|---|---|---|---|
| SWL001 | 1 | 806180 | 802510 | | SWL007 | 13 | 807380 | 808520 |
| | 2 | 804250 | 802510 | | | 14 | 805600 | 808520 |
| SWL002 | 3 | 806710 | 803480 | | | 15 | 804400 | 808520 |
| | 4 | 803450 | 803480 | | | 16 | 803000 | 808520 |
| SWL003 | 5 | 807270 | 804500 | | | 17 | 802100 | 808520 |
| | 6 | 802690 | 804500 | | | 18 | 800470 | 808520 |
| SWL004 | 7 | 807590 | 805450 | | SWL008 | 19 | 807380 | 809550 |
| | 8 | 802295 | 805450 | | | 20 | 805050 | 809550 |
| SWL005 | 9 | 808490 | 806500 | | | 21 | 804400 | 809550 |
| | 10 | 801410 | 806500 | | | 22 | 800470 | 809550 |
| SWL006 | 11 | 808500 | 807430 | | SWL009 | 23 | 807380 | 810550 |
| | 12 | 801250 | 807430 | | | 24 | 800470 | 810550 |
| | | | | | SWL010 | 25 | 809410 | 811510 |
| | | | | | | 26 | 801470 | 811510 |

2.1.2. The HKCRP survey team used standard line-transect methods (Buckland et al. 2001) to conduct the systematic vessel surveys, and followed the same technique of data collection that has been adopted over the last 18 years of marine mammal monitoring surveys in Hong Kong developed by HKCRP (see Hung 2014). For each monitoring vessel survey, a 15-m inboard vessel with an open upper deck (about 4.5 m above water surface) was used to make observations from the flying bridge area.

2.1.3. Two experienced observers from HKCRP (a data recorder and a primary observer) made up the on-effort survey team, and the survey vessel transited different transect lines at a

constant speed of 13-15 km per hour. The data recorder searched with unaided eyes and filled out the datasheets, while the primary observer searched for dolphins and porpoises continuously through 7 x 50 *Fujinon* marine binoculars. Both observers searched the sea ahead of the vessel, between 270° and 90° (in relation to the bow, which is defined as 0°). One to two additional experienced observer was available on the boat to work in shift (i.e. rotate every 30 minutes) in order to minimize fatigue of the survey team members. All observers were experienced in small cetacean survey techniques and identifying local cetacean species.

2.1.4. During on-effort survey periods, the survey team recorded effort data including time, position (latitude and longitude), weather conditions (Beaufort sea state and visibility), and distance traveled in each series (a continuous period of search effort) with the assistance of a handheld GPS (*Garmin eTrex Legend*).

2.1.5. Data including time, position and vessel speed were also automatically and continuously logged by handheld GPS throughout the entire survey for subsequent review.

2.1.6. When dolphins were sighted, the survey team would end the survey effort, and immediately record the initial sighting distance and angle of the dolphin group from the survey vessel, as well as the sighting time and position. Then the research vessel was diverted from its course to approach the animals for species identification, group size estimation, assessment of group composition, and behavioural observations. The perpendicular distance (PSD) of the dolphin group to the transect line was later calculated from the initial sighting distance and angle.

2.1.7. Survey effort being conducted along the parallel transect lines that were perpendicular to the coastlines (as indicated in Figure 1) was labeled as “primary” survey effort, while the survey effort conducted along the connecting lines between parallel lines as well as the section around the Soko Islands was labeled as “secondary” survey effort. Both primary and secondary survey effort were presented as on-effort survey effort in this report.

2.1.8. Encounter rates of Chinese White Dolphins (number of on-effort sightings per 100 km of survey effort and number of dolphins from all on-effort sightings per 100 km of survey effort) were calculated in SWL survey area in relation to the amount of survey effort conducted during each month of monitoring survey. Only data collected under Beaufort 3 or below condition would be used for encounter rate analysis. Dolphin encounter rates were calculated using the combined survey effort from both primary and secondary lines for comparison to the historical data collected by HKCRP in this survey area. For the historical data, the encounter rates were calculated by pooling all relevant survey effort

and dolphin sightings to calculate a single index.

*2.2. Photo-identification Work*

2.2.1. When a group of Chinese White Dolphins were sighted during the line-transect survey, the survey team would end effort and approach the group slowly from the side and behind to take photographs of them. Every attempt was made to photograph every dolphin in the group, and even photograph both sides of the dolphins, since the colouration and markings on both sides may not be symmetrical.

2.2.2. A professional digital camera (*Canon* EOS 7D model), equipped with long telephoto lenses (100-400 mm zoom), were available on board for researchers to take sharp, close-up photographs of dolphins as they surfaced. The images were shot at the highest available resolution and stored on Compact Flash memory cards for downloading onto a computer.

2.2.3. All digital images taken in the field were first examined, and those containing potentially identifiable individuals were sorted out. These photographs would then be examined in greater detail, and were carefully compared to the existing Chinese White Dolphin photo-identification catalogue maintained by HKCRP since 1995. For individual dolphins that are not readily identifiable from the catalogue but have distinct features on their bodies, they will be placed in a pool of "potential new individuals", with decision being made at the end of each year on whether any of them should be incorporated into the photo-ID catalogue.

2.2.4. Chinese White Dolphins can be identified by their natural markings, such as nicks, cuts, scars and deformities on their dorsal fin and body, and their unique spotting patterns were also used as secondary identifying features (Jefferson 2000).

2.2.5. All photographs of each individual were then compiled and arranged in chronological order, with data including the date and location first identified (initial sighting), re-sightings, associated dolphins, distinctive features, and age classes entered into a computer database.

## 3. Monitoring Results

*3.1. Vessel-based Line-transect Survey*

3.1.1. One set of systematic line-transect vessel survey was conducted under the present

monitoring study on November 14th to cover all transect lines in SWL survey area once. The route and track log of this survey are presented in Figure 2 and Appendix I respectively.

3.1.2. In addition, three line-transect surveys were also conducted under the AFCD long-term marine mammal monitoring programme in SWL survey area on November 4th (with lines no. SWL002, SWL004, SWL006 and SWL008 covered), November 9th (with lines no. SWL001, SWL003, SWL005, SWL007, SWL009 and SWL010 covered) and November 21st (with lines no. SWL006, SWL008 and SWL010 covered). Such monitoring data were also incorporated into the present study for various analyses.

3.1.3. For the present study alone, a total of 70.37 km of survey effort was collected from 10:11 to 15:28 (i.e. 5 hours and 17 minutes of survey time) on November 14th, with 100% of the total survey effort being conducted under favourable weather conditions (i.e. Beaufort Sea State 3 or below with good visibility) (Appendix II). The total survey effort conducted on primary and secondary lines were 53.80 km and 16.57 km respectively.

3.1.4. For the combined monitoring dataset from both the present study and AFCD monitoring study, a total of 173.17 km of survey effort was collected in SWL waters in November 2016.

3.1.5. During this monitoring month, two groups of two Chinese White Dolphins were sighted from the present study's survey and one of the three AFCD monitoring surveys (Appendix III). One of the two dolphin groups were sighted during on-effort search, while one of them was associated with an operating purse-seiner.

3.1.6. Notably, three groups of four finless porpoise were also sighted in SWL survey area during this monitoring month.

3.1.7. Distribution of the two dolphin sightings made in November 2016 is shown in Figure 3. One lone dolphin was sighted near Fan Lau, while another lone dolphin was sighted near Kau Ling Chung (Figure 3). On the contrary, they were mostly absent from the southern and eastern portions of the survey area during this monitoring month (Figure 3).

3.1.8. Encounter rates of Chinese White Dolphins deduced from the survey effort and on-effort sighting data made under favourable conditions (Beaufort 3 or below) in November 2016 are shown in Table 2. Comparison of encounter rates was also made to the one deduced in autumn months (September-November) in the past decade (2005-14), as well as in November 2015 under the present study (Table 2).

Table 2. Overall dolphin encounter rates (sightings per 100 km of survey effort) from the present monitoring survey and combined database with AFCD monitoring survey conducted in November 2016 (primary lines only, as well as both primary lines and secondary lines were used) in SWL survey area in comparison to the ones deduced during autumn months (September-November 2005-14) in the past decade

| | **Encounter rate (STG)** (no. of on-effort dolphin sightings per 100 km of survey effort) | | **Encounter rate (ANI)** (no. of dolphins from all on-effort sightings per 100 km of survey effort) | |
|---|---|---|---|---|
| | Primary Lines Only | Both Primary and Secondary Lines | Primary Lines Only | Both Primary and Secondary Lines |
| **HYD-HZMB data (November 2016)** | 1.86 | 1.42 | 1.86 | 1.42 |
| **Combined data (November 2016)** | 0.84 | 0.62 | 0.84 | 0.62 |
| **Combined data (November 2015)** | 3.30 | 3.05 | 23.13 | 18.33 |
| **Historical Data (Autumn 2005-14)** | | 4.29 | | 17.05 |

3.1.9. From the combined data of HYD-HZMB and AFCD monitoring surveys, the overall encounter rates based on the number of dolphin sightings (ER(STG)) and the total number of dolphins (ER(ANI)) deduced in November 2016 in SWL waters were much lower than the ones deduced in November 2015, and the ones from historical data during the autumn months of 2005-14 (Table 2).

*3.1.10.* The average group size of Chinese White Dolphins sighted during SWL monitoring surveys in November 2016 was 1.0 animal per group (i.e. both were lone animals; see Appendix III). This was much lower than the average group size in autumn months of 2005-14 (4.0).

*3.2. Photo-identification Work*

3.2.1. Attempts were made to photograph the dolphins sighted during all SWL surveys conducted in November 2016.

3.2.2. Among the two dolphins sighted during this month's surveys, two individual dolphins (SL05 and SL64) were identified and re-sighted twice in total (Appendices IV and V). None of them was accompanied by any calf.

3.2.3. The locations where both individuals were re-sighted were well within their past home ranges in Southwest Lantau waters.

## 4. References

Buckland, S. T., Anderson, D. R., Burnham, K. P., Laake, J. L., Borchers, D. L., and Thomas, L. 2001. Introduction to distance sampling: estimating abundance of biological populations. Oxford University Press, London.

Hung, S. K. 2014. Monitoring of Marine Mammals in Hong Kong waters: final report (2013-14). An unpublished report submitted to the Agriculture, Fisheries and Conservation Department, 231 pp.

Jefferson, T. A. 2000. Population biology of the Indo-Pacific hump-backed dolphin in Hong Kong waters. Wildlife Monographs 144:1-65.

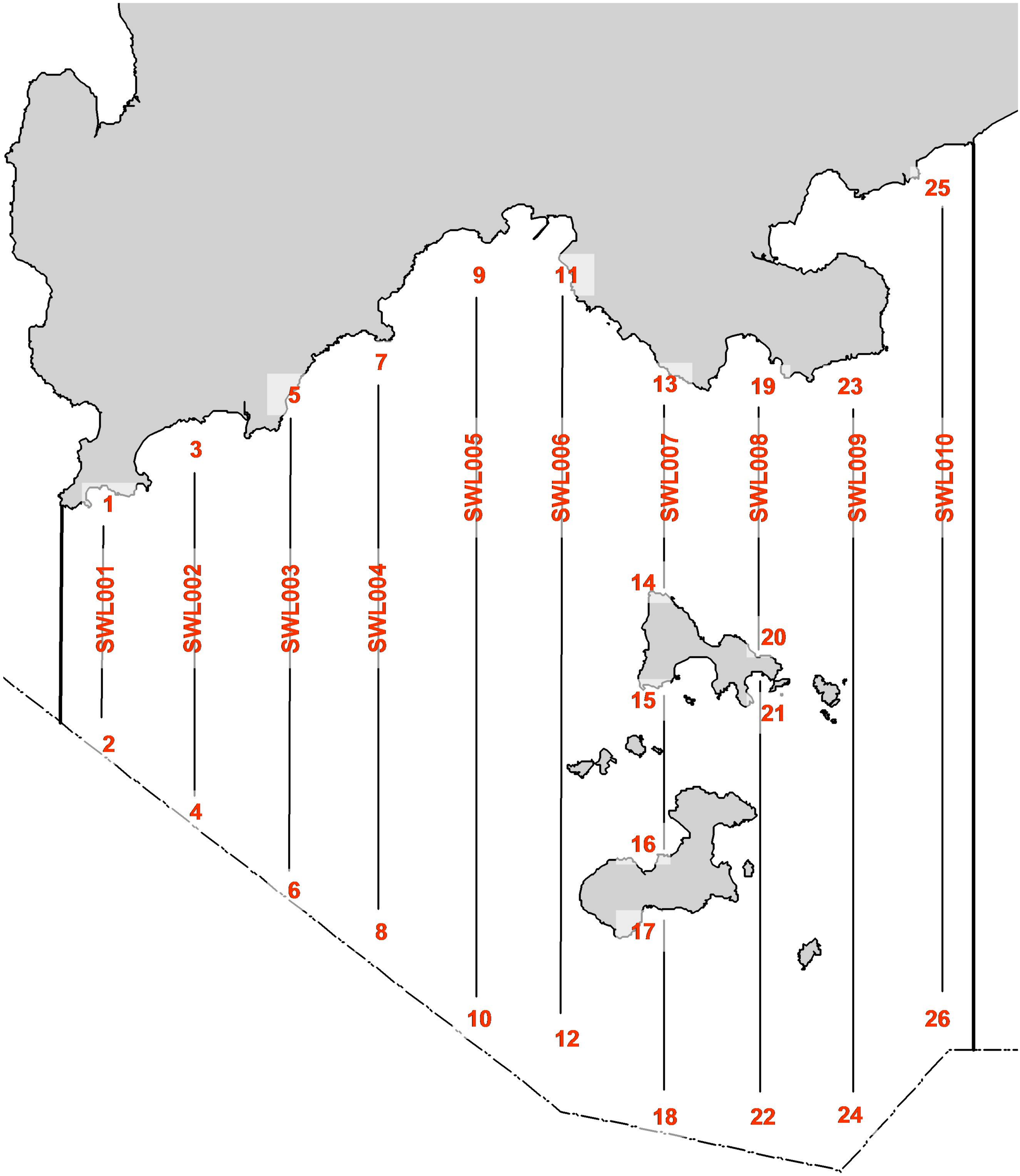


Figure 1. Survey Lines and associated coordinates in Southwest Lantau survey area

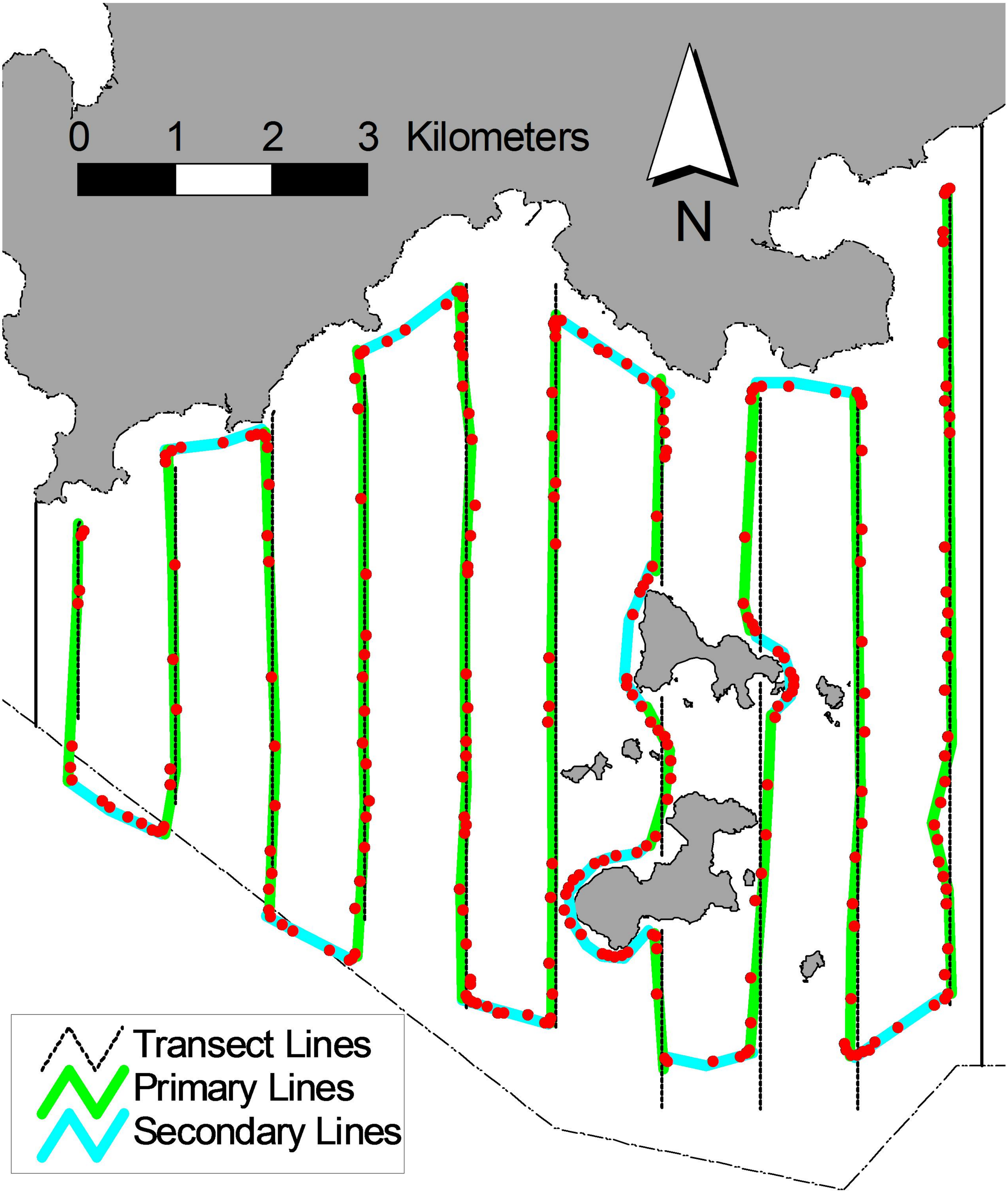


Figure 2. Survey Route on November 14th, 2016 (note: red dots represent the tracked positions of survey boat logged continuously by GPS throughout the course of the survey)

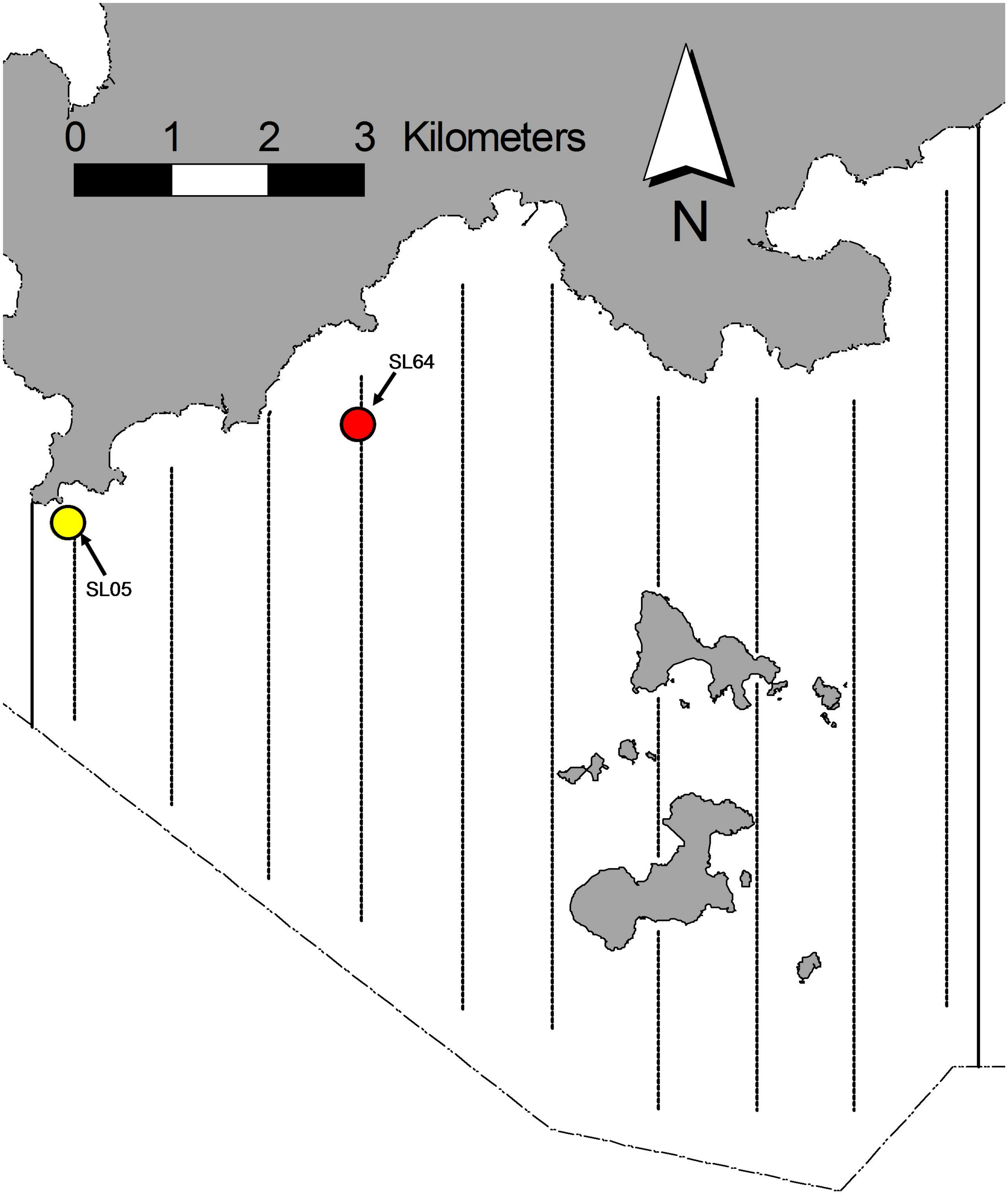


Figure 3. Distribution of Chinese White Dolphin sightings during November 2016 monitoring surveys in Southwest Lantau survey area, with identified individuals indicated for their corresponding sightings (red dot: HYD-HZMB sighting; yellow dot: AFCD sighting)

# Appendix I. Track Log of SW Lantau Survey on November 14th, 2016

| Date & Time | EFFORT | Position | Leg Length | Leg Time | Leg Speed |
|---|---|---|---|---|---|
| 14/11/2016 10:10 | ON | N22.22337 E113.93682 | | | |
| 14/11/2016 10:10 | ON | N22.22320 E113.93638 | 49 m | 0:00:15 | 12 kph |
| 14/11/2016 10:11 | ON | N22.22291 E113.93630 | 34 m | 0:00:11 | 11 kph |
| 14/11/2016 10:11 | ON | N22.22226 E113.93627 | 73 m | 0:00:20 | 13 kph |
| 14/11/2016 10:11 | ON | N22.22151 E113.93618 | 84 m | 0:00:21 | 14 kph |
| 14/11/2016 10:12 | ON | N22.22076 E113.93629 | 84 m | 0:00:21 | 14 kph |
| 14/11/2016 10:12 | ON | N22.22008 E113.93623 | 76 m | 0:00:19 | 14 kph |
| 14/11/2016 10:12 | ON | N22.21945 E113.93613 | 71 m | 0:00:18 | 14 kph |
| 14/11/2016 10:13 | ON | N22.21857 E113.93608 | 98 m | 0:00:25 | 14 kph |
| 14/11/2016 10:13 | ON | N22.21783 E113.93607 | 82 m | 0:00:21 | 14 kph |
| 14/11/2016 10:13 | ON | N22.21702 E113.93610 | 91 m | 0:00:23 | 14 kph |
| 14/11/2016 10:14 | ON | N22.21602 E113.93605 | 111 m | 0:00:28 | 14 kph |
| 14/11/2016 10:14 | ON | N22.21532 E113.93607 | 78 m | 0:00:20 | 14 kph |
| 14/11/2016 10:15 | ON | N22.21444 E113.93607 | 98 m | 0:00:25 | 14 kph |
| 14/11/2016 10:15 | ON | N22.21375 E113.93611 | 77 m | 0:00:20 | 14 kph |
| 14/11/2016 10:15 | ON | N22.21312 E113.93617 | 70 m | 0:00:18 | 14 kph |
| 14/11/2016 10:16 | ON | N22.21247 E113.93621 | 73 m | 0:00:19 | 14 kph |
| 14/11/2016 10:16 | ON | N22.21178 E113.93625 | 77 m | 0:00:20 | 14 kph |
| 14/11/2016 10:16 | ON | N22.21117 E113.93626 | 69 m | 0:00:18 | 14 kph |
| 14/11/2016 10:16 | ON | N22.21058 E113.93624 | 65 m | 0:00:17 | 14 kph |
| 14/11/2016 10:17 | ON | N22.20982 E113.93623 | 85 m | 0:00:22 | 14 kph |
| 14/11/2016 10:17 | ON | N22.20916 E113.93625 | 74 m | 0:00:19 | 14 kph |
| 14/11/2016 10:18 | ON | N22.20840 E113.93634 | 85 m | 0:00:22 | 14 kph |
| 14/11/2016 10:18 | ON | N22.20788 E113.93639 | 58 m | 0:00:15 | 14 kph |
| 14/11/2016 10:18 | ON | N22.20726 E113.93642 | 70 m | 0:00:18 | 14 kph |
| 14/11/2016 10:18 | ON | N22.20656 E113.93647 | 78 m | 0:00:20 | 14 kph |
| 14/11/2016 10:19 | ON | N22.20589 E113.93649 | 74 m | 0:00:19 | 14 kph |
| 14/11/2016 10:19 | ON | N22.20523 E113.93645 | 74 m | 0:00:19 | 14 kph |
| 14/11/2016 10:19 | ON | N22.20463 E113.93638 | 66 m | 0:00:17 | 14 kph |
| 14/11/2016 10:20 | ON | N22.20395 E113.93653 | 77 m | 0:00:20 | 14 kph |
| 14/11/2016 10:20 | ON | N22.20349 E113.93670 | 55 m | 0:00:14 | 14 kph |
| 14/11/2016 10:20 | ON | N22.20315 E113.93677 | 38 m | 0:00:10 | 14 kph |
| 14/11/2016 10:20 | ON | N22.20280 E113.93679 | 39 m | 0:00:10 | 14 kph |
| 14/11/2016 10:20 | ON | N22.20235 E113.93680 | 50 m | 0:00:13 | 14 kph |
| 14/11/2016 10:21 | ON | N22.20175 E113.93681 | 67 m | 0:00:17 | 14 kph |
| 14/11/2016 10:21 | ON | N22.20108 E113.93680 | 74 m | 0:00:19 | 14 kph |
| 14/11/2016 10:21 | ON | N22.20044 E113.93678 | 71 m | 0:00:18 | 14 kph |
| 14/11/2016 10:22 | ON | N22.19991 E113.93677 | 59 m | 0:00:15 | 14 kph |
| 14/11/2016 10:22 | ON | N22.19917 E113.93675 | 83 m | 0:00:21 | 14 kph |
| 14/11/2016 10:22 | ON | N22.19864 E113.93669 | 59 m | 0:00:15 | 14 kph |
| 14/11/2016 10:22 | ON | N22.19815 E113.93662 | 55 m | 0:00:14 | 14 kph |
| 14/11/2016 10:23 | ON | N22.19758 E113.93656 | 63 m | 0:00:16 | 14 kph |
| 14/11/2016 10:23 | ON | N22.19698 E113.93654 | 67 m | 0:00:17 | 14 kph |
| 14/11/2016 10:23 | ON | N22.19627 E113.93656 | 80 m | 0:00:20 | 14 kph |
| 14/11/2016 10:24 | ON | N22.19567 E113.93659 | 67 m | 0:00:17 | 14 kph |
| 14/11/2016 10:24 | ON | N22.19503 E113.93659 | 71 m | 0:00:18 | 14 kph |
| 14/11/2016 10:24 | ON | N22.19447 E113.93658 | 63 m | 0:00:16 | 14 kph |
| 14/11/2016 10:24 | ON | N22.19383 E113.93657 | 71 m | 0:00:18 | 14 kph |
| 14/11/2016 10:25 | ON | N22.19331 E113.93654 | 58 m | 0:00:15 | 14 kph |
| 14/11/2016 10:25 | ON | N22.19258 E113.93644 | 82 m | 0:00:21 | 14 kph |
| 14/11/2016 10:25 | ON | N22.19184 E113.93641 | 83 m | 0:00:21 | 14 kph |
| 14/11/2016 10:26 | ON | N22.19132 E113.93646 | 59 m | 0:00:15 | 14 kph |
| 14/11/2016 10:26 | ON | N22.19065 E113.93653 | 74 m | 0:00:19 | 14 kph |
| 14/11/2016 10:26 | ON | N22.18981 E113.93652 | 94 m | 0:00:24 | 14 kph |
| 14/11/2016 10:27 | ON | N22.18925 E113.93646 | 62 m | 0:00:16 | 14 kph |
| 14/11/2016 10:27 | ON | N22.18872 E113.93646 | 59 m | 0:00:15 | 14 kph |
| 14/11/2016 10:27 | ON | N22.18815 E113.93648 | 63 m | 0:00:16 | 14 kph |
| 14/11/2016 10:27 | ON | N22.18766 E113.93651 | 55 m | 0:00:14 | 14 kph |
| 14/11/2016 10:28 | ON | N22.18701 E113.93657 | 73 m | 0:00:19 | 14 kph |
| 14/11/2016 10:28 | ON | N22.18644 E113.93665 | 63 m | 0:00:16 | 14 kph |
| 14/11/2016 10:28 | ON | N22.18589 E113.93673 | 62 m | 0:00:16 | 14 kph |
| 14/11/2016 10:28 | ON | N22.18540 E113.93671 | 54 m | 0:00:14 | 14 kph |
| 14/11/2016 10:29 | ON | N22.18478 E113.93664 | 70 m | 0:00:18 | 14 kph |
| 14/11/2016 10:29 | ON | N22.18423 E113.93658 | 62 m | 0:00:16 | 14 kph |

## Appendix I. (cont'd)

| Date & Time | EFFORT | Position | Leg Length | Leg Time | Leg Speed |
|---|---|---|---|---|---|
| 14/11/2016 10:29 | ON | N22.18367 E113.93659 | 61 m | 0:00:16 | 14 kph |
| 14/11/2016 10:30 | ON | N22.18319 E113.93667 | 54 m | 0:00:14 | 14 kph |
| 14/11/2016 10:30 | ON | N22.18260 E113.93671 | 65 m | 0:00:17 | 14 kph |
| 14/11/2016 10:30 | ON | N22.18212 E113.93670 | 54 m | 0:00:14 | 14 kph |
| 14/11/2016 10:30 | ON | N22.18153 E113.93667 | 65 m | 0:00:17 | 14 kph |
| 14/11/2016 10:31 | ON | N22.18105 E113.93662 | 54 m | 0:00:14 | 14 kph |
| 14/11/2016 10:31 | ON | N22.18050 E113.93656 | 62 m | 0:00:16 | 14 kph |
| 14/11/2016 10:31 | ON | N22.18005 E113.93650 | 50 m | 0:00:13 | 14 kph |
| 14/11/2016 10:31 | ON | N22.17960 E113.93646 | 50 m | 0:00:13 | 14 kph |
| 14/11/2016 10:32 | ON | N22.17909 E113.93643 | 57 m | 0:00:15 | 14 kph |
| 14/11/2016 10:32 | ON | N22.17851 E113.93647 | 65 m | 0:00:17 | 14 kph |
| 14/11/2016 10:32 | ON | N22.17792 E113.93652 | 66 m | 0:00:17 | 14 kph |
| 14/11/2016 10:32 | ON | N22.17726 E113.93657 | 73 m | 0:00:19 | 14 kph |
| 14/11/2016 10:33 | ON | N22.17675 E113.93659 | 57 m | 0:00:15 | 14 kph |
| 14/11/2016 10:33 | ON | N22.17623 E113.93664 | 58 m | 0:00:15 | 14 kph |
| 14/11/2016 10:33 | ON | N22.17565 E113.93672 | 65 m | 0:00:17 | 14 kph |
| 14/11/2016 10:34 | ON | N22.17504 E113.93673 | 68 m | 0:00:18 | 14 kph |
| 14/11/2016 10:34 | ON | N22.17459 E113.93668 | 50 m | 0:00:13 | 14 kph |
| 14/11/2016 10:34 | ON | N22.17412 E113.93658 | 53 m | 0:00:14 | 14 kph |
| 14/11/2016 10:34 | ON | N22.17373 E113.93649 | 45 m | 0:00:12 | 14 kph |
| 14/11/2016 10:34 | ON | N22.17325 E113.93641 | 54 m | 0:00:14 | 14 kph |
| 14/11/2016 10:35 | ON | N22.17263 E113.93642 | 68 m | 0:00:18 | 14 kph |
| 14/11/2016 10:35 | ON | N22.17209 E113.93650 | 61 m | 0:00:16 | 14 kph |
| 14/11/2016 10:35 | ON | N22.17161 E113.93650 | 54 m | 0:00:14 | 14 kph |
| 14/11/2016 10:35 | ON | N22.17109 E113.93644 | 58 m | 0:00:15 | 14 kph |
| 14/11/2016 10:36 | ON | N22.17064 E113.93636 | 51 m | 0:00:13 | 14 kph |
| 14/11/2016 10:36 | ON | N22.17020 E113.93628 | 49 m | 0:00:13 | 14 kph |
| 14/11/2016 10:36 | ON | N22.16967 E113.93615 | 61 m | 0:00:16 | 14 kph |
| 14/11/2016 10:36 | ON | N22.16920 E113.93600 | 54 m | 0:00:14 | 14 kph |
| 14/11/2016 10:37 | ON | N22.16865 E113.93581 | 65 m | 0:00:17 | 14 kph |
| 14/11/2016 10:37 | ON | N22.16811 E113.93557 | 65 m | 0:00:17 | 14 kph |
| 14/11/2016 10:37 | ON | N22.16760 E113.93535 | 61 m | 0:00:16 | 14 kph |
| 14/11/2016 10:37 | ON | N22.16717 E113.93526 | 49 m | 0:00:13 | 14 kph |
| 14/11/2016 10:38 | ON | N22.16659 E113.93543 | 67 m | 0:00:18 | 13 kph |
| 14/11/2016 10:38 | ON | N22.16596 E113.93562 | 72 m | 0:00:19 | 14 kph |
| 14/11/2016 10:38 | ON | N22.16553 E113.93568 | 49 m | 0:00:13 | 14 kph |
| 14/11/2016 10:39 | ON | N22.16490 E113.93570 | 69 m | 0:00:18 | 14 kph |
| 14/11/2016 10:39 | ON | N22.16438 E113.93567 | 58 m | 0:00:15 | 14 kph |
| 14/11/2016 10:39 | ON | N22.16388 E113.93575 | 57 m | 0:00:15 | 14 kph |
| 14/11/2016 10:39 | ON | N22.16334 E113.93600 | 65 m | 0:00:17 | 14 kph |
| 14/11/2016 10:40 | ON | N22.16271 E113.93633 | 78 m | 0:00:20 | 14 kph |
| 14/11/2016 10:40 | ON | N22.16214 E113.93651 | 66 m | 0:00:17 | 14 kph |
| 14/11/2016 10:40 | ON | N22.16153 E113.93658 | 69 m | 0:00:18 | 14 kph |
| 14/11/2016 10:41 | ON | N22.16091 E113.93657 | 69 m | 0:00:18 | 14 kph |
| 14/11/2016 10:41 | ON | N22.16029 E113.93654 | 69 m | 0:00:18 | 14 kph |
| 14/11/2016 10:41 | ON | N22.15963 E113.93658 | 73 m | 0:00:19 | 14 kph |
| 14/11/2016 10:41 | ON | N22.15908 E113.93667 | 62 m | 0:00:16 | 14 kph |
| 14/11/2016 10:42 | ON | N22.15853 E113.93674 | 62 m | 0:00:16 | 14 kph |
| 14/11/2016 10:42 | ON | N22.15791 E113.93678 | 69 m | 0:00:18 | 14 kph |
| 14/11/2016 10:42 | ON | N22.15735 E113.93679 | 61 m | 0:00:16 | 14 kph |
| 14/11/2016 10:43 | ON | N22.15687 E113.93681 | 54 m | 0:00:14 | 14 kph |
| 14/11/2016 10:43 | ON | N22.15631 E113.93681 | 61 m | 0:00:16 | 14 kph |
| 14/11/2016 10:43 | ON | N22.15583 E113.93678 | 54 m | 0:00:14 | 14 kph |
| 14/11/2016 10:43 | ON | N22.15518 E113.93667 | 73 m | 0:00:19 | 14 kph |
| 14/11/2016 10:44 | ON | N22.15463 E113.93655 | 62 m | 0:00:16 | 14 kph |
| 14/11/2016 10:44 | ON | N22.15408 E113.93649 | 62 m | 0:00:16 | 14 kph |
| 14/11/2016 10:44 | ON | N22.15346 E113.93656 | 70 m | 0:00:18 | 14 kph |
| 14/11/2016 10:44 | ON | N22.15285 E113.93668 | 69 m | 0:00:18 | 14 kph |
| 14/11/2016 10:45 | ON | N22.15225 E113.93673 | 67 m | 0:00:18 | 13 kph |
| 14/11/2016 10:45 | ON | N22.15190 E113.93642 | 51 m | 0:00:15 | 12 kph |
| 14/11/2016 10:45 | ON | N22.15165 E113.93588 | 63 m | 0:00:17 | 13 kph |
| 14/11/2016 10:46 | ON | N22.15128 E113.93525 | 76 m | 0:00:20 | 14 kph |
| 14/11/2016 10:46 | ON | N22.15093 E113.93461 | 77 m | 0:00:20 | 14 kph |
| 14/11/2016 10:46 | ON | N22.15052 E113.93387 | 89 m | 0:00:23 | 14 kph |

## Appendix I. (cont'd)

| Date & Time | EFFORT | Position | Leg Length | Leg Time | Leg Speed |
|---|---|---|---|---|---|
| 14/11/2016 10:47 | ON | N22.15021 E113.93332 | 67 m | 0:00:17 | 14 kph |
| 14/11/2016 10:47 | ON | N22.14985 E113.93278 | 68 m | 0:00:17 | 15 kph |
| 14/11/2016 10:47 | ON | N22.14953 E113.93222 | 67 m | 0:00:17 | 14 kph |
| 14/11/2016 10:47 | ON | N22.14925 E113.93169 | 64 m | 0:00:16 | 14 kph |
| 14/11/2016 10:48 | ON | N22.14890 E113.93100 | 81 m | 0:00:20 | 15 kph |
| 14/11/2016 10:48 | ON | N22.14854 E113.93037 | 76 m | 0:00:19 | 14 kph |
| 14/11/2016 10:48 | OFF | N22.14820 E113.92977 | 73 m | 0:00:20 | 13 kph |
| 14/11/2016 10:49 | OFF | N22.14805 E113.92953 | 29 m | 0:00:16 | 7 kph |
| 14/11/2016 10:49 | OFF | N22.14801 E113.92949 | 6 m | 0:00:05 | 5 kph |
| 14/11/2016 10:49 | OFF | N22.14793 E113.92939 | 14 m | 0:00:14 | 4 kph |
| 14/11/2016 10:49 | OFF | N22.14784 E113.92929 | 14 m | 0:00:20 | 3 kph |
| 14/11/2016 10:50 | OFF | N22.14779 E113.92922 | 8 m | 0:00:16 | 2 kph |
| 14/11/2016 10:50 | OFF | N22.14778 E113.92920 | 3 m | 0:00:21 | 0.5 kph |
| 14/11/2016 10:50 | OFF | N22.14777 E113.92918 | 2 m | 0:00:19 | 0.3 kph |
| 14/11/2016 10:51 | OFF | N22.14776 E113.92916 | 3 m | 0:00:16 | 0.6 kph |
| 14/11/2016 10:51 | OFF | N22.14773 E113.92913 | 5 m | 0:00:19 | 1.0 kph |
| 14/11/2016 10:51 | OFF | N22.14771 E113.92910 | 3 m | 0:00:17 | 0.7 kph |
| 14/11/2016 10:51 | OFF | N22.14770 E113.92908 | 2 m | 0:00:16 | 0.6 kph |
| 14/11/2016 10:52 | OFF | N22.14769 E113.92907 | 2 m | 0:00:11 | 0.5 kph |
| 14/11/2016 10:52 | OFF | N22.14768 E113.92905 | 2 m | 0:00:13 | 0.4 kph |
| 14/11/2016 10:52 | OFF | N22.14768 E113.92904 | 1 m | 0:00:14 | 0.3 kph |
| 14/11/2016 10:52 | OFF | N22.14768 E113.92903 | 1 m | 0:00:13 | 0.2 kph |
| 14/11/2016 10:52 | OFF | N22.14764 E113.92901 | 5 m | 0:00:13 | 1.4 kph |
| 14/11/2016 10:53 | OFF | N22.14762 E113.92901 | 1 m | 0:00:01 | 5 kph |
| 14/11/2016 10:53 | ON | N22.14740 E113.92881 | 32 m | 0:00:14 | 8 kph |
| 14/11/2016 10:53 | ON | N22.14720 E113.92827 | 60 m | 0:00:18 | 12 kph |
| 14/11/2016 10:53 | ON | N22.14696 E113.92758 | 76 m | 0:00:20 | 14 kph |
| 14/11/2016 10:54 | ON | N22.14697 E113.92696 | 63 m | 0:00:18 | 13 kph |
| 14/11/2016 10:54 | ON | N22.14739 E113.92659 | 61 m | 0:00:17 | 13 kph |
| 14/11/2016 10:54 | ON | N22.14803 E113.92642 | 74 m | 0:00:19 | 14 kph |
| 14/11/2016 10:55 | ON | N22.14868 E113.92647 | 72 m | 0:00:18 | 14 kph |
| 14/11/2016 10:55 | ON | N22.14924 E113.92658 | 63 m | 0:00:16 | 14 kph |
| 14/11/2016 10:55 | ON | N22.14984 E113.92668 | 68 m | 0:00:17 | 14 kph |
| 14/11/2016 10:55 | ON | N22.15052 E113.92681 | 76 m | 0:00:19 | 14 kph |
| 14/11/2016 10:56 | ON | N22.15112 E113.92692 | 68 m | 0:00:17 | 14 kph |
| 14/11/2016 10:56 | ON | N22.15188 E113.92703 | 85 m | 0:00:21 | 15 kph |
| 14/11/2016 10:56 | OFF | N22.15249 E113.92702 | 68 m | 0:00:17 | 14 kph |
| 14/11/2016 10:57 | OFF | N22.15288 E113.92703 | 44 m | 0:00:16 | 10 kph |
| 14/11/2016 10:57 | OFF | N22.15311 E113.92704 | 25 m | 0:00:14 | 6 kph |
| 14/11/2016 10:57 | OFF | N22.15326 E113.92704 | 17 m | 0:00:13 | 5 kph |
| 14/11/2016 10:57 | OFF | N22.15339 E113.92704 | 14 m | 0:00:14 | 4 kph |
| 14/11/2016 10:58 | OFF | N22.15349 E113.92705 | 11 m | 0:00:14 | 3 kph |
| 14/11/2016 10:58 | OFF | N22.15357 E113.92705 | 9 m | 0:00:15 | 2 kph |
| 14/11/2016 10:58 | OFF | N22.15363 E113.92706 | 6 m | 0:00:12 | 2 kph |
| 14/11/2016 10:58 | OFF | N22.15369 E113.92707 | 7 m | 0:00:15 | 2 kph |
| 14/11/2016 10:58 | OFF | N22.15373 E113.92708 | 5 m | 0:00:13 | 1.3 kph |
| 14/11/2016 10:59 | OFF | N22.15376 E113.92709 | 4 m | 0:00:13 | 1.0 kph |
| 14/11/2016 10:59 | OFF | N22.15379 E113.92709 | 3 m | 0:00:11 | 1.1 kph |
| 14/11/2016 10:59 | OFF | N22.15383 E113.92709 | 4 m | 0:00:16 | 0.9 kph |
| 14/11/2016 10:59 | OFF | N22.15387 E113.92708 | 4 m | 0:00:16 | 0.9 kph |
| 14/11/2016 11:00 | OFF | N22.15395 E113.92710 | 9 m | 0:00:12 | 3 kph |
| 14/11/2016 11:00 | ON | N22.15423 E113.92715 | 32 m | 0:00:15 | 8 kph |
| 14/11/2016 11:00 | ON | N22.15470 E113.92718 | 52 m | 0:00:16 | 12 kph |
| 14/11/2016 11:00 | ON | N22.15519 E113.92720 | 55 m | 0:00:15 | 13 kph |
| 14/11/2016 11:01 | ON | N22.15577 E113.92722 | 65 m | 0:00:17 | 14 kph |
| 14/11/2016 11:01 | ON | N22.15646 E113.92724 | 77 m | 0:00:20 | 14 kph |
| 14/11/2016 11:01 | ON | N22.15705 E113.92722 | 65 m | 0:00:17 | 14 kph |
| 14/11/2016 11:02 | ON | N22.15770 E113.92728 | 73 m | 0:00:19 | 14 kph |
| 14/11/2016 11:02 | ON | N22.15830 E113.92730 | 67 m | 0:00:17 | 14 kph |
| 14/11/2016 11:02 | ON | N22.15893 E113.92724 | 70 m | 0:00:18 | 14 kph |
| 14/11/2016 11:02 | ON | N22.15958 E113.92720 | 73 m | 0:00:19 | 14 kph |
| 14/11/2016 11:03 | ON | N22.16033 E113.92722 | 84 m | 0:00:22 | 14 kph |
| 14/11/2016 11:03 | ON | N22.16083 E113.92732 | 57 m | 0:00:15 | 14 kph |
| 14/11/2016 11:03 | ON | N22.16142 E113.92737 | 66 m | 0:00:17 | 14 kph |

## Appendix I. (cont'd)

| Date & Time | EFFORT | Position | Leg Length | Leg Time | Leg Speed |
|---|---|---|---|---|---|
| 14/11/2016 11:04 | ON | N22.16204 E113.92735 | 69 m | 0:00:18 | 14 kph |
| 14/11/2016 11:04 | ON | N22.16259 E113.92738 | 61 m | 0:00:16 | 14 kph |
| 14/11/2016 11:04 | ON | N22.16313 E113.92742 | 61 m | 0:00:16 | 14 kph |
| 14/11/2016 11:05 | ON | N22.16382 E113.92747 | 77 m | 0:00:20 | 14 kph |
| 14/11/2016 11:05 | ON | N22.16444 E113.92752 | 69 m | 0:00:18 | 14 kph |
| 14/11/2016 11:05 | ON | N22.16495 E113.92759 | 57 m | 0:00:15 | 14 kph |
| 14/11/2016 11:05 | ON | N22.16553 E113.92766 | 65 m | 0:00:17 | 14 kph |
| 14/11/2016 11:06 | ON | N22.16605 E113.92781 | 60 m | 0:00:16 | 14 kph |
| 14/11/2016 11:06 | ON | N22.16661 E113.92794 | 64 m | 0:00:17 | 13 kph |
| 14/11/2016 11:06 | ON | N22.16728 E113.92805 | 76 m | 0:00:20 | 14 kph |
| 14/11/2016 11:07 | ON | N22.16782 E113.92805 | 60 m | 0:00:16 | 13 kph |
| 14/11/2016 11:07 | ON | N22.16850 E113.92807 | 75 m | 0:00:20 | 14 kph |
| 14/11/2016 11:07 | ON | N22.16904 E113.92807 | 61 m | 0:00:16 | 14 kph |
| 14/11/2016 11:07 | ON | N22.16959 E113.92806 | 61 m | 0:00:16 | 14 kph |
| 14/11/2016 11:08 | ON | N22.17024 E113.92809 | 72 m | 0:00:19 | 14 kph |
| 14/11/2016 11:08 | ON | N22.17072 E113.92812 | 54 m | 0:00:14 | 14 kph |
| 14/11/2016 11:08 | ON | N22.17131 E113.92817 | 66 m | 0:00:17 | 14 kph |
| 14/11/2016 11:08 | ON | N22.17186 E113.92816 | 61 m | 0:00:16 | 14 kph |
| 14/11/2016 11:09 | ON | N22.17248 E113.92815 | 69 m | 0:00:18 | 14 kph |
| 14/11/2016 11:09 | ON | N22.17306 E113.92819 | 65 m | 0:00:17 | 14 kph |
| 14/11/2016 11:09 | ON | N22.17361 E113.92819 | 61 m | 0:00:16 | 14 kph |
| 14/11/2016 11:10 | ON | N22.17431 E113.92822 | 78 m | 0:00:20 | 14 kph |
| 14/11/2016 11:10 | ON | N22.17485 E113.92825 | 59 m | 0:00:15 | 14 kph |
| 14/11/2016 11:10 | ON | N22.17542 E113.92826 | 63 m | 0:00:16 | 14 kph |
| 14/11/2016 11:10 | ON | N22.17603 E113.92828 | 69 m | 0:00:17 | 15 kph |
| 14/11/2016 11:11 | ON | N22.17653 E113.92827 | 56 m | 0:00:14 | 14 kph |
| 14/11/2016 11:11 | ON | N22.17707 E113.92828 | 60 m | 0:00:15 | 14 kph |
| 14/11/2016 11:11 | ON | N22.17765 E113.92827 | 64 m | 0:00:16 | 14 kph |
| 14/11/2016 11:12 | ON | N22.17826 E113.92827 | 68 m | 0:00:17 | 14 kph |
| 14/11/2016 11:12 | ON | N22.17883 E113.92829 | 64 m | 0:00:16 | 14 kph |
| 14/11/2016 11:12 | ON | N22.17932 E113.92827 | 55 m | 0:00:14 | 14 kph |
| 14/11/2016 11:12 | ON | N22.17985 E113.92821 | 59 m | 0:00:15 | 14 kph |
| 14/11/2016 11:13 | ON | N22.18048 E113.92816 | 70 m | 0:00:18 | 14 kph |
| 14/11/2016 11:13 | ON | N22.18113 E113.92816 | 72 m | 0:00:19 | 14 kph |
| 14/11/2016 11:13 | ON | N22.18174 E113.92810 | 68 m | 0:00:18 | 14 kph |
| 14/11/2016 11:13 | ON | N22.18236 E113.92805 | 70 m | 0:00:18 | 14 kph |
| 14/11/2016 11:14 | ON | N22.18285 E113.92805 | 55 m | 0:00:14 | 14 kph |
| 14/11/2016 11:14 | ON | N22.18341 E113.92801 | 63 m | 0:00:16 | 14 kph |
| 14/11/2016 11:14 | ON | N22.18397 E113.92798 | 62 m | 0:00:16 | 14 kph |
| 14/11/2016 11:15 | ON | N22.18453 E113.92798 | 62 m | 0:00:16 | 14 kph |
| 14/11/2016 11:15 | ON | N22.18503 E113.92798 | 55 m | 0:00:14 | 14 kph |
| 14/11/2016 11:15 | ON | N22.18570 E113.92797 | 75 m | 0:00:19 | 14 kph |
| 14/11/2016 11:15 | ON | N22.18637 E113.92794 | 75 m | 0:00:19 | 14 kph |
| 14/11/2016 11:16 | ON | N22.18715 E113.92792 | 87 m | 0:00:22 | 14 kph |
| 14/11/2016 11:16 | ON | N22.18775 E113.92793 | 67 m | 0:00:17 | 14 kph |
| 14/11/2016 11:16 | ON | N22.18846 E113.92791 | 79 m | 0:00:20 | 14 kph |
| 14/11/2016 11:17 | ON | N22.18919 E113.92789 | 82 m | 0:00:21 | 14 kph |
| 14/11/2016 11:17 | ON | N22.18980 E113.92785 | 67 m | 0:00:17 | 14 kph |
| 14/11/2016 11:17 | ON | N22.19042 E113.92784 | 69 m | 0:00:18 | 14 kph |
| 14/11/2016 11:18 | ON | N22.19095 E113.92787 | 59 m | 0:00:15 | 14 kph |
| 14/11/2016 11:18 | ON | N22.19140 E113.92792 | 51 m | 0:00:13 | 14 kph |
| 14/11/2016 11:18 | ON | N22.19196 E113.92796 | 63 m | 0:00:16 | 14 kph |
| 14/11/2016 11:18 | ON | N22.19256 E113.92798 | 66 m | 0:00:17 | 14 kph |
| 14/11/2016 11:19 | ON | N22.19326 E113.92800 | 78 m | 0:00:20 | 14 kph |
| 14/11/2016 11:19 | ON | N22.19404 E113.92800 | 87 m | 0:00:22 | 14 kph |
| 14/11/2016 11:19 | ON | N22.19467 E113.92802 | 70 m | 0:00:18 | 14 kph |
| 14/11/2016 11:20 | ON | N22.19531 E113.92801 | 71 m | 0:00:18 | 14 kph |
| 14/11/2016 11:20 | ON | N22.19602 E113.92801 | 79 m | 0:00:20 | 14 kph |
| 14/11/2016 11:20 | ON | N22.19665 E113.92800 | 70 m | 0:00:18 | 14 kph |
| 14/11/2016 11:20 | ON | N22.19712 E113.92799 | 52 m | 0:00:14 | 13 kph |
| 14/11/2016 11:21 | ON | N22.19760 E113.92798 | 53 m | 0:00:14 | 14 kph |
| 14/11/2016 11:21 | ON | N22.19837 E113.92796 | 85 m | 0:00:22 | 14 kph |
| 14/11/2016 11:21 | ON | N22.19904 E113.92797 | 74 m | 0:00:19 | 14 kph |
| 14/11/2016 11:22 | ON | N22.19970 E113.92800 | 74 m | 0:00:19 | 14 kph |

## Appendix I. (cont'd)

| Date & Time | EFFORT | Position | Leg Length | Leg Time | Leg Speed |
|---|---|---|---|---|---|
| 14/11/2016 11:22 | ON | N22.20022 E113.92799 | 58 m | 0:00:15 | 14 kph |
| 14/11/2016 11:22 | ON | N22.20096 E113.92795 | 82 m | 0:00:21 | 14 kph |
| 14/11/2016 11:23 | ON | N22.20159 E113.92793 | 70 m | 0:00:18 | 14 kph |
| 14/11/2016 11:23 | ON | N22.20212 E113.92793 | 59 m | 0:00:15 | 14 kph |
| 14/11/2016 11:23 | ON | N22.20272 E113.92791 | 67 m | 0:00:17 | 14 kph |
| 14/11/2016 11:24 | ON | N22.20354 E113.92790 | 91 m | 0:00:23 | 14 kph |
| 14/11/2016 11:24 | ON | N22.20432 E113.92788 | 87 m | 0:00:22 | 14 kph |
| 14/11/2016 11:24 | ON | N22.20491 E113.92780 | 66 m | 0:00:17 | 14 kph |
| 14/11/2016 11:24 | ON | N22.20534 E113.92745 | 60 m | 0:00:17 | 13 kph |
| 14/11/2016 11:25 | ON | N22.20540 E113.92722 | 24 m | 0:00:07 | 12 kph |
| 14/11/2016 11:25 | ON | N22.20541 E113.92709 | 14 m | 0:00:04 | 12 kph |
| 14/11/2016 11:25 | ON | N22.20542 E113.92665 | 46 m | 0:00:13 | 13 kph |
| 14/11/2016 11:25 | ON | N22.20541 E113.92619 | 47 m | 0:00:13 | 13 kph |
| 14/11/2016 11:25 | ON | N22.20534 E113.92540 | 83 m | 0:00:23 | 13 kph |
| 14/11/2016 11:26 | ON | N22.20541 E113.92460 | 83 m | 0:00:23 | 13 kph |
| 14/11/2016 11:26 | ON | N22.20548 E113.92400 | 62 m | 0:00:17 | 13 kph |
| 14/11/2016 11:26 | ON | N22.20552 E113.92355 | 46 m | 0:00:13 | 13 kph |
| 14/11/2016 11:26 | ON | N22.20555 E113.92325 | 31 m | 0:00:09 | 13 kph |
| 14/11/2016 11:27 | ON | N22.20562 E113.92291 | 36 m | 0:00:10 | 13 kph |
| 14/11/2016 11:27 | ON | N22.20569 E113.92258 | 35 m | 0:00:10 | 13 kph |
| 14/11/2016 11:27 | ON | N22.20577 E113.92225 | 35 m | 0:00:10 | 13 kph |
| 14/11/2016 11:27 | ON | N22.20583 E113.92181 | 46 m | 0:00:13 | 13 kph |
| 14/11/2016 11:27 | ON | N22.20586 E113.92140 | 43 m | 0:00:12 | 13 kph |
| 14/11/2016 11:28 | ON | N22.20589 E113.92071 | 71 m | 0:00:20 | 13 kph |
| 14/11/2016 11:28 | ON | N22.20590 E113.91994 | 80 m | 0:00:22 | 13 kph |
| 14/11/2016 11:28 | ON | N22.20591 E113.91919 | 77 m | 0:00:21 | 13 kph |
| 14/11/2016 11:29 | ON | N22.20593 E113.91862 | 60 m | 0:00:16 | 13 kph |
| 14/11/2016 11:29 | ON | N22.20593 E113.91789 | 75 m | 0:00:20 | 13 kph |
| 14/11/2016 11:29 | ON | N22.20577 E113.91727 | 66 m | 0:00:18 | 13 kph |
| 14/11/2016 11:30 | ON | N22.20538 E113.91700 | 52 m | 0:00:15 | 13 kph |
| 14/11/2016 11:30 | ON | N22.20476 E113.91682 | 71 m | 0:00:19 | 13 kph |
| 14/11/2016 11:30 | ON | N22.20429 E113.91675 | 53 m | 0:00:14 | 14 kph |
| 14/11/2016 11:30 | ON | N22.20380 E113.91674 | 54 m | 0:00:14 | 14 kph |
| 14/11/2016 11:31 | ON | N22.20319 E113.91677 | 68 m | 0:00:17 | 14 kph |
| 14/11/2016 11:31 | ON | N22.20266 E113.91678 | 59 m | 0:00:15 | 14 kph |
| 14/11/2016 11:31 | ON | N22.20224 E113.91677 | 47 m | 0:00:12 | 14 kph |
| 14/11/2016 11:31 | ON | N22.20155 E113.91681 | 76 m | 0:00:19 | 14 kph |
| 14/11/2016 11:32 | ON | N22.20093 E113.91685 | 70 m | 0:00:17 | 15 kph |
| 14/11/2016 11:32 | ON | N22.20039 E113.91687 | 60 m | 0:00:15 | 14 kph |
| 14/11/2016 11:32 | ON | N22.19972 E113.91684 | 75 m | 0:00:19 | 14 kph |
| 14/11/2016 11:32 | ON | N22.19929 E113.91681 | 49 m | 0:00:12 | 15 kph |
| 14/11/2016 11:33 | ON | N22.19875 E113.91676 | 60 m | 0:00:15 | 14 kph |
| 14/11/2016 11:33 | ON | N22.19821 E113.91674 | 60 m | 0:00:15 | 14 kph |
| 14/11/2016 11:33 | ON | N22.19765 E113.91668 | 63 m | 0:00:16 | 14 kph |
| 14/11/2016 11:33 | ON | N22.19716 E113.91663 | 55 m | 0:00:14 | 14 kph |
| 14/11/2016 11:34 | ON | N22.19663 E113.91661 | 59 m | 0:00:15 | 14 kph |
| 14/11/2016 11:34 | ON | N22.19615 E113.91659 | 54 m | 0:00:14 | 14 kph |
| 14/11/2016 11:34 | ON | N22.19562 E113.91657 | 59 m | 0:00:15 | 14 kph |
| 14/11/2016 11:34 | ON | N22.19509 E113.91655 | 59 m | 0:00:15 | 14 kph |
| 14/11/2016 11:35 | ON | N22.19456 E113.91652 | 59 m | 0:00:15 | 14 kph |
| 14/11/2016 11:35 | ON | N22.19403 E113.91648 | 59 m | 0:00:15 | 14 kph |
| 14/11/2016 11:35 | ON | N22.19358 E113.91641 | 51 m | 0:00:13 | 14 kph |
| 14/11/2016 11:35 | ON | N22.19299 E113.91637 | 66 m | 0:00:17 | 14 kph |
| 14/11/2016 11:36 | ON | N22.19246 E113.91633 | 59 m | 0:00:15 | 14 kph |
| 14/11/2016 11:36 | ON | N22.19197 E113.91633 | 55 m | 0:00:14 | 14 kph |
| 14/11/2016 11:36 | ON | N22.19144 E113.91630 | 59 m | 0:00:15 | 14 kph |
| 14/11/2016 11:36 | ON | N22.19091 E113.91628 | 59 m | 0:00:15 | 14 kph |
| 14/11/2016 11:37 | ON | N22.19039 E113.91627 | 59 m | 0:00:15 | 14 kph |
| 14/11/2016 11:37 | ON | N22.18969 E113.91623 | 78 m | 0:00:20 | 14 kph |
| 14/11/2016 11:37 | ON | N22.18902 E113.91619 | 74 m | 0:00:19 | 14 kph |
| 14/11/2016 11:38 | ON | N22.18850 E113.91616 | 59 m | 0:00:15 | 14 kph |
| 14/11/2016 11:38 | ON | N22.18786 E113.91614 | 70 m | 0:00:18 | 14 kph |
| 14/11/2016 11:38 | ON | N22.18720 E113.91607 | 74 m | 0:00:19 | 14 kph |
| 14/11/2016 11:38 | ON | N22.18674 E113.91605 | 51 m | 0:00:13 | 14 kph |

## Appendix I. (cont'd)

| Date & Time | EFFORT | Position | Leg Length | Leg Time | Leg Speed |
|---|---|---|---|---|---|
| 14/11/2016 11:39 | ON | N22.18611 E113.91624 | 74 m | 0:00:19 | 14 kph |
| 14/11/2016 11:39 | ON | N22.18548 E113.91655 | 76 m | 0:00:19 | 14 kph |
| 14/11/2016 11:39 | ON | N22.18491 E113.91696 | 76 m | 0:00:19 | 14 kph |
| 14/11/2016 11:40 | ON | N22.18432 E113.91740 | 80 m | 0:00:20 | 14 kph |
| 14/11/2016 11:40 | ON | N22.18382 E113.91793 | 78 m | 0:00:19 | 15 kph |
| 14/11/2016 11:40 | ON | N22.18340 E113.91843 | 70 m | 0:00:17 | 15 kph |
| 14/11/2016 11:41 | ON | N22.18296 E113.91901 | 77 m | 0:00:19 | 15 kph |
| 14/11/2016 11:41 | ON | N22.18247 E113.91961 | 82 m | 0:00:20 | 15 kph |
| 14/11/2016 11:41 | ON | N22.18189 E113.92015 | 86 m | 0:00:21 | 15 kph |
| 14/11/2016 11:42 | ON | N22.18129 E113.92057 | 80 m | 0:00:20 | 14 kph |
| 14/11/2016 11:42 | ON | N22.18073 E113.92087 | 70 m | 0:00:18 | 14 kph |
| 14/11/2016 11:42 | ON | N22.18010 E113.92106 | 72 m | 0:00:19 | 14 kph |
| 14/11/2016 11:43 | ON | N22.17952 E113.92119 | 66 m | 0:00:18 | 13 kph |
| 14/11/2016 11:43 | ON | N22.17902 E113.92104 | 58 m | 0:00:16 | 13 kph |
| 14/11/2016 11:43 | ON | N22.17845 E113.92063 | 76 m | 0:00:20 | 14 kph |
| 14/11/2016 11:43 | ON | N22.17803 E113.92011 | 71 m | 0:00:19 | 13 kph |
| 14/11/2016 11:44 | ON | N22.17766 E113.91972 | 58 m | 0:00:16 | 13 kph |
| 14/11/2016 11:44 | ON | N22.17717 E113.91944 | 61 m | 0:00:17 | 13 kph |
| 14/11/2016 11:44 | ON | N22.17665 E113.91929 | 60 m | 0:00:16 | 14 kph |
| 14/11/2016 11:45 | ON | N22.17610 E113.91918 | 62 m | 0:00:16 | 14 kph |
| 14/11/2016 11:45 | ON | N22.17555 E113.91910 | 62 m | 0:00:16 | 14 kph |
| 14/11/2016 11:45 | ON | N22.17502 E113.91906 | 60 m | 0:00:15 | 14 kph |
| 14/11/2016 11:45 | ON | N22.17449 E113.91901 | 59 m | 0:00:15 | 14 kph |
| 14/11/2016 11:46 | ON | N22.17396 E113.91896 | 59 m | 0:00:15 | 14 kph |
| 14/11/2016 11:46 | ON | N22.17336 E113.91891 | 67 m | 0:00:17 | 14 kph |
| 14/11/2016 11:46 | ON | N22.17275 E113.91887 | 67 m | 0:00:17 | 14 kph |
| 14/11/2016 11:46 | ON | N22.17229 E113.91887 | 52 m | 0:00:13 | 14 kph |
| 14/11/2016 11:47 | ON | N22.17174 E113.91875 | 62 m | 0:00:16 | 14 kph |
| 14/11/2016 11:47 | ON | N22.17116 E113.91867 | 65 m | 0:00:17 | 14 kph |
| 14/11/2016 11:47 | ON | N22.17065 E113.91859 | 58 m | 0:00:15 | 14 kph |
| 14/11/2016 11:47 | ON | N22.17008 E113.91855 | 64 m | 0:00:16 | 14 kph |
| 14/11/2016 11:48 | ON | N22.16957 E113.91851 | 57 m | 0:00:14 | 15 kph |
| 14/11/2016 11:48 | ON | N22.16902 E113.91852 | 61 m | 0:00:15 | 15 kph |
| 14/11/2016 11:48 | ON | N22.16839 E113.91851 | 70 m | 0:00:17 | 15 kph |
| 14/11/2016 11:48 | ON | N22.16784 E113.91848 | 61 m | 0:00:15 | 15 kph |
| 14/11/2016 11:49 | ON | N22.16728 E113.91845 | 63 m | 0:00:16 | 14 kph |
| 14/11/2016 11:49 | ON | N22.16682 E113.91842 | 51 m | 0:00:13 | 14 kph |
| 14/11/2016 11:49 | ON | N22.16630 E113.91835 | 59 m | 0:00:15 | 14 kph |
| 14/11/2016 11:49 | ON | N22.16579 E113.91825 | 58 m | 0:00:15 | 14 kph |
| 14/11/2016 11:50 | ON | N22.16528 E113.91816 | 57 m | 0:00:15 | 14 kph |
| 14/11/2016 11:50 | ON | N22.16473 E113.91811 | 61 m | 0:00:16 | 14 kph |
| 14/11/2016 11:50 | ON | N22.16414 E113.91806 | 66 m | 0:00:17 | 14 kph |
| 14/11/2016 11:51 | ON | N22.16348 E113.91803 | 74 m | 0:00:19 | 14 kph |
| 14/11/2016 11:51 | ON | N22.16289 E113.91795 | 66 m | 0:00:17 | 14 kph |
| 14/11/2016 11:51 | ON | N22.16231 E113.91782 | 65 m | 0:00:17 | 14 kph |
| 14/11/2016 11:51 | ON | N22.16178 E113.91766 | 62 m | 0:00:16 | 14 kph |
| 14/11/2016 11:52 | ON | N22.16118 E113.91753 | 68 m | 0:00:18 | 14 kph |
| 14/11/2016 11:52 | ON | N22.16063 E113.91743 | 62 m | 0:00:16 | 14 kph |
| 14/11/2016 11:52 | ON | N22.15997 E113.91739 | 73 m | 0:00:19 | 14 kph |
| 14/11/2016 11:53 | ON | N22.15937 E113.91737 | 67 m | 0:00:18 | 13 kph |
| 14/11/2016 11:53 | ON | N22.15877 E113.91736 | 67 m | 0:00:18 | 13 kph |
| 14/11/2016 11:53 | ON | N22.15819 E113.91733 | 64 m | 0:00:17 | 14 kph |
| 14/11/2016 11:54 | ON | N22.15750 E113.91726 | 78 m | 0:00:21 | 13 kph |
| 14/11/2016 11:54 | ON | N22.15690 E113.91716 | 68 m | 0:00:18 | 14 kph |
| 14/11/2016 11:54 | ON | N22.15630 E113.91708 | 67 m | 0:00:18 | 13 kph |
| 14/11/2016 11:54 | ON | N22.15579 E113.91707 | 57 m | 0:00:15 | 14 kph |
| 14/11/2016 11:55 | ON | N22.15511 E113.91704 | 76 m | 0:00:20 | 14 kph |
| 14/11/2016 11:55 | ON | N22.15453 E113.91701 | 65 m | 0:00:17 | 14 kph |
| 14/11/2016 11:55 | ON | N22.15381 E113.91696 | 80 m | 0:00:21 | 14 kph |
| 14/11/2016 11:56 | ON | N22.15326 E113.91695 | 61 m | 0:00:16 | 14 kph |
| 14/11/2016 11:56 | ON | N22.15282 E113.91693 | 50 m | 0:00:13 | 14 kph |
| 14/11/2016 11:56 | ON | N22.15230 E113.91691 | 57 m | 0:00:15 | 14 kph |
| 14/11/2016 11:56 | ON | N22.15182 E113.91692 | 54 m | 0:00:14 | 14 kph |
| 14/11/2016 11:57 | ON | N22.15133 E113.91695 | 54 m | 0:00:14 | 14 kph |

## Appendix I. (cont'd)

| Date & Time | EFFORT | Position | Leg Length | Leg Time | Leg Speed |
|---|---|---|---|---|---|
| 14/11/2016 11:57 | ON | N22.15084 E113.91699 | 55 m | 0:00:14 | 14 kph |
| 14/11/2016 11:57 | ON | N22.15025 E113.91702 | 66 m | 0:00:17 | 14 kph |
| 14/11/2016 11:57 | ON | N22.14966 E113.91701 | 65 m | 0:00:17 | 14 kph |
| 14/11/2016 11:58 | ON | N22.14912 E113.91697 | 61 m | 0:00:16 | 14 kph |
| 14/11/2016 11:58 | ON | N22.14850 E113.91693 | 69 m | 0:00:18 | 14 kph |
| 14/11/2016 11:58 | ON | N22.14795 E113.91686 | 61 m | 0:00:16 | 14 kph |
| 14/11/2016 11:58 | ON | N22.14742 E113.91680 | 60 m | 0:00:16 | 13 kph |
| 14/11/2016 11:59 | ON | N22.14710 E113.91650 | 47 m | 0:00:14 | 12 kph |
| 14/11/2016 11:59 | ON | N22.14684 E113.91591 | 67 m | 0:00:19 | 13 kph |
| 14/11/2016 11:59 | ON | N22.14669 E113.91525 | 70 m | 0:00:19 | 13 kph |
| 14/11/2016 12:00 | ON | N22.14654 E113.91460 | 69 m | 0:00:19 | 13 kph |
| 14/11/2016 12:00 | ON | N22.14637 E113.91388 | 76 m | 0:00:21 | 13 kph |
| 14/11/2016 12:00 | ON | N22.14631 E113.91314 | 77 m | 0:00:21 | 13 kph |
| 14/11/2016 12:01 | ON | N22.14629 E113.91257 | 59 m | 0:00:16 | 13 kph |
| 14/11/2016 12:01 | ON | N22.14632 E113.91193 | 66 m | 0:00:18 | 13 kph |
| 14/11/2016 12:01 | ON | N22.14635 E113.91129 | 66 m | 0:00:18 | 13 kph |
| 14/11/2016 12:01 | ON | N22.14633 E113.91061 | 69 m | 0:00:19 | 13 kph |
| 14/11/2016 12:02 | ON | N22.14630 E113.91000 | 63 m | 0:00:17 | 13 kph |
| 14/11/2016 12:02 | ON | N22.14631 E113.90924 | 78 m | 0:00:21 | 13 kph |
| 14/11/2016 12:02 | ON | N22.14632 E113.90858 | 68 m | 0:00:19 | 13 kph |
| 14/11/2016 12:03 | ON | N22.14665 E113.90825 | 50 m | 0:00:15 | 12 kph |
| 14/11/2016 12:03 | ON | N22.14724 E113.90812 | 67 m | 0:00:18 | 13 kph |
| 14/11/2016 12:03 | ON | N22.14801 E113.90804 | 87 m | 0:00:22 | 14 kph |
| 14/11/2016 12:04 | ON | N22.14878 E113.90796 | 86 m | 0:00:22 | 14 kph |
| 14/11/2016 12:04 | ON | N22.14949 E113.90787 | 80 m | 0:00:21 | 14 kph |
| 14/11/2016 12:04 | ON | N22.15015 E113.90781 | 73 m | 0:00:19 | 14 kph |
| 14/11/2016 12:05 | ON | N22.15095 E113.90778 | 89 m | 0:00:23 | 14 kph |
| 14/11/2016 12:05 | ON | N22.15163 E113.90770 | 77 m | 0:00:20 | 14 kph |
| 14/11/2016 12:05 | ON | N22.15232 E113.90764 | 76 m | 0:00:20 | 14 kph |
| 14/11/2016 12:06 | ON | N22.15295 E113.90766 | 70 m | 0:00:18 | 14 kph |
| 14/11/2016 12:06 | ON | N22.15361 E113.90764 | 73 m | 0:00:19 | 14 kph |
| 14/11/2016 12:06 | ON | N22.15423 E113.90759 | 69 m | 0:00:18 | 14 kph |
| 14/11/2016 12:07 | ON | N22.15478 E113.90758 | 62 m | 0:00:16 | 14 kph |
| 14/11/2016 12:07 | ON | N22.15549 E113.90757 | 79 m | 0:00:20 | 14 kph |
| 14/11/2016 12:07 | ON | N22.15620 E113.90754 | 79 m | 0:00:20 | 14 kph |
| 14/11/2016 12:08 | ON | N22.15688 E113.90755 | 75 m | 0:00:19 | 14 kph |
| 14/11/2016 12:08 | ON | N22.15738 E113.90744 | 56 m | 0:00:15 | 14 kph |
| 14/11/2016 12:08 | ON | N22.15756 E113.90701 | 49 m | 0:00:15 | 12 kph |
| 14/11/2016 12:08 | ON | N22.15731 E113.90655 | 56 m | 0:00:16 | 12 kph |
| 14/11/2016 12:09 | ON | N22.15690 E113.90596 | 76 m | 0:00:19 | 14 kph |
| 14/11/2016 12:09 | ON | N22.15638 E113.90523 | 95 m | 0:00:23 | 15 kph |
| 14/11/2016 12:09 | ON | N22.15600 E113.90460 | 78 m | 0:00:19 | 15 kph |
| 14/11/2016 12:10 | ON | N22.15572 E113.90395 | 73 m | 0:00:18 | 15 kph |
| 14/11/2016 12:10 | ON | N22.15559 E113.90330 | 69 m | 0:00:18 | 14 kph |
| 14/11/2016 12:10 | ON | N22.15565 E113.90256 | 77 m | 0:00:22 | 13 kph |
| 14/11/2016 12:11 | ON | N22.15592 E113.90203 | 63 m | 0:00:19 | 12 kph |
| 14/11/2016 12:11 | ON | N22.15639 E113.90139 | 84 m | 0:00:24 | 13 kph |
| 14/11/2016 12:11 | ON | N22.15672 E113.90097 | 57 m | 0:00:16 | 13 kph |
| 14/11/2016 12:12 | ON | N22.15712 E113.90041 | 73 m | 0:00:20 | 13 kph |
| 14/11/2016 12:12 | ON | N22.15757 E113.89989 | 73 m | 0:00:20 | 13 kph |
| 14/11/2016 12:12 | ON | N22.15801 E113.89937 | 73 m | 0:00:20 | 13 kph |
| 14/11/2016 12:13 | ON | N22.15850 E113.89889 | 73 m | 0:00:20 | 13 kph |
| 14/11/2016 12:13 | ON | N22.15905 E113.89856 | 70 m | 0:00:19 | 13 kph |
| 14/11/2016 12:13 | ON | N22.15972 E113.89832 | 79 m | 0:00:21 | 13 kph |
| 14/11/2016 12:14 | ON | N22.16031 E113.89828 | 66 m | 0:00:17 | 14 kph |
| 14/11/2016 12:14 | ON | N22.16102 E113.89837 | 80 m | 0:00:20 | 14 kph |
| 14/11/2016 12:14 | ON | N22.16172 E113.89868 | 85 m | 0:00:21 | 14 kph |
| 14/11/2016 12:15 | ON | N22.16227 E113.89912 | 76 m | 0:00:18 | 15 kph |
| 14/11/2016 12:15 | ON | N22.16278 E113.89974 | 85 m | 0:00:20 | 15 kph |
| 14/11/2016 12:15 | ON | N22.16333 E113.90056 | 104 m | 0:00:24 | 16 kph |
| 14/11/2016 12:16 | ON | N22.16375 E113.90134 | 93 m | 0:00:21 | 16 kph |
| 14/11/2016 12:16 | ON | N22.16414 E113.90216 | 96 m | 0:00:21 | 16 kph |
| 14/11/2016 12:17 | ON | N22.16448 E113.90341 | 134 m | 0:00:29 | 17 kph |
| 14/11/2016 12:17 | ON | N22.16456 E113.90458 | 121 m | 0:00:26 | 17 kph |

