C0: [3.3, 0.5]x40 [1.34, 0.05] 59 x.lon, y.lat

C2: [19, 4]x40 [7.55, 1.50] 93

93: [ 19, 29.5]x40 [7.55, 11.66] C2

59: [4 , 29.5]x40 [1.50, 11.66] C0

GW:[2.7, 13.5]x40 [1.05, 5.49]

PL: [6, 16]x40 [2.43, 6.33] PL  
TAG:[6, 11.5]x40 [2.43, 4.53] TAG

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | 59 | 93 | C2 | C0 |
| PL | 5.41 | 7.39 | 7.04 | 6.37 |
| TAG | 7.19 | 8.78 | 5.95 | 4.61 |
|  |  |  |  |  |

'2020-02-26T09:23:01.314Z'

93 c0 c2 59

3.168-5.719:

* 6.083 6.171 7.382 5.814 ref đúng (tính tay)
* 3.484 5.642 6.961 8.659 ref tính (python tính)
* 2.599 0.529 0.421 2.845 sai số

3.981-7.349:

* 6.852 4.974 5.597 7.621 ref đúng (tính tay)
* 3.554 3.309 5.388 9.378 ref tính (python tính)
* 3.298 1.665 0.209 1.757 sai số

Root : 210, 204

20dbi: 210, 112 => 92

0: 210, 148 =>56 =>-77.826

10: 219, 154 =>50.80 =>-78.957

20: 231, 148 =>59.808 =>-76.998

30: 245, 144 =>69.462 =>-74.900

40: 258, 148 =>73.756 =>-73.966

50: 271, 154 =>78.873 =>-72.854

60: 278, 165 =>78.390 =>-72.959

70: 284, 178 =>78.435 =>-72.949

80: 288, 190 =>78.246 =>-72.99

90: 285, 204 =>75 =>-73.696

100: 288, 219 =>79.429 =>-72.733

110: 281, 230 =>75.611 =>-73.563

120: 267, 238 =>66.370 =>-75.572

130: 263, 249 =>69.527 =>-74.885

140: 246, 247 =>56.080 =>-77.809

150: 241, 257 =>61.400 =>-76.652

160: 226, 247 =>45.880 =>-80.026

170: 221, 263 =>60.017 =>-76.953

180: 210, 256 =>52 =>-78.696

190: 200, 263 =>59.841 =>-76.991

200: 188, 265 =>64.846 =>-75.903

210: 181, 256 =>59.540 =>-77.057

220: 168, 254 =>65.299 =>-75.805

230: 157, 249 =>69.527 =>-74.885

240: 150, 239 =>69.462 =>-74.900

250: 145, 228 =>69.289 =>-74.937

260: 138, 217 =>73.164 =>-74.095

270: 133, 204 =>77 =>-73.261

280: 133, 191 =>78.090 =>-73.024

290: 132, 176 =>82.873 =>-71.984

300: 138, 162 =>83.355 =>-71.879

310: 147, 151 =>82.329 =>-72.102

320: 163, 148 =>73.110 =>-74.107

330: 176, 145 =>68.096 =>-75.197

340: 188, 143 =>64.846 =>-75.903

350: 199, 142 =>62.968 =>-76.311

Vector góc: (1;0)

0 -1

0 1

#59

a1=ret['lon']-loc\_json['ac:23:3f:a2:16:59']['lon']

b1=ret['lat']-loc\_json['ac:23:3f:a2:16:59']['lat']

cos\_=(a1\*a2+b1\*b2)/(math.sqrt(a1\*\*2+b1\*\*2)\*math.sqrt(a2\*\*2+b2\*\*2))

phy=math.acos(cos\_)

if ret['lat']<loc\_json['ac:23:3f:a2:16:59']['lat']:

phy=360-phy

phy=(phy+angle\_59)%360

#93

a1=ret['lon']-loc\_json['ac:23:3f:a2:16:93']['lon']

b1=ret['lat']-loc\_json['ac:23:3f:a2:16:93']['lat']

cos\_=(a1\*a2+b1\*b2)/(math.sqrt(a1\*\*2+b1\*\*2)\*math.sqrt(a2\*\*2+b2\*\*2))

phy=math.acos(cos\_)

if ret['lat']<loc\_json['ac:23:3f:a2:16:93']['lat']:

phy=360-phy

phy=(phy+angle\_93)%360

#c2

a1=ret['lon']-loc\_json['ac:23:3f:a2:16:c2']['lon']

b1=ret['lat']-loc\_json['ac:23:3f:a2:16:c2']['lat']

cos\_=(a1\*a2+b1\*b2)/(math.sqrt(a1\*\*2+b1\*\*2)\*math.sqrt(a2\*\*2+b2\*\*2))

phy=math.acos(cos\_)

if ret['lat']<loc\_json['ac:23:3f:a2:16:c2']['lat']:

phy=360-phy

phy=(phy+angle\_c2)%360

#c0

a1=ret['lon']-loc\_json['ac:23:3f:a2:16:c0']['lon']

b1=ret['lat']-loc\_json['ac:23:3f:a2:16:c0']['lat']

cos\_=(a1\*a2+b1\*b2)/(math.sqrt(a1\*\*2+b1\*\*2)\*math.sqrt(a2\*\*2+b2\*\*2))

phy=math.acos(cos\_)

if ret['lat']<loc\_json['ac:23:3f:a2:16:c0']['lat']:

phy=360-phy

phy=(phy+angle\_c0)%360

R1=-10\*n\*log(D1)+R0

R2=-10\*n\*log(D2)+R0

(R1-R0)/(R2-R0)=log(D1)/log(D2)=a=1.77

R1=a\*(R2-R0)+R0=1.77(54-45.5)+45.5

A\*(R2+x-R0)+R0

R+b=a\*(R+c-R0)+R0

R+b=a\*R+a\*c+(1-a)\*R0

(1-a)R=a\*c-b+(1-a)\*R0

R=-10n\*log(d)+R1m

(R1m-R)/(10n)<1.176

(R1m-R)<11.76\*n

R>R1m-11.76\*n

50 2m

40 1m

3m log10(3)/log10(2)\*(-50+40)-40=-55.84

93 c0 c2 59

3-5: