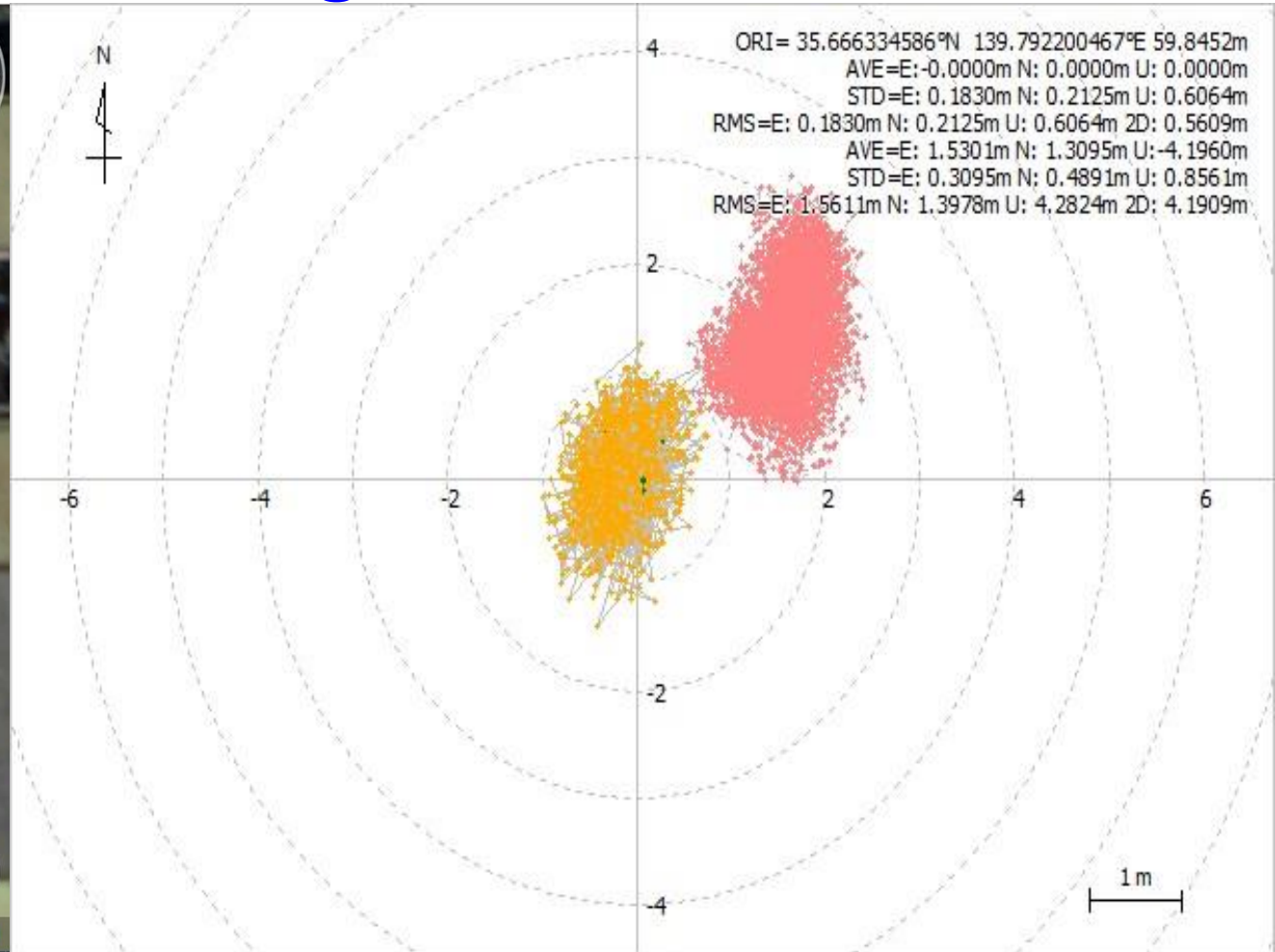


Training Course on GNSS

GNSS Training, Team No: 05

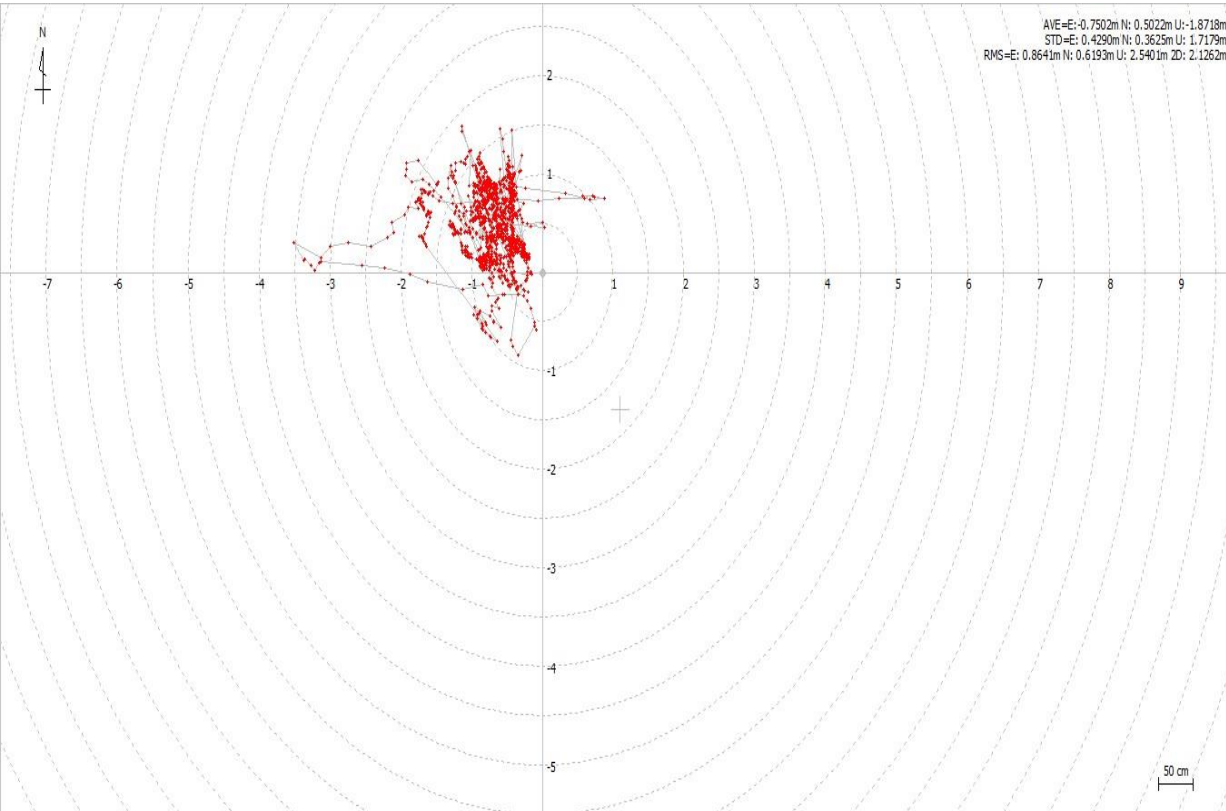
Team Members' Name	E-mail ID
Mr. Chetan Sharma	chetan.cvl@gmail.com
Mr. Sandip Dhungana	firefoxsandip@gmail.com
Mr. Bora Sreu	Sreu.bora@gmail.com
Mr. Thayukorn Prabamroong	thayukorn.p@msu.ac.th

Data collection using M8T

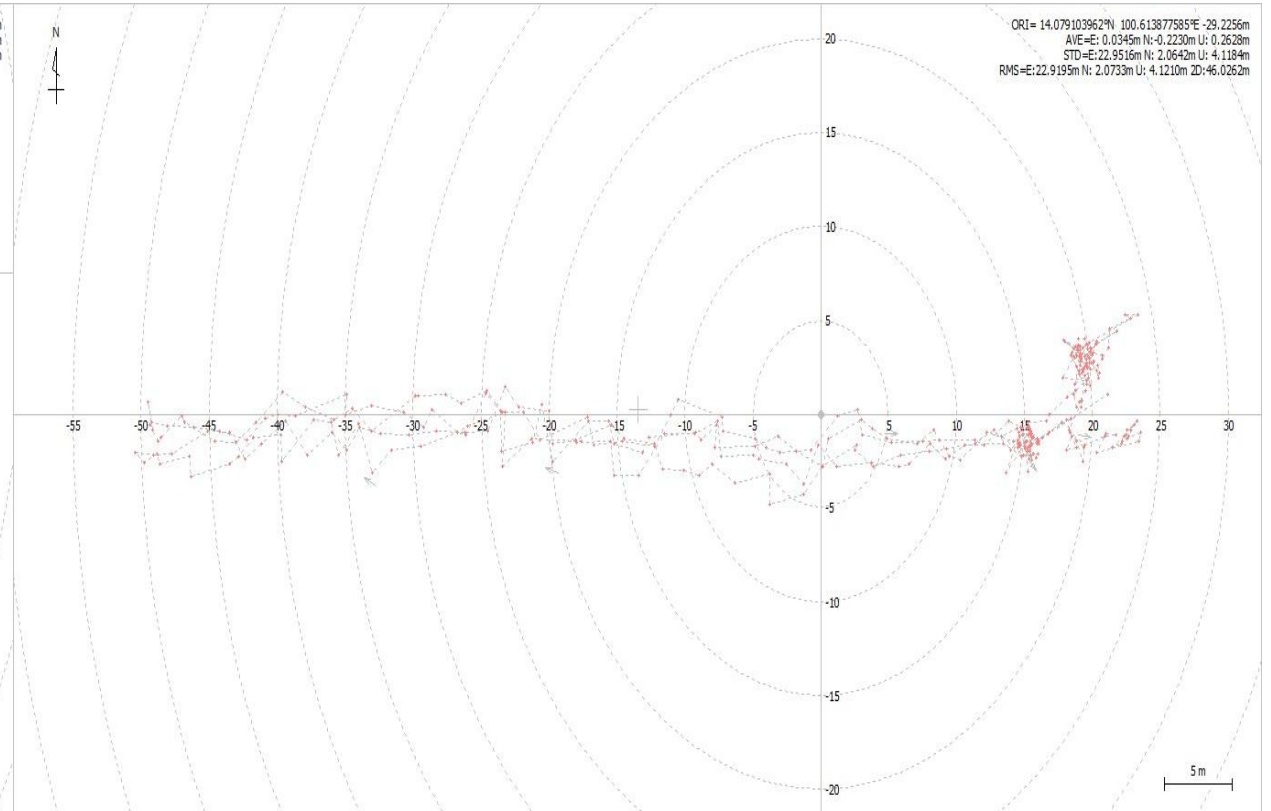


M8T- SPP

Collection and Processing using F9P



F9P receiver Static G1-G0



F9P receiver Dynamic G1

Static point Positioning SEP

Accuracy Measures	Formula	Probability	Definition
SEP (Spherical Error Probable)	$0.51(\sigma_y + \sigma_x + \sigma_z)$	50%	The radius of sphere centered at the true position, containing the position estimate in 3D with probability of 50%

	σ_x	σ_y	σ_z	SEP (m)
NETR9	0.966136	0.68432	1.247988	1.478
M8T	0.981317	0.780512	0.730523	1.271

Processing of Baseline Data

	ex	ey	ez
NetR9-SPP	-1.15666	0.63952	0.84944
M8T-SPP	-0.89230	0.80211	0.83812
M8T-DGPS	-0.08699	0.11731	0.12935
M8T-RTK	-0.08092	0.09861	0.11479

RTK using RTKDROID

10:31 12 KB/s 83%

RtkDroid ABOUT

Date: Jan 10, 2020
Time: 3:31:50 AM
Latitude: 14.07918831°
Longitude: 100.61407731°
X: 47N 674266.073m E
Y: 47N 1557081.403m N
Ellipsoidal Height: -28.550m
Orthometric Height: 2.766m
Fix Type: Float RTK
Speed: 0.56 km/hr
HDOP: 0.9
VDOP: 2.1
PDOP: 2.3
Satellites in View: 26
Satellites in Use: 12
Latitude Error: 0.022m
Longitude Error: 0.018m
Altitude Error: 0.008m

NMEA: 2020_01_10_10_20_17.txt(1MB)
UBX: 2020_01_10_10_20_17.ubx(1MB)

STOP RECORDING

Setup Status Skyplot

10:32 12 KB/s 83%

RtkDroid ABOUT

UTC Time: 3:32:07 AM
Latitude: 14.07918889° N
Longitude: 100.61407927° E
Ellipsoidal Height: -28.729m
Orthometric Height: 2.587m
Speed: 0.30 km/hr
Fix type: Fix RTK
Satellites in view: 26
Satellites in use: 12
PDOP: 2.3
HDOP: 0.9
VDOP: 2.1

Setup Status Skyplot

EN\MTS\Travel\GNSS_AIT\Training_Data\Day 5- Rtk droid\2020_01_10_10_20_17.ubx

File Edit View Windows Help

ORI= 14.079182900°N 100.614067036°E -26.4376m
AVE=E: 0.0000m N: 0.0000m U: -0.0000m
STD=E: 2.7897m N: 3.2261m U: 1.7911m
RMS=E: 2.7885m N: 3.2247m U: 1.7903m 2D: 8.5262m

2m

[1] 2020/01/10 03:20:38 GPST-01/10 03:39:33 GPST : N=1137B=0.0km Q= 4:1050(92.3%) 5:87(7.7%)

14.07910338°N 100.61421700°E

THANK YOU