## Appendix I. (cont'd)

| Date & Time | EFFORT | Position | Leg Length | Leg Time | Leg Speed |
|---|---|---|---|---|---|
| 14/11/2016 12:17 | ON | N22.16473 E113.90547 | 93 m | 0:00:21 | 16 kph |
| 14/11/2016 12:18 | ON | N22.16532 E113.90643 | 119 m | 0:00:26 | 16 kph |
| 14/11/2016 12:18 | ON | N22.16616 E113.90728 | 129 m | 0:00:28 | 17 kph |
| 14/11/2016 12:19 | ON | N22.16688 E113.90762 | 87 m | 0:00:19 | 16 kph |
| 14/11/2016 12:19 | ON | N22.16748 E113.90776 | 69 m | 0:00:15 | 16 kph |
| 14/11/2016 12:19 | ON | N22.16842 E113.90805 | 109 m | 0:00:24 | 16 kph |
| 14/11/2016 12:20 | ON | N22.16951 E113.90851 | 130 m | 0:00:28 | 17 kph |
| 14/11/2016 12:20 | ON | N22.17038 E113.90868 | 99 m | 0:00:22 | 16 kph |
| 14/11/2016 12:20 | ON | N22.17125 E113.90881 | 98 m | 0:00:22 | 16 kph |
| 14/11/2016 12:21 | ON | N22.17192 E113.90886 | 75 m | 0:00:17 | 16 kph |
| 14/11/2016 12:21 | ON | N22.17275 E113.90889 | 92 m | 0:00:21 | 16 kph |
| 14/11/2016 12:21 | ON | N22.17349 E113.90883 | 82 m | 0:00:19 | 16 kph |
| 14/11/2016 12:22 | ON | N22.17422 E113.90861 | 84 m | 0:00:20 | 15 kph |
| 14/11/2016 12:22 | ON | N22.17498 E113.90824 | 92 m | 0:00:24 | 14 kph |
| 14/11/2016 12:22 | ON | N22.17559 E113.90771 | 87 m | 0:00:24 | 13 kph |
| 14/11/2016 12:23 | ON | N22.17598 E113.90727 | 64 m | 0:00:17 | 14 kph |
| 14/11/2016 12:23 | ON | N22.17632 E113.90676 | 64 m | 0:00:18 | 13 kph |
| 14/11/2016 12:23 | ON | N22.17692 E113.90628 | 83 m | 0:00:22 | 14 kph |
| 14/11/2016 12:24 | ON | N22.17756 E113.90586 | 84 m | 0:00:22 | 14 kph |
| 14/11/2016 12:24 | ON | N22.17816 E113.90539 | 83 m | 0:00:22 | 14 kph |
| 14/11/2016 12:24 | ON | N22.17865 E113.90500 | 67 m | 0:00:18 | 13 kph |
| 14/11/2016 12:25 | ON | N22.17915 E113.90465 | 66 m | 0:00:18 | 13 kph |
| 14/11/2016 12:25 | ON | N22.17947 E113.90448 | 40 m | 0:00:11 | 13 kph |
| 14/11/2016 12:25 | ON | N22.18003 E113.90435 | 63 m | 0:00:17 | 13 kph |
| 14/11/2016 12:26 | ON | N22.18079 E113.90437 | 85 m | 0:00:22 | 14 kph |
| 14/11/2016 12:26 | ON | N22.18149 E113.90452 | 79 m | 0:00:20 | 14 kph |
| 14/11/2016 12:26 | ON | N22.18193 E113.90467 | 52 m | 0:00:13 | 14 kph |
| 14/11/2016 12:26 | ON | N22.18265 E113.90477 | 80 m | 0:00:20 | 14 kph |
| 14/11/2016 12:27 | ON | N22.18346 E113.90480 | 90 m | 0:00:22 | 15 kph |
| 14/11/2016 12:27 | ON | N22.18425 E113.90491 | 89 m | 0:00:21 | 15 kph |
| 14/11/2016 12:27 | ON | N22.18498 E113.90502 | 82 m | 0:00:19 | 16 kph |
| 14/11/2016 12:28 | ON | N22.18567 E113.90513 | 78 m | 0:00:18 | 16 kph |
| 14/11/2016 12:28 | ON | N22.18625 E113.90529 | 66 m | 0:00:15 | 16 kph |
| 14/11/2016 12:28 | ON | N22.18687 E113.90549 | 72 m | 0:00:16 | 16 kph |
| 14/11/2016 12:29 | ON | N22.18761 E113.90572 | 86 m | 0:00:19 | 16 kph |
| 14/11/2016 12:29 | ON | N22.18769 E113.90575 | 9 m | 0:00:02 | 16 kph |
| 14/11/2016 12:29 | ON | N22.18827 E113.90606 | 72 m | 0:00:16 | 16 kph |
| 14/11/2016 12:29 | ON | N22.18877 E113.90657 | 77 m | 0:00:17 | 16 kph |
| 14/11/2016 12:29 | ON | N22.18931 E113.90680 | 64 m | 0:00:15 | 15 kph |
| 14/11/2016 12:30 | ON | N22.19002 E113.90699 | 81 m | 0:00:19 | 15 kph |
| 14/11/2016 12:30 | ON | N22.19069 E113.90710 | 76 m | 0:00:18 | 15 kph |
| 14/11/2016 12:30 | ON | N22.19144 E113.90716 | 83 m | 0:00:20 | 15 kph |
| 14/11/2016 12:31 | ON | N22.19231 E113.90723 | 96 m | 0:00:23 | 15 kph |
| 14/11/2016 12:31 | ON | N22.19298 E113.90728 | 76 m | 0:00:18 | 15 kph |
| 14/11/2016 12:31 | ON | N22.19377 E113.90731 | 88 m | 0:00:21 | 15 kph |
| 14/11/2016 12:32 | ON | N22.19444 E113.90738 | 75 m | 0:00:18 | 15 kph |
| 14/11/2016 12:32 | ON | N22.19535 E113.90752 | 101 m | 0:00:24 | 15 kph |
| 14/11/2016 12:32 | ON | N22.19594 E113.90762 | 67 m | 0:00:16 | 15 kph |
| 14/11/2016 12:33 | ON | N22.19650 E113.90772 | 63 m | 0:00:15 | 15 kph |
| 14/11/2016 12:33 | ON | N22.19724 E113.90785 | 84 m | 0:00:20 | 15 kph |
| 14/11/2016 12:33 | ON | N22.19811 E113.90799 | 97 m | 0:00:23 | 15 kph |
| 14/11/2016 12:34 | ON | N22.19882 E113.90811 | 80 m | 0:00:19 | 15 kph |
| 14/11/2016 12:34 | ON | N22.19964 E113.90820 | 92 m | 0:00:22 | 15 kph |
| 14/11/2016 12:34 | ON | N22.20024 E113.90825 | 66 m | 0:00:16 | 15 kph |
| 14/11/2016 12:35 | ON | N22.20095 E113.90829 | 79 m | 0:00:19 | 15 kph |
| 14/11/2016 12:35 | ON | N22.20168 E113.90823 | 82 m | 0:00:20 | 15 kph |
| 14/11/2016 12:35 | ON | N22.20224 E113.90811 | 64 m | 0:00:16 | 14 kph |
| 14/11/2016 12:36 | ON | N22.20293 E113.90802 | 77 m | 0:00:19 | 15 kph |
| 14/11/2016 12:36 | ON | N22.20371 E113.90808 | 88 m | 0:00:21 | 15 kph |
| 14/11/2016 12:36 | ON | N22.20446 E113.90816 | 83 m | 0:00:20 | 15 kph |
| 14/11/2016 12:37 | ON | N22.20538 E113.90807 | 103 m | 0:00:25 | 15 kph |
| 14/11/2016 12:37 | ON | N22.20579 E113.90778 | 55 m | 0:00:15 | 13 kph |
| 14/11/2016 12:37 | ON | N22.20609 E113.90735 | 55 m | 0:00:15 | 13 kph |
| 14/11/2016 12:38 | ON | N22.20642 E113.90670 | 76 m | 0:00:21 | 13 kph |

## Appendix I. (cont'd)

| Date & Time | EFFORT | Position | Leg Length | Leg Time | Leg Speed |
|---|---|---|---|---|---|
| 14/11/2016 12:38 | ON | N22.20662 E113.90613 | 63 m | 0:00:17 | 13 kph |
| 14/11/2016 12:38 | ON | N22.20701 E113.90545 | 83 m | 0:00:22 | 14 kph |
| 14/11/2016 12:38 | ON | N22.20738 E113.90489 | 70 m | 0:00:19 | 13 kph |
| 14/11/2016 12:39 | ON | N22.20782 E113.90428 | 80 m | 0:00:21 | 14 kph |
| 14/11/2016 12:39 | ON | N22.20815 E113.90365 | 75 m | 0:00:20 | 13 kph |
| 14/11/2016 12:39 | ON | N22.20848 E113.90305 | 72 m | 0:00:19 | 14 kph |
| 14/11/2016 12:40 | ON | N22.20880 E113.90240 | 75 m | 0:00:20 | 14 kph |
| 14/11/2016 12:40 | ON | N22.20913 E113.90169 | 82 m | 0:00:22 | 13 kph |
| 14/11/2016 12:40 | ON | N22.20949 E113.90116 | 68 m | 0:00:18 | 14 kph |
| 14/11/2016 12:41 | ON | N22.20997 E113.90057 | 81 m | 0:00:21 | 14 kph |
| 14/11/2016 12:41 | ON | N22.21049 E113.89992 | 89 m | 0:00:23 | 14 kph |
| 14/11/2016 12:42 | ON | N22.21086 E113.89921 | 84 m | 0:00:22 | 14 kph |
| 14/11/2016 12:42 | ON | N22.21123 E113.89846 | 87 m | 0:00:23 | 14 kph |
| 14/11/2016 12:42 | ON | N22.21162 E113.89775 | 85 m | 0:00:22 | 14 kph |
| 14/11/2016 12:43 | ON | N22.21172 E113.89721 | 57 m | 0:00:16 | 13 kph |
| 14/11/2016 12:43 | ON | N22.21144 E113.89700 | 37 m | 0:00:12 | 11 kph |
| 14/11/2016 12:43 | ON | N22.21099 E113.89718 | 54 m | 0:00:14 | 14 kph |
| 14/11/2016 12:43 | ON | N22.21030 E113.89733 | 78 m | 0:00:19 | 15 kph |
| 14/11/2016 12:44 | ON | N22.20956 E113.89731 | 83 m | 0:00:20 | 15 kph |
| 14/11/2016 12:44 | ON | N22.20883 E113.89721 | 82 m | 0:00:20 | 15 kph |
| 14/11/2016 12:44 | ON | N22.20816 E113.89720 | 74 m | 0:00:18 | 15 kph |
| 14/11/2016 12:45 | ON | N22.20754 E113.89714 | 70 m | 0:00:17 | 15 kph |
| 14/11/2016 12:45 | ON | N22.20670 E113.89705 | 94 m | 0:00:23 | 15 kph |
| 14/11/2016 12:45 | ON | N22.20603 E113.89703 | 74 m | 0:00:18 | 15 kph |
| 14/11/2016 12:46 | ON | N22.20529 E113.89698 | 83 m | 0:00:20 | 15 kph |
| 14/11/2016 12:46 | ON | N22.20462 E113.89701 | 75 m | 0:00:18 | 15 kph |
| 14/11/2016 12:46 | ON | N22.20396 E113.89703 | 74 m | 0:00:18 | 15 kph |
| 14/11/2016 12:46 | ON | N22.20340 E113.89703 | 62 m | 0:00:15 | 15 kph |
| 14/11/2016 12:47 | ON | N22.20279 E113.89697 | 68 m | 0:00:17 | 14 kph |
| 14/11/2016 12:47 | ON | N22.20210 E113.89694 | 78 m | 0:00:19 | 15 kph |
| 14/11/2016 12:47 | ON | N22.20140 E113.89693 | 78 m | 0:00:19 | 15 kph |
| 14/11/2016 12:48 | ON | N22.20066 E113.89696 | 82 m | 0:00:20 | 15 kph |
| 14/11/2016 12:48 | ON | N22.19993 E113.89703 | 82 m | 0:00:20 | 15 kph |
| 14/11/2016 12:48 | ON | N22.19941 E113.89707 | 58 m | 0:00:14 | 15 kph |
| 14/11/2016 12:49 | ON | N22.19887 E113.89709 | 60 m | 0:00:15 | 14 kph |
| 14/11/2016 12:49 | ON | N22.19814 E113.89714 | 81 m | 0:00:20 | 15 kph |
| 14/11/2016 12:49 | ON | N22.19740 E113.89718 | 82 m | 0:00:20 | 15 kph |
| 14/11/2016 12:49 | ON | N22.19678 E113.89716 | 69 m | 0:00:17 | 15 kph |
| 14/11/2016 12:50 | ON | N22.19605 E113.89712 | 82 m | 0:00:20 | 15 kph |
| 14/11/2016 12:50 | ON | N22.19546 E113.89715 | 65 m | 0:00:16 | 15 kph |
| 14/11/2016 12:50 | ON | N22.19484 E113.89717 | 69 m | 0:00:17 | 15 kph |
| 14/11/2016 12:51 | ON | N22.19430 E113.89720 | 60 m | 0:00:15 | 14 kph |
| 14/11/2016 12:51 | ON | N22.19361 E113.89714 | 77 m | 0:00:19 | 15 kph |
| 14/11/2016 12:51 | ON | N22.19300 E113.89714 | 68 m | 0:00:17 | 14 kph |
| 14/11/2016 12:51 | ON | N22.19246 E113.89715 | 60 m | 0:00:15 | 14 kph |
| 14/11/2016 12:52 | ON | N22.19195 E113.89716 | 57 m | 0:00:14 | 15 kph |
| 14/11/2016 12:52 | ON | N22.19121 E113.89712 | 83 m | 0:00:21 | 14 kph |
| 14/11/2016 12:52 | ON | N22.19060 E113.89707 | 68 m | 0:00:17 | 14 kph |
| 14/11/2016 12:53 | ON | N22.18978 E113.89701 | 91 m | 0:00:23 | 14 kph |
| 14/11/2016 12:53 | ON | N22.18913 E113.89701 | 72 m | 0:00:18 | 14 kph |
| 14/11/2016 12:53 | ON | N22.18831 E113.89701 | 92 m | 0:00:23 | 14 kph |
| 14/11/2016 12:54 | ON | N22.18756 E113.89700 | 83 m | 0:00:21 | 14 kph |
| 14/11/2016 12:54 | ON | N22.18681 E113.89699 | 83 m | 0:00:21 | 14 kph |
| 14/11/2016 12:55 | ON | N22.18594 E113.89692 | 97 m | 0:00:25 | 14 kph |
| 14/11/2016 12:55 | ON | N22.18524 E113.89688 | 78 m | 0:00:20 | 14 kph |
| 14/11/2016 12:55 | ON | N22.18453 E113.89691 | 80 m | 0:00:20 | 14 kph |
| 14/11/2016 12:56 | ON | N22.18378 E113.89690 | 83 m | 0:00:21 | 14 kph |
| 14/11/2016 12:56 | ON | N22.18314 E113.89685 | 72 m | 0:00:18 | 14 kph |
| 14/11/2016 12:56 | ON | N22.18249 E113.89676 | 73 m | 0:00:18 | 15 kph |
| 14/11/2016 12:56 | ON | N22.18194 E113.89673 | 62 m | 0:00:15 | 15 kph |
| 14/11/2016 12:57 | ON | N22.18104 E113.89676 | 100 m | 0:00:24 | 15 kph |
| 14/11/2016 12:57 | ON | N22.18032 E113.89676 | 80 m | 0:00:19 | 15 kph |
| 14/11/2016 12:57 | ON | N22.17956 E113.89673 | 85 m | 0:00:20 | 15 kph |
| 14/11/2016 12:58 | ON | N22.17880 E113.89671 | 84 m | 0:00:20 | 15 kph |

## Appendix I. (cont'd)

| Date & Time | EFFORT | Position | Leg Length | Leg Time | Leg Speed |
|---|---|---|---|---|---|
| 14/11/2016 12:58 | ON | N22.17819 E113.89671 | 68 m | 0:00:16 | 15 kph |
| 14/11/2016 12:58 | ON | N22.17756 E113.89670 | 71 m | 0:00:17 | 15 kph |
| 14/11/2016 12:59 | ON | N22.17697 E113.89662 | 66 m | 0:00:16 | 15 kph |
| 14/11/2016 12:59 | ON | N22.17628 E113.89648 | 78 m | 0:00:19 | 15 kph |
| 14/11/2016 12:59 | ON | N22.17561 E113.89653 | 75 m | 0:00:18 | 15 kph |
| 14/11/2016 13:00 | ON | N22.17486 E113.89655 | 83 m | 0:00:20 | 15 kph |
| 14/11/2016 13:00 | ON | N22.17426 E113.89655 | 66 m | 0:00:16 | 15 kph |
| 14/11/2016 13:00 | ON | N22.17370 E113.89656 | 63 m | 0:00:15 | 15 kph |
| 14/11/2016 13:00 | ON | N22.17301 E113.89663 | 77 m | 0:00:18 | 15 kph |
| 14/11/2016 13:01 | ON | N22.17221 E113.89669 | 89 m | 0:00:21 | 15 kph |
| 14/11/2016 13:01 | ON | N22.17135 E113.89674 | 96 m | 0:00:22 | 16 kph |
| 14/11/2016 13:01 | ON | N22.17057 E113.89680 | 87 m | 0:00:20 | 16 kph |
| 14/11/2016 13:02 | ON | N22.16949 E113.89686 | 121 m | 0:00:28 | 16 kph |
| 14/11/2016 13:02 | ON | N22.16860 E113.89688 | 99 m | 0:00:23 | 16 kph |
| 14/11/2016 13:03 | ON | N22.16774 E113.89693 | 95 m | 0:00:22 | 16 kph |
| 14/11/2016 13:03 | ON | N22.16686 E113.89697 | 99 m | 0:00:23 | 15 kph |
| 14/11/2016 13:03 | ON | N22.16609 E113.89696 | 85 m | 0:00:20 | 15 kph |
| 14/11/2016 13:04 | ON | N22.16536 E113.89692 | 81 m | 0:00:19 | 15 kph |
| 14/11/2016 13:04 | ON | N22.16455 E113.89698 | 91 m | 0:00:21 | 16 kph |
| 14/11/2016 13:04 | ON | N22.16381 E113.89704 | 83 m | 0:00:19 | 16 kph |
| 14/11/2016 13:05 | ON | N22.16303 E113.89701 | 87 m | 0:00:20 | 16 kph |
| 14/11/2016 13:05 | ON | N22.16237 E113.89694 | 75 m | 0:00:17 | 16 kph |
| 14/11/2016 13:05 | ON | N22.16159 E113.89682 | 87 m | 0:00:20 | 16 kph |
| 14/11/2016 13:06 | ON | N22.16079 E113.89678 | 89 m | 0:00:20 | 16 kph |
| 14/11/2016 13:06 | ON | N22.16010 E113.89680 | 77 m | 0:00:17 | 16 kph |
| 14/11/2016 13:06 | ON | N22.15925 E113.89681 | 95 m | 0:00:21 | 16 kph |
| 14/11/2016 13:06 | ON | N22.15893 E113.89680 | 36 m | 0:00:08 | 16 kph |
| 14/11/2016 13:07 | ON | N22.15829 E113.89674 | 71 m | 0:00:16 | 16 kph |
| 14/11/2016 13:07 | ON | N22.15770 E113.89668 | 66 m | 0:00:15 | 16 kph |
| 14/11/2016 13:07 | ON | N22.15693 E113.89670 | 86 m | 0:00:19 | 16 kph |
| 14/11/2016 13:07 | ON | N22.15625 E113.89671 | 75 m | 0:00:17 | 16 kph |
| 14/11/2016 13:08 | ON | N22.15551 E113.89667 | 83 m | 0:00:19 | 16 kph |
| 14/11/2016 13:08 | ON | N22.15496 E113.89666 | 61 m | 0:00:14 | 16 kph |
| 14/11/2016 13:08 | ON | N22.15456 E113.89671 | 44 m | 0:00:10 | 16 kph |
| 14/11/2016 13:09 | ON | N22.15378 E113.89693 | 90 m | 0:00:20 | 16 kph |
| 14/11/2016 13:09 | ON | N22.15307 E113.89707 | 80 m | 0:00:18 | 16 kph |
| 14/11/2016 13:09 | ON | N22.15234 E113.89711 | 82 m | 0:00:19 | 15 kph |
| 14/11/2016 13:10 | ON | N22.15150 E113.89705 | 93 m | 0:00:22 | 15 kph |
| 14/11/2016 13:10 | ON | N22.15078 E113.89700 | 80 m | 0:00:19 | 15 kph |
| 14/11/2016 13:10 | ON | N22.15018 E113.89692 | 67 m | 0:00:16 | 15 kph |
| 14/11/2016 13:10 | ON | N22.14980 E113.89671 | 48 m | 0:00:13 | 13 kph |
| 14/11/2016 13:11 | ON | N22.14977 E113.89626 | 46 m | 0:00:15 | 11 kph |
| 14/11/2016 13:11 | ON | N22.15000 E113.89577 | 57 m | 0:00:16 | 13 kph |
| 14/11/2016 13:11 | ON | N22.15017 E113.89520 | 62 m | 0:00:17 | 13 kph |
| 14/11/2016 13:11 | ON | N22.15035 E113.89456 | 69 m | 0:00:19 | 13 kph |
| 14/11/2016 13:12 | ON | N22.15042 E113.89399 | 58 m | 0:00:16 | 13 kph |
| 14/11/2016 13:12 | ON | N22.15046 E113.89336 | 66 m | 0:00:18 | 13 kph |
| 14/11/2016 13:12 | ON | N22.15051 E113.89273 | 66 m | 0:00:18 | 13 kph |
| 14/11/2016 13:13 | ON | N22.15057 E113.89217 | 58 m | 0:00:16 | 13 kph |
| 14/11/2016 13:13 | ON | N22.15064 E113.89153 | 66 m | 0:00:18 | 13 kph |
| 14/11/2016 13:13 | ON | N22.15086 E113.89101 | 59 m | 0:00:17 | 13 kph |
| 14/11/2016 13:13 | ON | N22.15111 E113.89050 | 60 m | 0:00:17 | 13 kph |
| 14/11/2016 13:14 | ON | N22.15125 E113.89006 | 48 m | 0:00:14 | 12 kph |
| 14/11/2016 13:14 | ON | N22.15137 E113.88951 | 59 m | 0:00:17 | 12 kph |
| 14/11/2016 13:14 | ON | N22.15154 E113.88899 | 56 m | 0:00:17 | 12 kph |
| 14/11/2016 13:15 | ON | N22.15187 E113.88846 | 66 m | 0:00:20 | 12 kph |
| 14/11/2016 13:15 | ON | N22.15212 E113.88840 | 28 m | 0:00:09 | 11 kph |
| 14/11/2016 13:15 | ON | N22.15258 E113.88856 | 54 m | 0:00:15 | 13 kph |
| 14/11/2016 13:15 | ON | N22.15310 E113.88877 | 62 m | 0:00:16 | 14 kph |
| 14/11/2016 13:15 | ON | N22.15358 E113.88879 | 54 m | 0:00:15 | 13 kph |
| 14/11/2016 13:16 | ON | N22.15415 E113.88872 | 64 m | 0:00:18 | 13 kph |
| 14/11/2016 13:16 | ON | N22.15473 E113.88866 | 65 m | 0:00:18 | 13 kph |
| 14/11/2016 13:16 | ON | N22.15539 E113.88856 | 74 m | 0:00:21 | 13 kph |
| 14/11/2016 13:17 | ON | N22.15594 E113.88842 | 63 m | 0:00:18 | 13 kph |

## Appendix I. (cont'd)

| Date & Time | EFFORT | Position | Leg Length | Leg Time | Leg Speed |
|---|---|---|---|---|---|
| 14/11/2016 13:17 | ON | N22.15656 E113.88830 | 69 m | 0:00:20 | 13 kph |
| 14/11/2016 13:17 | ON | N22.15728 E113.88822 | 81 m | 0:00:23 | 13 kph |
| 14/11/2016 13:18 | ON | N22.15784 E113.88816 | 63 m | 0:00:18 | 13 kph |
| 14/11/2016 13:18 | ON | N22.15847 E113.88810 | 70 m | 0:00:20 | 13 kph |
| 14/11/2016 13:18 | ON | N22.15905 E113.88812 | 65 m | 0:00:18 | 13 kph |
| 14/11/2016 13:19 | ON | N22.15964 E113.88801 | 66 m | 0:00:19 | 13 kph |
| 14/11/2016 13:19 | ON | N22.16023 E113.88795 | 66 m | 0:00:19 | 13 kph |
| 14/11/2016 13:19 | ON | N22.16089 E113.88788 | 74 m | 0:00:21 | 13 kph |
| 14/11/2016 13:20 | ON | N22.16146 E113.88783 | 64 m | 0:00:18 | 13 kph |
| 14/11/2016 13:20 | ON | N22.16215 E113.88791 | 77 m | 0:00:21 | 13 kph |
| 14/11/2016 13:20 | ON | N22.16267 E113.88794 | 58 m | 0:00:16 | 13 kph |
| 14/11/2016 13:21 | ON | N22.16322 E113.88792 | 62 m | 0:00:17 | 13 kph |
| 14/11/2016 13:21 | ON | N22.16384 E113.88791 | 68 m | 0:00:19 | 13 kph |
| 14/11/2016 13:21 | ON | N22.16434 E113.88799 | 57 m | 0:00:15 | 14 kph |
| 14/11/2016 13:21 | ON | N22.16493 E113.88804 | 66 m | 0:00:18 | 13 kph |
| 14/11/2016 13:22 | ON | N22.16575 E113.88804 | 91 m | 0:00:25 | 13 kph |
| 14/11/2016 13:22 | ON | N22.16639 E113.88816 | 73 m | 0:00:19 | 14 kph |
| 14/11/2016 13:23 | ON | N22.16711 E113.88825 | 81 m | 0:00:22 | 13 kph |
| 14/11/2016 13:23 | ON | N22.16780 E113.88817 | 78 m | 0:00:22 | 13 kph |
| 14/11/2016 13:23 | ON | N22.16846 E113.88818 | 73 m | 0:00:20 | 13 kph |
| 14/11/2016 13:24 | ON | N22.16905 E113.88817 | 65 m | 0:00:18 | 13 kph |
| 14/11/2016 13:24 | ON | N22.16970 E113.88819 | 73 m | 0:00:20 | 13 kph |
| 14/11/2016 13:24 | ON | N22.17036 E113.88815 | 73 m | 0:00:20 | 13 kph |
| 14/11/2016 13:24 | ON | N22.17084 E113.88809 | 54 m | 0:00:15 | 13 kph |
| 14/11/2016 13:25 | ON | N22.17140 E113.88804 | 63 m | 0:00:17 | 13 kph |
| 14/11/2016 13:25 | ON | N22.17201 E113.88808 | 69 m | 0:00:18 | 14 kph |
| 14/11/2016 13:25 | ON | N22.17261 E113.88822 | 68 m | 0:00:17 | 14 kph |
| 14/11/2016 13:26 | ON | N22.17320 E113.88828 | 66 m | 0:00:17 | 14 kph |
| 14/11/2016 13:26 | ON | N22.17384 E113.88827 | 72 m | 0:00:19 | 14 kph |
| 14/11/2016 13:26 | ON | N22.17451 E113.88827 | 75 m | 0:00:19 | 14 kph |
| 14/11/2016 13:27 | ON | N22.17514 E113.88831 | 70 m | 0:00:18 | 14 kph |
| 14/11/2016 13:27 | ON | N22.17567 E113.88833 | 59 m | 0:00:15 | 14 kph |
| 14/11/2016 13:27 | ON | N22.17631 E113.88841 | 71 m | 0:00:18 | 14 kph |
| 14/11/2016 13:27 | ON | N22.17686 E113.88843 | 62 m | 0:00:16 | 14 kph |
| 14/11/2016 13:28 | ON | N22.17749 E113.88839 | 69 m | 0:00:18 | 14 kph |
| 14/11/2016 13:28 | ON | N22.17817 E113.88837 | 76 m | 0:00:20 | 14 kph |
| 14/11/2016 13:28 | ON | N22.17899 E113.88838 | 91 m | 0:00:23 | 14 kph |
| 14/11/2016 13:29 | ON | N22.17979 E113.88833 | 90 m | 0:00:23 | 14 kph |
| 14/11/2016 13:29 | ON | N22.18045 E113.88832 | 73 m | 0:00:19 | 14 kph |
| 14/11/2016 13:29 | ON | N22.18124 E113.88833 | 87 m | 0:00:22 | 14 kph |
| 14/11/2016 13:30 | ON | N22.18199 E113.88834 | 83 m | 0:00:21 | 14 kph |
| 14/11/2016 13:30 | ON | N22.18267 E113.88837 | 76 m | 0:00:19 | 14 kph |
| 14/11/2016 13:30 | ON | N22.18332 E113.88839 | 73 m | 0:00:18 | 15 kph |
| 14/11/2016 13:31 | ON | N22.18395 E113.88844 | 70 m | 0:00:17 | 15 kph |
| 14/11/2016 13:31 | ON | N22.18457 E113.88848 | 70 m | 0:00:17 | 15 kph |
| 14/11/2016 13:31 | ON | N22.18530 E113.88849 | 81 m | 0:00:20 | 14 kph |
| 14/11/2016 13:32 | ON | N22.18605 E113.88855 | 84 m | 0:00:20 | 15 kph |
| 14/11/2016 13:32 | ON | N22.18663 E113.88856 | 65 m | 0:00:16 | 15 kph |
| 14/11/2016 13:32 | ON | N22.18750 E113.88851 | 97 m | 0:00:24 | 15 kph |
| 14/11/2016 13:33 | ON | N22.18828 E113.88850 | 86 m | 0:00:21 | 15 kph |
| 14/11/2016 13:33 | ON | N22.18883 E113.88851 | 62 m | 0:00:15 | 15 kph |
| 14/11/2016 13:33 | ON | N22.18940 E113.88853 | 63 m | 0:00:15 | 15 kph |
| 14/11/2016 13:33 | ON | N22.19003 E113.88853 | 71 m | 0:00:17 | 15 kph |
| 14/11/2016 13:34 | ON | N22.19082 E113.88858 | 88 m | 0:00:21 | 15 kph |
| 14/11/2016 13:34 | ON | N22.19131 E113.88864 | 55 m | 0:00:13 | 15 kph |
| 14/11/2016 13:34 | ON | N22.19206 E113.88869 | 84 m | 0:00:20 | 15 kph |
| 14/11/2016 13:35 | ON | N22.19274 E113.88867 | 75 m | 0:00:18 | 15 kph |
| 14/11/2016 13:35 | ON | N22.19338 E113.88877 | 73 m | 0:00:17 | 15 kph |
| 14/11/2016 13:35 | ON | N22.19418 E113.88904 | 93 m | 0:00:21 | 16 kph |
| 14/11/2016 13:36 | ON | N22.19478 E113.88921 | 69 m | 0:00:16 | 16 kph |
| 14/11/2016 13:36 | ON | N22.19531 E113.88923 | 58 m | 0:00:14 | 15 kph |
| 14/11/2016 13:36 | ON | N22.19592 E113.88915 | 69 m | 0:00:17 | 15 kph |
| 14/11/2016 13:36 | ON | N22.19647 E113.88908 | 61 m | 0:00:15 | 15 kph |
| 14/11/2016 13:37 | ON | N22.19703 E113.88905 | 62 m | 0:00:15 | 15 kph |

## Appendix I. (cont'd)

| Date & Time | EFFORT | Position | Leg Length | Leg Time | Leg Speed |
|---|---|---|---|---|---|
| 14/11/2016 13:37 | ON | N22.19755 E113.88900 | 58 m | 0:00:14 | 15 kph |
| 14/11/2016 13:37 | ON | N22.19822 E113.88896 | 75 m | 0:00:18 | 15 kph |
| 14/11/2016 13:37 | ON | N22.19901 E113.88898 | 88 m | 0:00:21 | 15 kph |
| 14/11/2016 13:38 | ON | N22.19966 E113.88897 | 72 m | 0:00:17 | 15 kph |
| 14/11/2016 13:38 | ON | N22.20038 E113.88893 | 80 m | 0:00:19 | 15 kph |
| 14/11/2016 13:38 | ON | N22.20113 E113.88885 | 83 m | 0:00:20 | 15 kph |
| 14/11/2016 13:39 | ON | N22.20188 E113.88877 | 84 m | 0:00:20 | 15 kph |
| 14/11/2016 13:39 | ON | N22.20261 E113.88866 | 83 m | 0:00:20 | 15 kph |
| 14/11/2016 13:39 | ON | N22.20341 E113.88857 | 89 m | 0:00:21 | 15 kph |
| 14/11/2016 13:40 | ON | N22.20426 E113.88842 | 96 m | 0:00:23 | 15 kph |
| 14/11/2016 13:40 | ON | N22.20513 E113.88819 | 99 m | 0:00:24 | 15 kph |
| 14/11/2016 13:41 | ON | N22.20594 E113.88801 | 92 m | 0:00:22 | 15 kph |
| 14/11/2016 13:41 | ON | N22.20677 E113.88793 | 93 m | 0:00:22 | 15 kph |
| 14/11/2016 13:41 | ON | N22.20766 E113.88791 | 99 m | 0:00:23 | 15 kph |
| 14/11/2016 13:42 | ON | N22.20847 E113.88789 | 90 m | 0:00:21 | 15 kph |
| 14/11/2016 13:42 | ON | N22.20944 E113.88768 | 110 m | 0:00:26 | 15 kph |
| 14/11/2016 13:42 | ON | N22.21018 E113.88759 | 83 m | 0:00:20 | 15 kph |
| 14/11/2016 13:43 | ON | N22.21097 E113.88780 | 91 m | 0:00:21 | 16 kph |
| 14/11/2016 13:43 | ON | N22.21189 E113.88797 | 103 m | 0:00:24 | 16 kph |
| 14/11/2016 13:44 | ON | N22.21278 E113.88799 | 99 m | 0:00:23 | 16 kph |
| 14/11/2016 13:44 | ON | N22.21371 E113.88800 | 104 m | 0:00:24 | 16 kph |
| 14/11/2016 13:44 | ON | N22.21422 E113.88778 | 61 m | 0:00:16 | 14 kph |
| 14/11/2016 13:44 | ON | N22.21423 E113.88735 | 44 m | 0:00:14 | 11 kph |
| 14/11/2016 13:45 | ON | N22.21391 E113.88710 | 44 m | 0:00:13 | 12 kph |
| 14/11/2016 13:45 | ON | N22.21347 E113.88674 | 61 m | 0:00:16 | 14 kph |
| 14/11/2016 13:45 | ON | N22.21305 E113.88628 | 66 m | 0:00:17 | 14 kph |
| 14/11/2016 13:45 | ON | N22.21274 E113.88583 | 57 m | 0:00:15 | 14 kph |
| 14/11/2016 13:46 | ON | N22.21254 E113.88544 | 46 m | 0:00:12 | 14 kph |
| 14/11/2016 13:46 | ON | N22.21227 E113.88488 | 65 m | 0:00:17 | 14 kph |
| 14/11/2016 13:46 | ON | N22.21187 E113.88419 | 84 m | 0:00:22 | 14 kph |
| 14/11/2016 13:47 | ON | N22.21162 E113.88371 | 57 m | 0:00:15 | 14 kph |
| 14/11/2016 13:47 | ON | N22.21136 E113.88323 | 57 m | 0:00:15 | 14 kph |
| 14/11/2016 13:47 | ON | N22.21106 E113.88268 | 66 m | 0:00:17 | 14 kph |
| 14/11/2016 13:47 | ON | N22.21082 E113.88224 | 53 m | 0:00:14 | 14 kph |
| 14/11/2016 13:48 | ON | N22.21047 E113.88155 | 81 m | 0:00:21 | 14 kph |
| 14/11/2016 13:48 | ON | N22.21013 E113.88098 | 70 m | 0:00:18 | 14 kph |
| 14/11/2016 13:48 | ON | N22.20981 E113.88028 | 81 m | 0:00:21 | 14 kph |
| 14/11/2016 13:49 | ON | N22.20958 E113.87970 | 65 m | 0:00:17 | 14 kph |
| 14/11/2016 13:49 | ON | N22.20940 E113.87917 | 58 m | 0:00:15 | 14 kph |
| 14/11/2016 13:49 | ON | N22.20922 E113.87864 | 58 m | 0:00:15 | 14 kph |
| 14/11/2016 13:49 | ON | N22.20901 E113.87800 | 70 m | 0:00:18 | 14 kph |
| 14/11/2016 13:50 | ON | N22.20872 E113.87761 | 51 m | 0:00:14 | 13 kph |
| 14/11/2016 13:50 | ON | N22.20824 E113.87755 | 54 m | 0:00:15 | 13 kph |
| 14/11/2016 13:50 | ON | N22.20761 E113.87750 | 71 m | 0:00:18 | 14 kph |
| 14/11/2016 13:51 | ON | N22.20686 E113.87746 | 84 m | 0:00:21 | 14 kph |
| 14/11/2016 13:51 | ON | N22.20608 E113.87748 | 87 m | 0:00:22 | 14 kph |
| 14/11/2016 13:51 | ON | N22.20540 E113.87748 | 75 m | 0:00:19 | 14 kph |
| 14/11/2016 13:52 | ON | N22.20470 E113.87749 | 79 m | 0:00:20 | 14 kph |
| 14/11/2016 13:52 | ON | N22.20427 E113.87749 | 47 m | 0:00:12 | 14 kph |
| 14/11/2016 13:52 | ON | N22.20379 E113.87750 | 54 m | 0:00:14 | 14 kph |
| 14/11/2016 13:52 | ON | N22.20302 E113.87752 | 86 m | 0:00:22 | 14 kph |
| 14/11/2016 13:53 | ON | N22.20260 E113.87751 | 46 m | 0:00:14 | 12 kph |
| 14/11/2016 13:53 | OFF | N22.20231 E113.87744 | 33 m | 0:00:17 | 7 kph |
| 14/11/2016 13:53 | OFF | N22.20226 E113.87710 | 36 m | 0:00:18 | 7 kph |
| 14/11/2016 13:53 | OFF | N22.20242 E113.87659 | 55 m | 0:00:19 | 10 kph |
| 14/11/2016 13:54 | OFF | N22.20268 E113.87605 | 62 m | 0:00:20 | 11 kph |
| 14/11/2016 13:54 | OFF | N22.20303 E113.87575 | 50 m | 0:00:20 | 9 kph |
| 14/11/2016 13:54 | OFF | N22.20339 E113.87587 | 42 m | 0:00:16 | 9 kph |
| 14/11/2016 13:55 | OFF | N22.20377 E113.87612 | 50 m | 0:00:18 | 10 kph |
| 14/11/2016 13:55 | OFF | N22.20420 E113.87629 | 50 m | 0:00:19 | 10 kph |
| 14/11/2016 13:55 | OFF | N22.20452 E113.87634 | 35 m | 0:00:15 | 9 kph |
| 14/11/2016 13:56 | OFF | N22.20485 E113.87640 | 38 m | 0:00:23 | 6 kph |
| 14/11/2016 13:56 | OFF | N22.20497 E113.87642 | 14 m | 0:00:11 | 5 kph |
| 14/11/2016 13:56 | OFF | N22.20517 E113.87646 | 22 m | 0:00:15 | 5 kph |

## Appendix I. (cont'd)

| Date & Time | EFFORT | Position | Leg Length | Leg Time | Leg Speed |
|---|---|---|---|---|---|
| 14/11/2016 13:57 | OFF | N22.20585 E113.87667 | 9 m | 0:00:13 | 3 kph |
| 14/11/2016 13:58 | OFF | N22.20594 E113.87672 | 12 m | 0:00:18 | 2 kph |
| 14/11/2016 13:58 | OFF | N22.20613 E113.87675 | 21 m | 0:00:19 | 4 kph |
| 14/11/2016 13:58 | OFF | N22.20648 E113.87678 | 39 m | 0:00:18 | 8 kph |
| 14/11/2016 13:59 | OFF | N22.20686 E113.87676 | 43 m | 0:00:19 | 8 kph |
| 14/11/2016 13:59 | OFF | N22.20717 E113.87672 | 35 m | 0:00:23 | 5 kph |
| 14/11/2016 13:59 | OFF | N22.20737 E113.87670 | 22 m | 0:00:21 | 4 kph |
| 14/11/2016 14:00 | OFF | N22.20749 E113.87668 | 13 m | 0:00:17 | 3 kph |
| 14/11/2016 14:00 | OFF | N22.20763 E113.87665 | 16 m | 0:00:15 | 4 kph |
| 14/11/2016 14:00 | OFF | N22.20797 E113.87654 | 39 m | 0:00:21 | 7 kph |
| 14/11/2016 14:01 | OFF | N22.20819 E113.87649 | 25 m | 0:00:20 | 4 kph |
| 14/11/2016 14:01 | OFF | N22.20831 E113.87647 | 14 m | 0:00:17 | 3 kph |
| 14/11/2016 14:01 | OFF | N22.20841 E113.87647 | 10 m | 0:00:14 | 3 kph |
| 14/11/2016 14:01 | OFF | N22.20849 E113.87646 | 9 m | 0:00:15 | 2 kph |
| 14/11/2016 14:02 | OFF | N22.20857 E113.87647 | 9 m | 0:00:17 | 2 kph |
| 14/11/2016 14:02 | OFF | N22.20863 E113.87648 | 6 m | 0:00:12 | 2 kph |
| 14/11/2016 14:02 | OFF | N22.20868 E113.87648 | 6 m | 0:00:10 | 2 kph |
| 14/11/2016 14:02 | OFF | N22.20870 E113.87648 | 2 m | 0:00:03 | 3 kph |
| 14/11/2016 14:02 | OFF | N22.20880 E113.87654 | 13 m | 0:00:10 | 5 kph |
| 14/11/2016 14:02 | OFF | N22.20883 E113.87659 | 6 m | 0:00:04 | 5 kph |
| 14/11/2016 14:03 | OFF | N22.20875 E113.87680 | 23 m | 0:00:17 | 5 kph |
| 14/11/2016 14:03 | OFF | N22.20854 E113.87685 | 25 m | 0:00:13 | 7 kph |
| 14/11/2016 14:03 | OFF | N22.20830 E113.87684 | 26 m | 0:00:09 | 10 kph |
| 14/11/2016 14:03 | OFF | N22.20816 E113.87685 | 16 m | 0:00:05 | 12 kph |
| 14/11/2016 14:03 | OFF | N22.20767 E113.87695 | 56 m | 0:00:16 | 13 kph |
| 14/11/2016 14:04 | OFF | N22.20707 E113.87704 | 67 m | 0:00:18 | 13 kph |
| 14/11/2016 14:04 | OFF | N22.20658 E113.87714 | 56 m | 0:00:15 | 13 kph |
| 14/11/2016 14:04 | OFF | N22.20654 E113.87714 | 4 m | 0:00:01 | 14 kph |
| 14/11/2016 14:04 | OFF | N22.20601 E113.87722 | 60 m | 0:00:16 | 14 kph |
| 14/11/2016 14:04 | OFF | N22.20539 E113.87729 | 70 m | 0:00:19 | 13 kph |
| 14/11/2016 14:05 | ON | N22.20486 E113.87732 | 58 m | 0:00:16 | 13 kph |
| 14/11/2016 14:05 | ON | N22.20436 E113.87732 | 56 m | 0:00:15 | 13 kph |
| 14/11/2016 14:05 | ON | N22.20369 E113.87730 | 74 m | 0:00:20 | 13 kph |
| 14/11/2016 14:06 | ON | N22.20309 E113.87732 | 67 m | 0:00:18 | 13 kph |
| 14/11/2016 14:06 | ON | N22.20253 E113.87735 | 63 m | 0:00:17 | 13 kph |
| 14/11/2016 14:06 | ON | N22.20203 E113.87737 | 56 m | 0:00:15 | 13 kph |
| 14/11/2016 14:06 | ON | N22.20151 E113.87741 | 57 m | 0:00:15 | 14 kph |
| 14/11/2016 14:07 | ON | N22.20086 E113.87743 | 72 m | 0:00:19 | 14 kph |
| 14/11/2016 14:07 | ON | N22.20026 E113.87747 | 67 m | 0:00:18 | 13 kph |
| 14/11/2016 14:07 | ON | N22.19975 E113.87751 | 56 m | 0:00:15 | 14 kph |
| 14/11/2016 14:07 | ON | N22.19928 E113.87754 | 52 m | 0:00:14 | 13 kph |
| 14/11/2016 14:08 | ON | N22.19882 E113.87755 | 52 m | 0:00:14 | 13 kph |
| 14/11/2016 14:08 | ON | N22.19829 E113.87754 | 59 m | 0:00:16 | 13 kph |
| 14/11/2016 14:08 | ON | N22.19776 E113.87754 | 59 m | 0:00:16 | 13 kph |
| 14/11/2016 14:08 | ON | N22.19729 E113.87757 | 52 m | 0:00:14 | 13 kph |
| 14/11/2016 14:09 | ON | N22.19652 E113.87763 | 86 m | 0:00:23 | 14 kph |
| 14/11/2016 14:09 | ON | N22.19587 E113.87772 | 73 m | 0:00:19 | 14 kph |
| 14/11/2016 14:09 | ON | N22.19519 E113.87777 | 76 m | 0:00:20 | 14 kph |
| 14/11/2016 14:10 | ON | N22.19446 E113.87788 | 82 m | 0:00:21 | 14 kph |
| 14/11/2016 14:10 | ON | N22.19389 E113.87793 | 64 m | 0:00:17 | 14 kph |
| 14/11/2016 14:10 | ON | N22.19334 E113.87795 | 61 m | 0:00:16 | 14 kph |
| 14/11/2016 14:11 | ON | N22.19266 E113.87800 | 76 m | 0:00:20 | 14 kph |
| 14/11/2016 14:11 | ON | N22.19212 E113.87804 | 61 m | 0:00:16 | 14 kph |
| 14/11/2016 14:11 | ON | N22.19139 E113.87808 | 81 m | 0:00:21 | 14 kph |
| 14/11/2016 14:12 | ON | N22.19074 E113.87808 | 72 m | 0:00:19 | 14 kph |
| 14/11/2016 14:12 | ON | N22.18988 E113.87812 | 96 m | 0:00:25 | 14 kph |
| 14/11/2016 14:12 | ON | N22.18922 E113.87818 | 74 m | 0:00:19 | 14 kph |
| 14/11/2016 14:13 | ON | N22.18842 E113.87820 | 89 m | 0:00:23 | 14 kph |
| 14/11/2016 14:13 | ON | N22.18786 E113.87819 | 62 m | 0:00:16 | 14 kph |
| 14/11/2016 14:13 | ON | N22.18716 E113.87819 | 78 m | 0:00:20 | 14 kph |
| 14/11/2016 14:14 | ON | N22.18642 E113.87820 | 83 m | 0:00:21 | 14 kph |
| 14/11/2016 14:14 | ON | N22.18578 E113.87820 | 71 m | 0:00:18 | 14 kph |
| 14/11/2016 14:14 | ON | N22.18510 E113.87821 | 75 m | 0:00:19 | 14 kph |
| 14/11/2016 14:15 | ON | N22.18442 E113.87823 | 76 m | 0:00:19 | 14 kph |

## Appendix I. (cont'd)

| Date & Time | EFFORT | Position | Leg Length | Leg Time | Leg Speed |
|---|---|---|---|---|---|
| 14/11/2016 14:16 | ON | N22.18213 E113.87811 | 62 m | 0:00:16 | 14 kph |
| 14/11/2016 14:16 | ON | N22.18142 E113.87809 | 79 m | 0:00:20 | 14 kph |
| 14/11/2016 14:16 | ON | N22.18083 E113.87804 | 66 m | 0:00:17 | 14 kph |
| 14/11/2016 14:17 | ON | N22.18024 E113.87796 | 66 m | 0:00:17 | 14 kph |
| 14/11/2016 14:17 | ON | N22.17966 E113.87799 | 64 m | 0:00:16 | 14 kph |
| 14/11/2016 14:17 | ON | N22.17919 E113.87803 | 53 m | 0:00:13 | 15 kph |
| 14/11/2016 14:17 | ON | N22.17853 E113.87803 | 73 m | 0:00:18 | 15 kph |
| 14/11/2016 14:18 | ON | N22.17795 E113.87805 | 64 m | 0:00:16 | 15 kph |
| 14/11/2016 14:18 | ON | N22.17722 E113.87807 | 82 m | 0:00:20 | 15 kph |
| 14/11/2016 14:18 | ON | N22.17661 E113.87802 | 68 m | 0:00:17 | 14 kph |
| 14/11/2016 14:19 | ON | N22.17606 E113.87801 | 61 m | 0:00:15 | 15 kph |
| 14/11/2016 14:19 | ON | N22.17551 E113.87800 | 61 m | 0:00:15 | 15 kph |
| 14/11/2016 14:19 | ON | N22.17489 E113.87797 | 69 m | 0:00:17 | 15 kph |
| 14/11/2016 14:19 | ON | N22.17430 E113.87796 | 66 m | 0:00:16 | 15 kph |
| 14/11/2016 14:20 | ON | N22.17374 E113.87803 | 63 m | 0:00:15 | 15 kph |
| 14/11/2016 14:20 | ON | N22.17313 E113.87819 | 70 m | 0:00:16 | 16 kph |
| 14/11/2016 14:20 | ON | N22.17245 E113.87833 | 77 m | 0:00:18 | 15 kph |
| 14/11/2016 14:20 | ON | N22.17185 E113.87838 | 67 m | 0:00:16 | 15 kph |
| 14/11/2016 14:21 | ON | N22.17109 E113.87839 | 85 m | 0:00:20 | 15 kph |
| 14/11/2016 14:21 | ON | N22.17041 E113.87840 | 76 m | 0:00:18 | 15 kph |
| 14/11/2016 14:21 | ON | N22.16974 E113.87853 | 75 m | 0:00:17 | 16 kph |
| 14/11/2016 14:22 | ON | N22.16921 E113.87859 | 60 m | 0:00:14 | 15 kph |
| 14/11/2016 14:22 | ON | N22.16852 E113.87850 | 78 m | 0:00:19 | 15 kph |
| 14/11/2016 14:22 | ON | N22.16785 E113.87831 | 76 m | 0:00:19 | 14 kph |
| 14/11/2016 14:22 | ON | N22.16737 E113.87830 | 54 m | 0:00:13 | 15 kph |
| 14/11/2016 14:23 | ON | N22.16676 E113.87828 | 68 m | 0:00:16 | 15 kph |
| 14/11/2016 14:23 | ON | N22.16623 E113.87822 | 59 m | 0:00:14 | 15 kph |
| 14/11/2016 14:23 | ON | N22.16571 E113.87816 | 59 m | 0:00:14 | 15 kph |
| 14/11/2016 14:23 | ON | N22.16514 E113.87810 | 63 m | 0:00:15 | 15 kph |
| 14/11/2016 14:24 | ON | N22.16467 E113.87801 | 54 m | 0:00:13 | 15 kph |
| 14/11/2016 14:24 | ON | N22.16404 E113.87791 | 71 m | 0:00:17 | 15 kph |
| 14/11/2016 14:24 | ON | N22.16339 E113.87781 | 72 m | 0:00:17 | 15 kph |
| 14/11/2016 14:24 | ON | N22.16278 E113.87773 | 68 m | 0:00:16 | 15 kph |
| 14/11/2016 14:25 | ON | N22.16221 E113.87766 | 64 m | 0:00:15 | 15 kph |
| 14/11/2016 14:25 | ON | N22.16159 E113.87762 | 69 m | 0:00:16 | 16 kph |
| 14/11/2016 14:25 | ON | N22.16151 E113.87762 | 9 m | 0:00:02 | 16 kph |
| 14/11/2016 14:25 | ON | N22.16102 E113.87755 | 55 m | 0:00:13 | 15 kph |
| 14/11/2016 14:26 | ON | N22.16043 E113.87740 | 67 m | 0:00:16 | 15 kph |
| 14/11/2016 14:26 | ON | N22.15978 E113.87732 | 73 m | 0:00:17 | 15 kph |
| 14/11/2016 14:26 | ON | N22.15974 E113.87732 | 4 m | 0:00:01 | 16 kph |
| 14/11/2016 14:26 | ON | N22.15959 E113.87732 | 18 m | 0:00:04 | 16 kph |
| 14/11/2016 14:26 | ON | N22.15947 E113.87733 | 13 m | 0:00:03 | 16 kph |
| 14/11/2016 14:26 | ON | N22.15879 E113.87739 | 76 m | 0:00:17 | 16 kph |
| 14/11/2016 14:27 | ON | N22.15808 E113.87735 | 79 m | 0:00:18 | 16 kph |
| 14/11/2016 14:27 | ON | N22.15800 E113.87734 | 9 m | 0:00:02 | 16 kph |
| 14/11/2016 14:27 | ON | N22.15757 E113.87731 | 48 m | 0:00:11 | 16 kph |
| 14/11/2016 14:27 | ON | N22.15694 E113.87729 | 71 m | 0:00:16 | 16 kph |
| 14/11/2016 14:27 | ON | N22.15639 E113.87727 | 61 m | 0:00:14 | 16 kph |
| 14/11/2016 14:27 | ON | N22.15576 E113.87724 | 71 m | 0:00:16 | 16 kph |
| 14/11/2016 14:28 | ON | N22.15527 E113.87701 | 59 m | 0:00:16 | 13 kph |
| 14/11/2016 14:28 | ON | N22.15520 E113.87662 | 42 m | 0:00:15 | 10 kph |
| 14/11/2016 14:28 | ON | N22.15549 E113.87612 | 60 m | 0:00:20 | 11 kph |
| 14/11/2016 14:29 | ON | N22.15566 E113.87563 | 54 m | 0:00:18 | 11 kph |
| 14/11/2016 14:29 | ON | N22.15580 E113.87514 | 53 m | 0:00:17 | 11 kph |
| 14/11/2016 14:29 | ON | N22.15601 E113.87464 | 57 m | 0:00:18 | 11 kph |
| 14/11/2016 14:30 | ON | N22.15628 E113.87409 | 64 m | 0:00:20 | 12 kph |
| 14/11/2016 14:30 | ON | N22.15658 E113.87350 | 69 m | 0:00:21 | 12 kph |
| 14/11/2016 14:30 | ON | N22.15693 E113.87286 | 76 m | 0:00:23 | 12 kph |
| 14/11/2016 14:31 | ON | N22.15729 E113.87228 | 72 m | 0:00:22 | 12 kph |
| 14/11/2016 14:31 | ON | N22.15765 E113.87158 | 82 m | 0:00:25 | 12 kph |
| 14/11/2016 14:31 | ON | N22.15783 E113.87104 | 59 m | 0:00:18 | 12 kph |
| 14/11/2016 14:32 | ON | N22.15803 E113.87040 | 70 m | 0:00:21 | 12 kph |
| 14/11/2016 14:32 | ON | N22.15825 E113.86988 | 59 m | 0:00:18 | 12 kph |
| 14/11/2016 14:32 | ON | N22.15865 E113.86931 | 73 m | 0:00:22 | 12 kph |

## Appendix I. (cont'd)

| Date & Time | EFFORT | Position | Leg Length | Leg Time | Leg Speed |
|---|---|---|---|---|---|
| 14/11/2016 14:34 | ON | N22.16065 E113.86859 | 59 m | 0:00:17 | 13 kph |
| 14/11/2016 14:34 | ON | N22.16140 E113.86863 | 83 m | 0:00:23 | 13 kph |
| 14/11/2016 14:34 | ON | N22.16209 E113.86873 | 78 m | 0:00:21 | 13 kph |
| 14/11/2016 14:35 | ON | N22.16287 E113.86880 | 87 m | 0:00:24 | 13 kph |
| 14/11/2016 14:35 | ON | N22.16355 E113.86880 | 76 m | 0:00:21 | 13 kph |
| 14/11/2016 14:35 | ON | N22.16422 E113.86880 | 75 m | 0:00:21 | 13 kph |
| 14/11/2016 14:36 | ON | N22.16484 E113.86874 | 70 m | 0:00:20 | 13 kph |
| 14/11/2016 14:36 | ON | N22.16542 E113.86877 | 64 m | 0:00:18 | 13 kph |
| 14/11/2016 14:36 | ON | N22.16606 E113.86881 | 72 m | 0:00:20 | 13 kph |
| 14/11/2016 14:37 | ON | N22.16673 E113.86887 | 75 m | 0:00:21 | 13 kph |
| 14/11/2016 14:37 | ON | N22.16751 E113.86893 | 87 m | 0:00:24 | 13 kph |
| 14/11/2016 14:38 | ON | N22.16820 E113.86904 | 77 m | 0:00:21 | 13 kph |
| 14/11/2016 14:38 | ON | N22.16878 E113.86909 | 65 m | 0:00:18 | 13 kph |
| 14/11/2016 14:38 | ON | N22.16937 E113.86912 | 66 m | 0:00:18 | 13 kph |
| 14/11/2016 14:38 | ON | N22.16997 E113.86914 | 66 m | 0:00:18 | 13 kph |
| 14/11/2016 14:39 | ON | N22.17062 E113.86914 | 73 m | 0:00:20 | 13 kph |
| 14/11/2016 14:39 | ON | N22.17124 E113.86914 | 69 m | 0:00:19 | 13 kph |
| 14/11/2016 14:39 | ON | N22.17191 E113.86915 | 74 m | 0:00:20 | 13 kph |
| 14/11/2016 14:40 | ON | N22.17247 E113.86916 | 63 m | 0:00:17 | 13 kph |
| 14/11/2016 14:40 | ON | N22.17311 E113.86917 | 70 m | 0:00:19 | 13 kph |
| 14/11/2016 14:40 | ON | N22.17351 E113.86917 | 45 m | 0:00:12 | 13 kph |
| 14/11/2016 14:41 | ON | N22.17408 E113.86922 | 64 m | 0:00:17 | 14 kph |
| 14/11/2016 14:41 | ON | N22.17459 E113.86921 | 56 m | 0:00:15 | 13 kph |
| 14/11/2016 14:41 | ON | N22.17512 E113.86916 | 60 m | 0:00:16 | 13 kph |
| 14/11/2016 14:41 | ON | N22.17570 E113.86914 | 64 m | 0:00:17 | 14 kph |
| 14/11/2016 14:42 | ON | N22.17631 E113.86909 | 69 m | 0:00:18 | 14 kph |
| 14/11/2016 14:42 | ON | N22.17692 E113.86902 | 68 m | 0:00:18 | 14 kph |
| 14/11/2016 14:42 | ON | N22.17747 E113.86902 | 62 m | 0:00:16 | 14 kph |
| 14/11/2016 14:43 | ON | N22.17827 E113.86905 | 89 m | 0:00:23 | 14 kph |
| 14/11/2016 14:43 | ON | N22.17899 E113.86901 | 80 m | 0:00:21 | 14 kph |
| 14/11/2016 14:43 | ON | N22.17961 E113.86892 | 69 m | 0:00:18 | 14 kph |
| 14/11/2016 14:43 | ON | N22.18019 E113.86884 | 65 m | 0:00:17 | 14 kph |
| 14/11/2016 14:44 | ON | N22.18078 E113.86883 | 66 m | 0:00:17 | 14 kph |
| 14/11/2016 14:44 | ON | N22.18142 E113.86880 | 71 m | 0:00:18 | 14 kph |
| 14/11/2016 14:44 | ON | N22.18203 E113.86879 | 67 m | 0:00:17 | 14 kph |
| 14/11/2016 14:45 | ON | N22.18282 E113.86879 | 89 m | 0:00:22 | 14 kph |
| 14/11/2016 14:45 | ON | N22.18339 E113.86878 | 64 m | 0:00:16 | 14 kph |
| 14/11/2016 14:45 | ON | N22.18404 E113.86876 | 72 m | 0:00:18 | 14 kph |
| 14/11/2016 14:46 | ON | N22.18483 E113.86872 | 88 m | 0:00:22 | 14 kph |
| 14/11/2016 14:46 | ON | N22.18558 E113.86869 | 84 m | 0:00:21 | 14 kph |
| 14/11/2016 14:46 | ON | N22.18635 E113.86866 | 86 m | 0:00:21 | 15 kph |
| 14/11/2016 14:47 | ON | N22.18704 E113.86863 | 77 m | 0:00:19 | 15 kph |
| 14/11/2016 14:47 | ON | N22.18781 E113.86859 | 86 m | 0:00:21 | 15 kph |
| 14/11/2016 14:47 | ON | N22.18850 E113.86855 | 77 m | 0:00:19 | 15 kph |
| 14/11/2016 14:48 | ON | N22.18949 E113.86851 | 110 m | 0:00:27 | 15 kph |
| 14/11/2016 14:48 | ON | N22.19034 E113.86848 | 94 m | 0:00:23 | 15 kph |
| 14/11/2016 14:49 | ON | N22.19121 E113.86838 | 98 m | 0:00:24 | 15 kph |
| 14/11/2016 14:49 | ON | N22.19199 E113.86831 | 87 m | 0:00:21 | 15 kph |
| 14/11/2016 14:49 | ON | N22.19255 E113.86829 | 63 m | 0:00:15 | 15 kph |
| 14/11/2016 14:50 | ON | N22.19331 E113.86834 | 84 m | 0:00:20 | 15 kph |
| 14/11/2016 14:50 | ON | N22.19397 E113.86833 | 74 m | 0:00:18 | 15 kph |
| 14/11/2016 14:50 | ON | N22.19468 E113.86836 | 80 m | 0:00:19 | 15 kph |
| 14/11/2016 14:50 | ON | N22.19532 E113.86843 | 71 m | 0:00:17 | 15 kph |
| 14/11/2016 14:51 | ON | N22.19600 E113.86845 | 75 m | 0:00:18 | 15 kph |
| 14/11/2016 14:51 | ON | N22.19664 E113.86850 | 72 m | 0:00:17 | 15 kph |
| 14/11/2016 14:51 | ON | N22.19712 E113.86852 | 54 m | 0:00:13 | 15 kph |
| 14/11/2016 14:51 | ON | N22.19772 E113.86851 | 66 m | 0:00:16 | 15 kph |
| 14/11/2016 14:52 | ON | N22.19828 E113.86848 | 62 m | 0:00:15 | 15 kph |
| 14/11/2016 14:52 | ON | N22.19896 E113.86843 | 76 m | 0:00:18 | 15 kph |
| 14/11/2016 14:52 | ON | N22.19972 E113.86839 | 85 m | 0:00:20 | 15 kph |
| 14/11/2016 14:53 | ON | N22.20043 E113.86833 | 79 m | 0:00:19 | 15 kph |
| 14/11/2016 14:53 | ON | N22.20117 E113.86818 | 84 m | 0:00:21 | 14 kph |
| 14/11/2016 14:53 | ON | N22.20149 E113.86781 | 52 m | 0:00:14 | 13 kph |
| 14/11/2016 14:54 | ON | N22.20153 E113.86727 | 56 m | 0:00:15 | 13 kph |

## Appendix I. (cont'd)

| Date & Time | EFFORT | Position | Leg Length | Leg Time | Leg Speed |
|---|---|---|---|---|---|
| 14/11/2016 14:55 | ON | N22.20095 E113.86458 | 62 m | 0:00:15 | 15 kph |
| 14/11/2016 14:55 | ON | N22.20085 E113.86394 | 67 m | 0:00:16 | 15 kph |
| 14/11/2016 14:55 | ON | N22.20074 E113.86312 | 85 m | 0:00:20 | 15 kph |
| 14/11/2016 14:56 | ON | N22.20072 E113.86235 | 80 m | 0:00:19 | 15 kph |
| 14/11/2016 14:56 | ON | N22.20064 E113.86174 | 63 m | 0:00:15 | 15 kph |
| 14/11/2016 14:56 | ON | N22.20050 E113.86073 | 105 m | 0:00:25 | 15 kph |
| 14/11/2016 14:57 | ON | N22.20040 E113.85973 | 104 m | 0:00:25 | 15 kph |
| 14/11/2016 14:57 | ON | N22.20014 E113.85882 | 99 m | 0:00:24 | 15 kph |
| 14/11/2016 14:57 | ON | N22.19971 E113.85824 | 76 m | 0:00:19 | 14 kph |
| 14/11/2016 14:58 | ON | N22.19907 E113.85811 | 73 m | 0:00:18 | 15 kph |
| 14/11/2016 14:58 | ON | N22.19821 E113.85823 | 97 m | 0:00:23 | 15 kph |
| 14/11/2016 14:58 | ON | N22.19753 E113.85831 | 75 m | 0:00:18 | 15 kph |
| 14/11/2016 14:59 | ON | N22.19687 E113.85838 | 75 m | 0:00:18 | 15 kph |
| 14/11/2016 14:59 | ON | N22.19617 E113.85844 | 77 m | 0:00:19 | 15 kph |
| 14/11/2016 14:59 | ON | N22.19541 E113.85850 | 85 m | 0:00:21 | 15 kph |
| 14/11/2016 15:00 | ON | N22.19480 E113.85860 | 69 m | 0:00:17 | 15 kph |
| 14/11/2016 15:00 | ON | N22.19404 E113.85871 | 86 m | 0:00:21 | 15 kph |
| 14/11/2016 15:00 | ON | N22.19327 E113.85873 | 85 m | 0:00:21 | 15 kph |
| 14/11/2016 15:01 | ON | N22.19269 E113.85875 | 65 m | 0:00:16 | 15 kph |
| 14/11/2016 15:01 | ON | N22.19215 E113.85881 | 60 m | 0:00:15 | 14 kph |
| 14/11/2016 15:01 | ON | N22.19154 E113.85887 | 69 m | 0:00:17 | 15 kph |
| 14/11/2016 15:01 | ON | N22.19081 E113.85891 | 81 m | 0:00:20 | 15 kph |
| 14/11/2016 15:02 | ON | N22.19002 E113.85903 | 89 m | 0:00:22 | 15 kph |
| 14/11/2016 15:02 | ON | N22.18941 E113.85899 | 68 m | 0:00:17 | 14 kph |
| 14/11/2016 15:02 | ON | N22.18871 E113.85897 | 77 m | 0:00:19 | 15 kph |
| 14/11/2016 15:03 | ON | N22.18795 E113.85904 | 86 m | 0:00:21 | 15 kph |
| 14/11/2016 15:03 | ON | N22.18729 E113.85904 | 74 m | 0:00:18 | 15 kph |
| 14/11/2016 15:03 | ON | N22.18682 E113.85901 | 52 m | 0:00:13 | 14 kph |
| 14/11/2016 15:03 | ON | N22.18638 E113.85900 | 48 m | 0:00:12 | 15 kph |
| 14/11/2016 15:04 | ON | N22.18569 E113.85900 | 78 m | 0:00:19 | 15 kph |
| 14/11/2016 15:04 | ON | N22.18483 E113.85901 | 95 m | 0:00:23 | 15 kph |
| 14/11/2016 15:04 | ON | N22.18416 E113.85902 | 75 m | 0:00:18 | 15 kph |
| 14/11/2016 15:05 | ON | N22.18341 E113.85904 | 83 m | 0:00:20 | 15 kph |
| 14/11/2016 15:05 | ON | N22.18289 E113.85902 | 58 m | 0:00:14 | 15 kph |
| 14/11/2016 15:05 | ON | N22.18229 E113.85897 | 67 m | 0:00:16 | 15 kph |
| 14/11/2016 15:06 | ON | N22.18168 E113.85896 | 68 m | 0:00:16 | 15 kph |
| 14/11/2016 15:06 | ON | N22.18100 E113.85899 | 76 m | 0:00:18 | 15 kph |
| 14/11/2016 15:06 | ON | N22.18032 E113.85901 | 76 m | 0:00:18 | 15 kph |
| 14/11/2016 15:06 | ON | N22.17963 E113.85903 | 77 m | 0:00:18 | 15 kph |
| 14/11/2016 15:07 | ON | N22.17902 E113.85906 | 68 m | 0:00:16 | 15 kph |
| 14/11/2016 15:07 | ON | N22.17844 E113.85912 | 65 m | 0:00:15 | 15 kph |
| 14/11/2016 15:07 | ON | N22.17787 E113.85917 | 64 m | 0:00:15 | 15 kph |
| 14/11/2016 15:08 | ON | N22.17725 E113.85917 | 69 m | 0:00:16 | 16 kph |
| 14/11/2016 15:08 | ON | N22.17667 E113.85914 | 64 m | 0:00:15 | 15 kph |
| 14/11/2016 15:08 | ON | N22.17606 E113.85906 | 69 m | 0:00:16 | 15 kph |
| 14/11/2016 15:08 | ON | N22.17534 E113.85898 | 81 m | 0:00:19 | 15 kph |
| 14/11/2016 15:09 | ON | N22.17449 E113.85890 | 95 m | 0:00:22 | 16 kph |
| 14/11/2016 15:09 | ON | N22.17383 E113.85882 | 73 m | 0:00:17 | 16 kph |
| 14/11/2016 15:09 | ON | N22.17330 E113.85873 | 60 m | 0:00:14 | 15 kph |
| 14/11/2016 15:10 | ON | N22.17260 E113.85867 | 78 m | 0:00:18 | 16 kph |
| 14/11/2016 15:10 | ON | N22.17201 E113.85868 | 66 m | 0:00:15 | 16 kph |
| 14/11/2016 15:10 | ON | N22.17130 E113.85870 | 79 m | 0:00:18 | 16 kph |
| 14/11/2016 15:10 | ON | N22.17068 E113.85864 | 69 m | 0:00:16 | 16 kph |
| 14/11/2016 15:11 | ON | N22.17010 E113.85856 | 65 m | 0:00:15 | 16 kph |
| 14/11/2016 15:11 | ON | N22.16948 E113.85846 | 70 m | 0:00:16 | 16 kph |
| 14/11/2016 15:11 | ON | N22.16892 E113.85841 | 62 m | 0:00:14 | 16 kph |
| 14/11/2016 15:11 | ON | N22.16849 E113.85837 | 48 m | 0:00:11 | 16 kph |
| 14/11/2016 15:12 | ON | N22.16770 E113.85826 | 89 m | 0:00:20 | 16 kph |
| 14/11/2016 15:12 | ON | N22.16696 E113.85814 | 83 m | 0:00:19 | 16 kph |
| 14/11/2016 15:12 | ON | N22.16663 E113.85787 | 47 m | 0:00:13 | 13 kph |
| 14/11/2016 15:12 | ON | N22.16653 E113.85737 | 53 m | 0:00:16 | 12 kph |
| 14/11/2016 15:13 | ON | N22.16662 E113.85683 | 57 m | 0:00:17 | 12 kph |
| 14/11/2016 15:13 | ON | N22.16693 E113.85629 | 65 m | 0:00:20 | 12 kph |
| 14/11/2016 15:13 | ON | N22.16733 E113.85572 | 74 m | 0:00:22 | 12 kph |

## Appendix I. (cont'd)

| Date & Time | EFFORT | Position | Leg Length | Leg Time | Leg Speed |
|---|---|---|---|---|---|
| 14/11/2016 15:15 | ON | N22.16842 E113.85312 | 79 m | 0:00:23 | 12 kph |
| 14/11/2016 15:15 | ON | N22.16867 E113.85260 | 61 m | 0:00:18 | 12 kph |
| 14/11/2016 15:15 | ON | N22.16889 E113.85225 | 44 m | 0:00:13 | 12 kph |
| 14/11/2016 15:16 | ON | N22.16922 E113.85178 | 60 m | 0:00:18 | 12 kph |
| 14/11/2016 15:16 | ON | N22.16955 E113.85123 | 68 m | 0:00:20 | 12 kph |
| 14/11/2016 15:16 | ON | N22.16986 E113.85068 | 65 m | 0:00:19 | 12 kph |
| 14/11/2016 15:17 | ON | N22.17009 E113.85026 | 51 m | 0:00:15 | 12 kph |
| 14/11/2016 15:17 | ON | N22.17039 E113.84977 | 61 m | 0:00:18 | 12 kph |
| 14/11/2016 15:17 | ON | N22.17081 E113.84913 | 81 m | 0:00:24 | 12 kph |
| 14/11/2016 15:18 | ON | N22.17107 E113.84874 | 49 m | 0:00:15 | 12 kph |
| 14/11/2016 15:18 | ON | N22.17154 E113.84864 | 53 m | 0:00:17 | 11 kph |
| 14/11/2016 15:18 | ON | N22.17224 E113.84861 | 78 m | 0:00:23 | 12 kph |
| 14/11/2016 15:19 | ON | N22.17290 E113.84871 | 74 m | 0:00:22 | 12 kph |
| 14/11/2016 15:19 | ON | N22.17339 E113.84877 | 55 m | 0:00:16 | 12 kph |
| 14/11/2016 15:19 | ON | N22.17395 E113.84878 | 62 m | 0:00:18 | 12 kph |
| 14/11/2016 15:19 | ON | N22.17450 E113.84883 | 62 m | 0:00:18 | 12 kph |
| 14/11/2016 15:20 | ON | N22.17513 E113.84887 | 71 m | 0:00:20 | 13 kph |
| 14/11/2016 15:20 | ON | N22.17571 E113.84891 | 65 m | 0:00:18 | 13 kph |
| 14/11/2016 15:20 | ON | N22.17633 E113.84892 | 69 m | 0:00:19 | 13 kph |
| 14/11/2016 15:21 | ON | N22.17689 E113.84893 | 62 m | 0:00:17 | 13 kph |
| 14/11/2016 15:21 | ON | N22.17748 E113.84894 | 66 m | 0:00:18 | 13 kph |
| 14/11/2016 15:21 | ON | N22.17804 E113.84897 | 63 m | 0:00:17 | 13 kph |
| 14/11/2016 15:22 | ON | N22.17874 E113.84899 | 78 m | 0:00:21 | 13 kph |
| 14/11/2016 15:22 | ON | N22.17923 E113.84897 | 55 m | 0:00:15 | 13 kph |
| 14/11/2016 15:22 | ON | N22.17976 E113.84897 | 59 m | 0:00:16 | 13 kph |
| 14/11/2016 15:22 | ON | N22.18040 E113.84901 | 71 m | 0:00:19 | 13 kph |
| 14/11/2016 15:23 | ON | N22.18080 E113.84904 | 44 m | 0:00:12 | 13 kph |
| 14/11/2016 15:23 | ON | N22.18151 E113.84909 | 79 m | 0:00:21 | 14 kph |
| 14/11/2016 15:23 | ON | N22.18215 E113.84910 | 72 m | 0:00:19 | 14 kph |
| 14/11/2016 15:24 | ON | N22.18263 E113.84913 | 53 m | 0:00:14 | 14 kph |
| 14/11/2016 15:24 | ON | N22.18313 E113.84920 | 56 m | 0:00:15 | 14 kph |
| 14/11/2016 15:24 | ON | N22.18378 E113.84926 | 73 m | 0:00:19 | 14 kph |
| 14/11/2016 15:24 | ON | N22.18430 E113.84927 | 58 m | 0:00:15 | 14 kph |
| 14/11/2016 15:25 | ON | N22.18482 E113.84928 | 57 m | 0:00:15 | 14 kph |
| 14/11/2016 15:25 | ON | N22.18544 E113.84928 | 69 m | 0:00:18 | 14 kph |
| 14/11/2016 15:25 | ON | N22.18610 E113.84933 | 74 m | 0:00:19 | 14 kph |
| 14/11/2016 15:25 | ON | N22.18662 E113.84938 | 58 m | 0:00:15 | 14 kph |
| 14/11/2016 15:26 | ON | N22.18714 E113.84944 | 58 m | 0:00:15 | 14 kph |
| 14/11/2016 15:26 | ON | N22.18784 E113.84950 | 78 m | 0:00:20 | 14 kph |
| 14/11/2016 15:26 | ON | N22.18848 E113.84952 | 71 m | 0:00:18 | 14 kph |
| 14/11/2016 15:27 | ON | N22.18915 E113.84962 | 76 m | 0:00:19 | 14 kph |
| 14/11/2016 15:27 | ON | N22.18975 E113.84965 | 67 m | 0:00:17 | 14 kph |
| 14/11/2016 15:27 | ON | N22.19040 E113.84966 | 72 m | 0:00:18 | 14 kph |
| 14/11/2016 15:27 | ON | N22.19094 E113.84967 | 60 m | 0:00:15 | 14 kph |
| 14/11/2016 15:28 | ON | N22.19153 E113.84968 | 66 m | 0:00:16 | 15 kph |
| 14/11/2016 15:28 | ON | N22.19208 E113.84968 | 61 m | 0:00:15 | 15 kph |
| 14/11/2016 15:28 | ON | N22.19256 E113.84967 | 53 m | 0:00:13 | 15 kph |
| 14/11/2016 15:28 | ON | N22.19297 E113.84986 | 50 m | 0:00:14 | 13 kph |

## Appendix II. Survey Effort Database in SWL (November 2016)

(Abbreviations: BEAU = Beaufort Sea State; P = Primary Line Effort; S = Secondary Line Effort)

| DATE | AREA | BEAU | EFFORT | SEASON | VESSEL | TYPE | P/S |
|---|---|---|---|---|---|---|---|
| 4-Nov-16 | SW LANTAU | 2 | 15.73 | AUTUMN | STANDARD36826 | HKCRP | P |
| 4-Nov-16 | SW LANTAU | 3 | 7.23 | AUTUMN | STANDARD36826 | HKCRP | P |
| 4-Nov-16 | SW LANTAU | 2 | 6.80 | AUTUMN | STANDARD36826 | HKCRP | S |
| 4-Nov-16 | SW LANTAU | 3 | 2.24 | AUTUMN | STANDARD36826 | HKCRP | S |
| 9-Nov-16 | SW LANTAU | 2 | 21.88 | AUTUMN | STANDARD36826 | HKCRP | P |
| 9-Nov-16 | SW LANTAU | 3 | 8.76 | AUTUMN | STANDARD36826 | HKCRP | P |
| 9-Nov-16 | SW LANTAU | 2 | 14.56 | AUTUMN | STANDARD36826 | HKCRP | S |
| 14-Nov-16 | SW LANTAU | 1 | 1.20 | AUTUMN | STANDARD36826 | HYD-HZMB | P |
| 14-Nov-16 | SW LANTAU | 2 | 52.60 | AUTUMN | STANDARD36826 | HYD-HZMB | P |
| 14-Nov-16 | SW LANTAU | 1 | 0.90 | AUTUMN | STANDARD36826 | HYD-HZMB | S |
| 14-Nov-16 | SW LANTAU | 2 | 15.67 | AUTUMN | STANDARD36826 | HYD-HZMB | S |
| 21-Nov-16 | SW LANTAU | 2 | 4.96 | AUTUMN | STANDARD36826 | HKCRP | P |
| 21-Nov-16 | SW LANTAU | 3 | 6.99 | AUTUMN | STANDARD36826 | HKCRP | P |
| 21-Nov-16 | SW LANTAU | 4 | 8.23 | AUTUMN | STANDARD36826 | HKCRP | P |
| 21-Nov-16 | SW LANTAU | 2 | 1.00 | AUTUMN | STANDARD36826 | HKCRP | S |
| 21-Nov-16 | SW LANTAU | 3 | 1.29 | AUTUMN | STANDARD36826 | HKCRP | S |
| 21-Nov-16 | SW LANTAU | 4 | 3.13 | AUTUMN | STANDARD36826 | HKCRP | S |

## Appendix III. Chinese White Dolphin Sighting Database in SWL (November 2016)

(Abberviations: STG# = Sighting Number; HRD SZ = Dolphin Herd Size; BEAU = Beaufort Sea State; PSD = Perpendicular Distance; ND = Not Determined; BOAT ASSOC. = Fishing Boat Association; P/S: Sighting Made on Primary/Secondary Lines)

| DATE | STG # | TIME | HRD SZ | AREA | BEAU | PSD | EFFORT | TYPE | NORTHING | EASTING | SEASON | BOAT ASSOC. | P/S |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9-Nov-16 | 4 | 1225 | 1 | SW LANTAU | 3 | ND | OFF | HKCRP | 806172 | 802404 | AUTUMN | NONE | |
| 14-Nov-16 | 3 | 1353 | 1 | SW LANTAU | 2 | 191 | ON | HYD-HZMB | 807129 | 805397 | AUTUMN | PURSE-SEINE | P |

## Appendix IV. Individual dolphins identified during HYD-HZMB and AFCD monitoring surveys in SWL waters in November 2016

| ID# | DATE | STG# | TYPE | AREA |
|---|---|---|---|---|
| SL05 | 09/11/16 | 4 | HKCRP | SW LANTAU |
| SL64 | 14/11/16 | 3 | HYD-HZMB | SW LANTAU |


Appendix V. Photographs of Identified Individual Dolphins in November 2016 in SWL waters