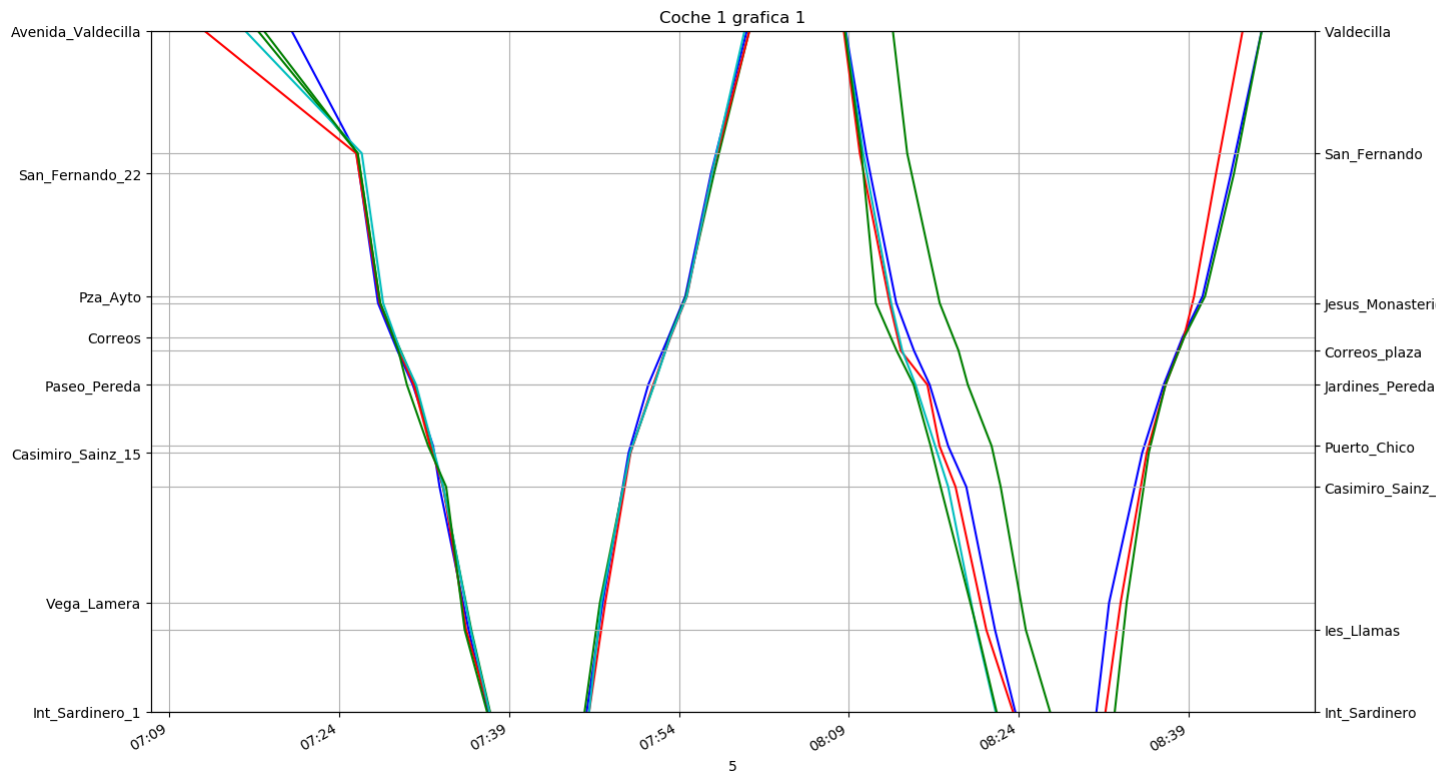


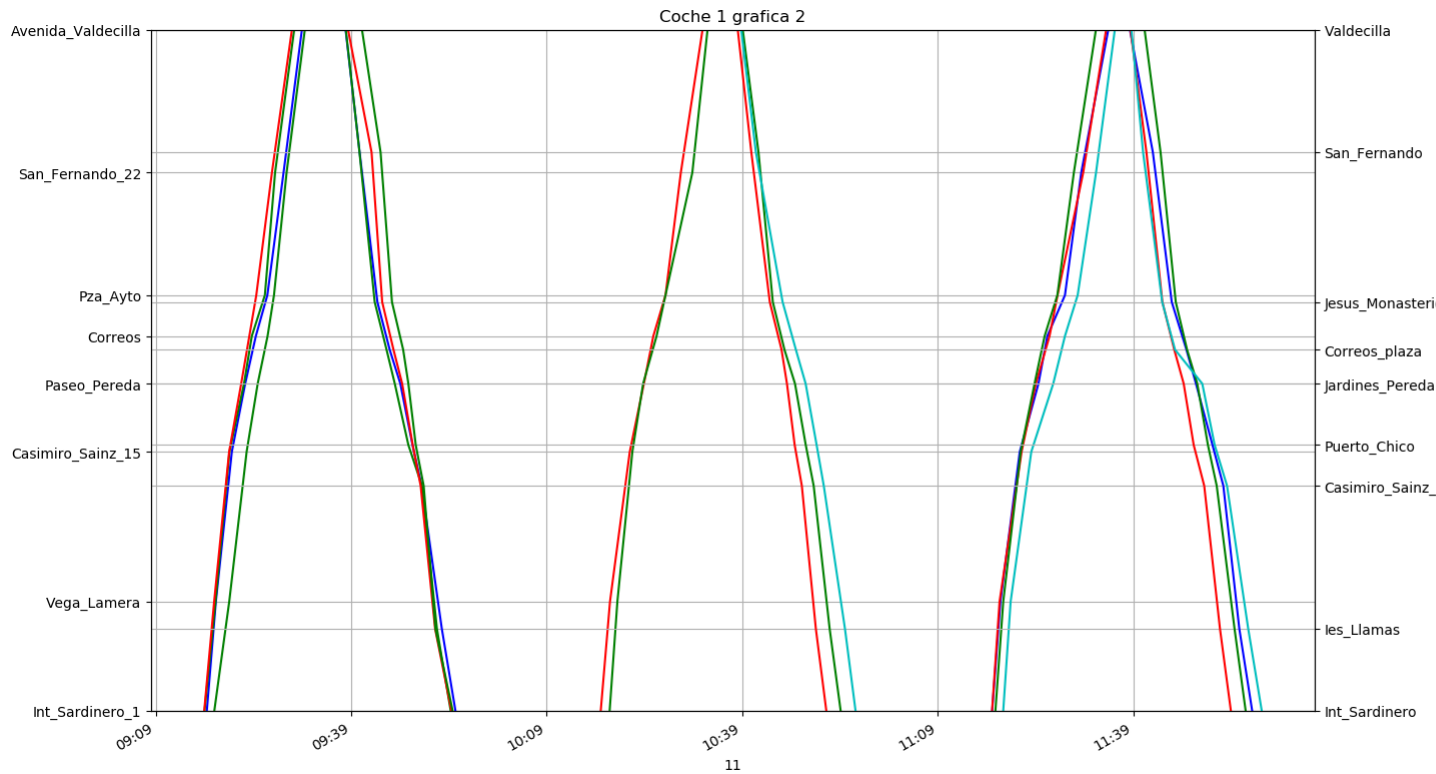
Coche 1 grafica 1

Gráfico evolución:



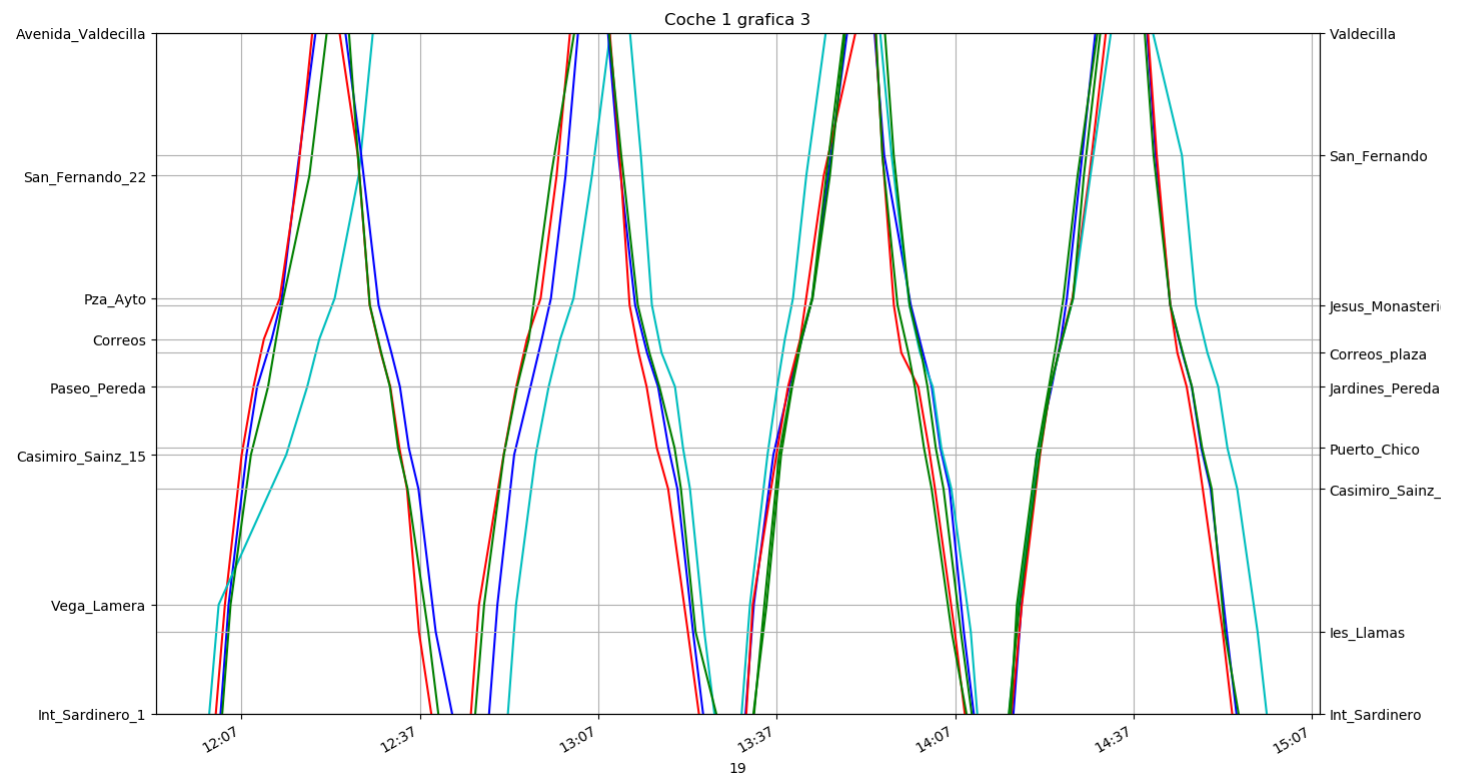
Coche 1 grafica 2

Gráfico evolución:



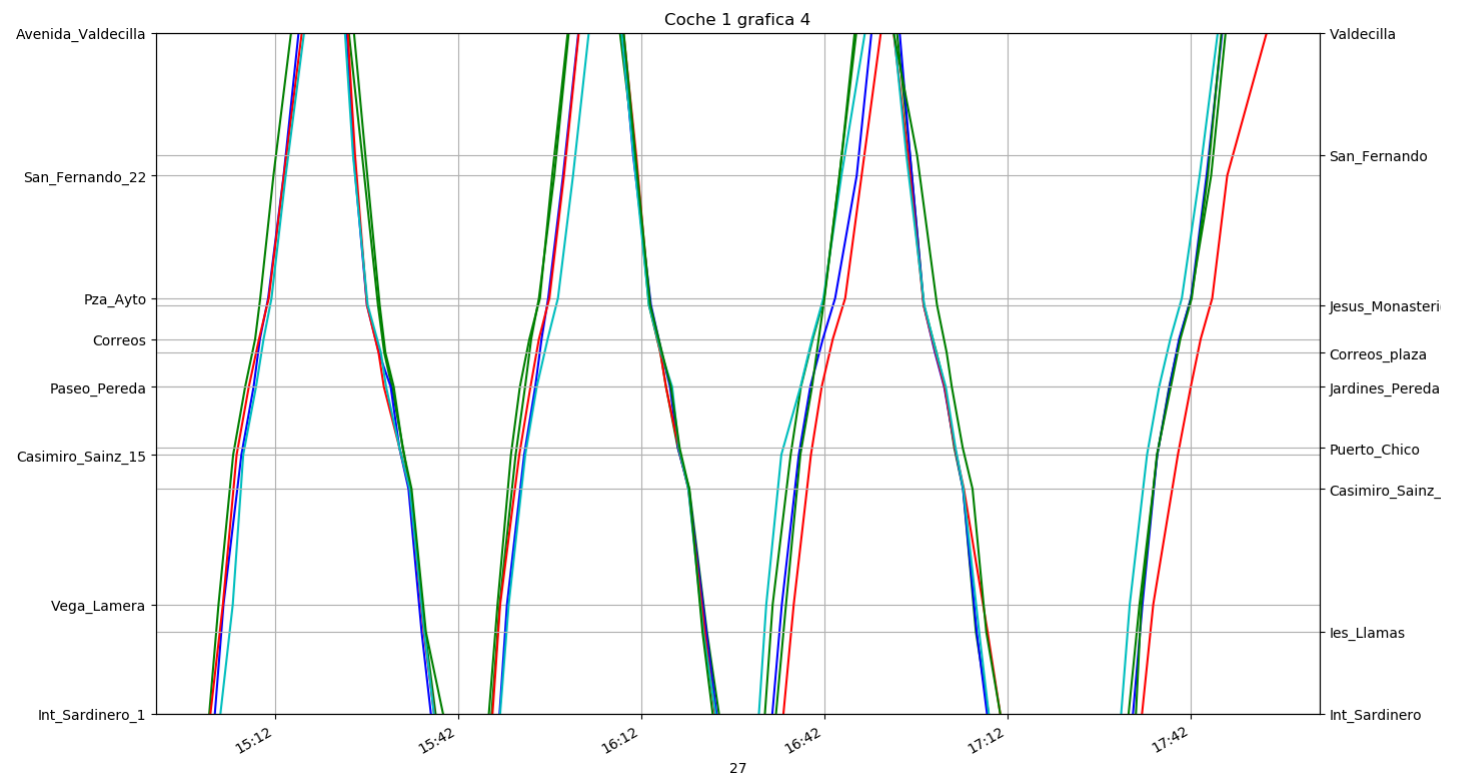
Coche 1 grafica 3

Gráfico evolución:



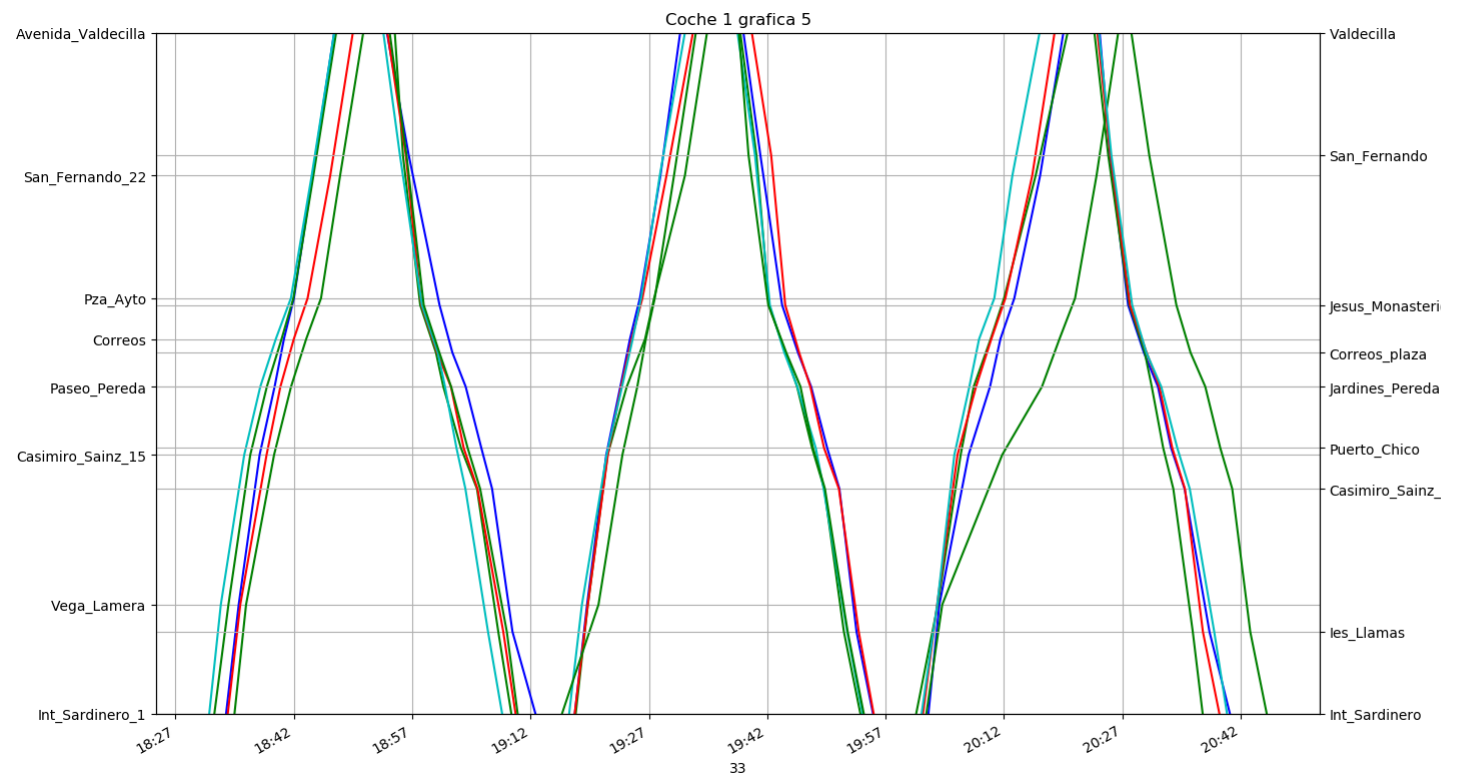
Coche 1 grafica 4

Gráfico evolución:



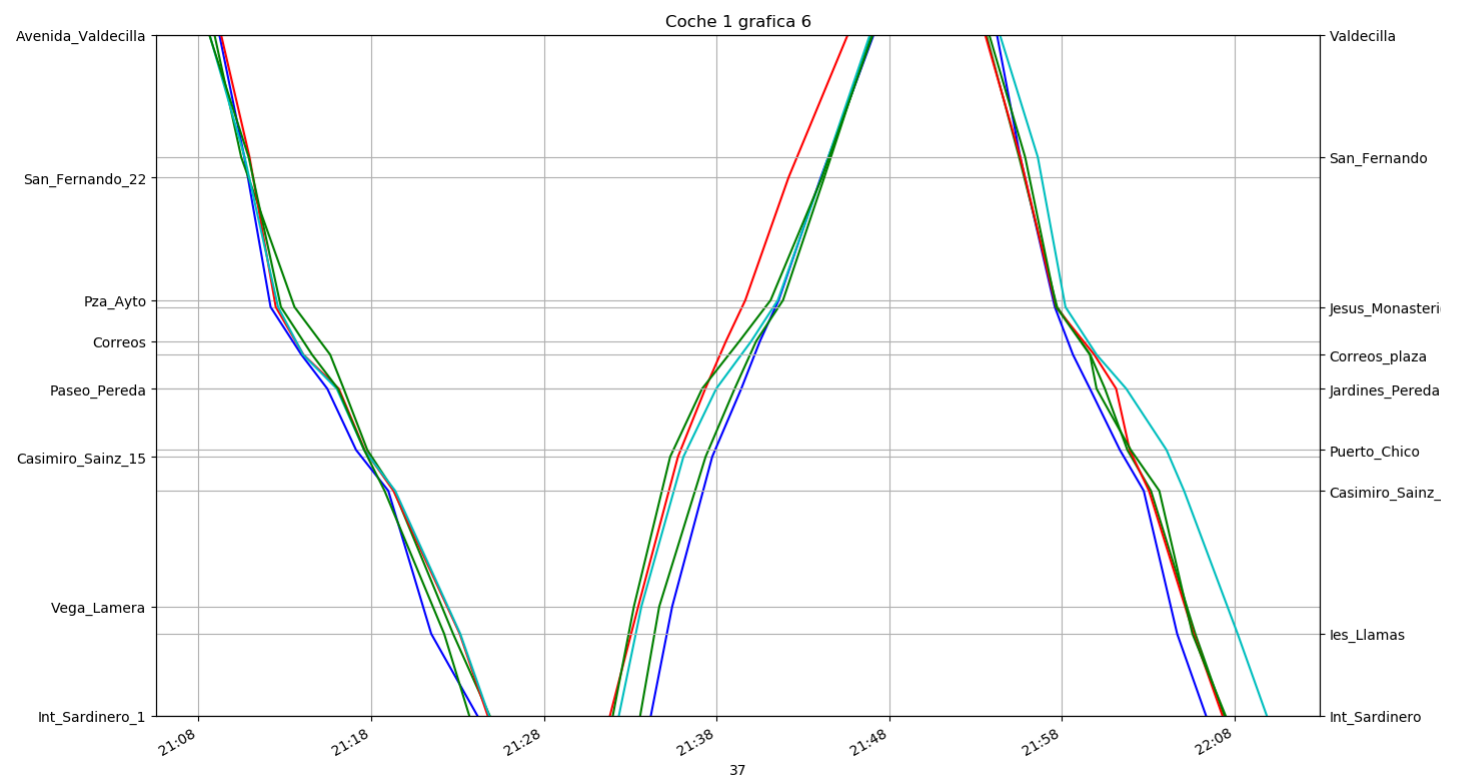
Coche 1 grafica 5

Gráfico evolución:



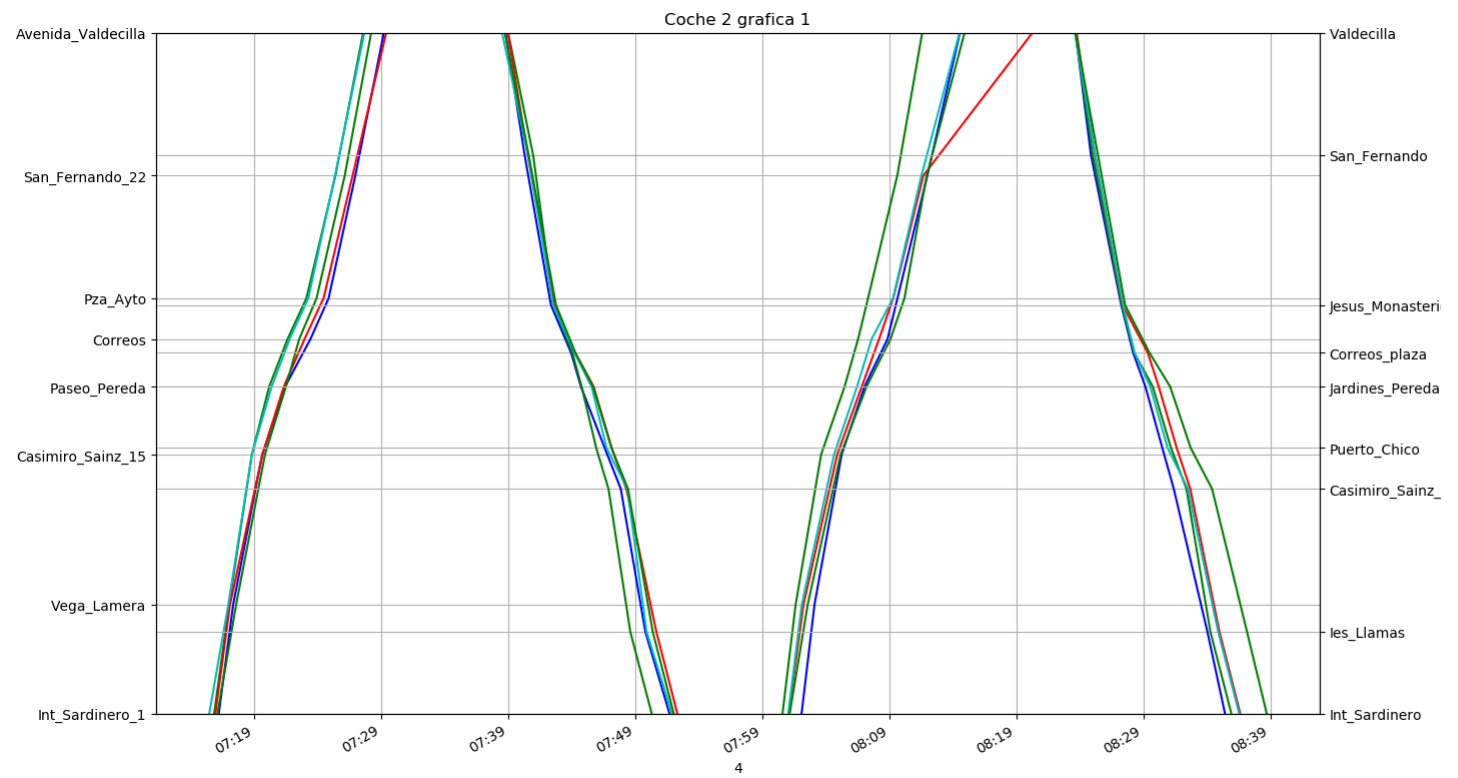
Coche 1 grafica 6

Gráfico evolución:



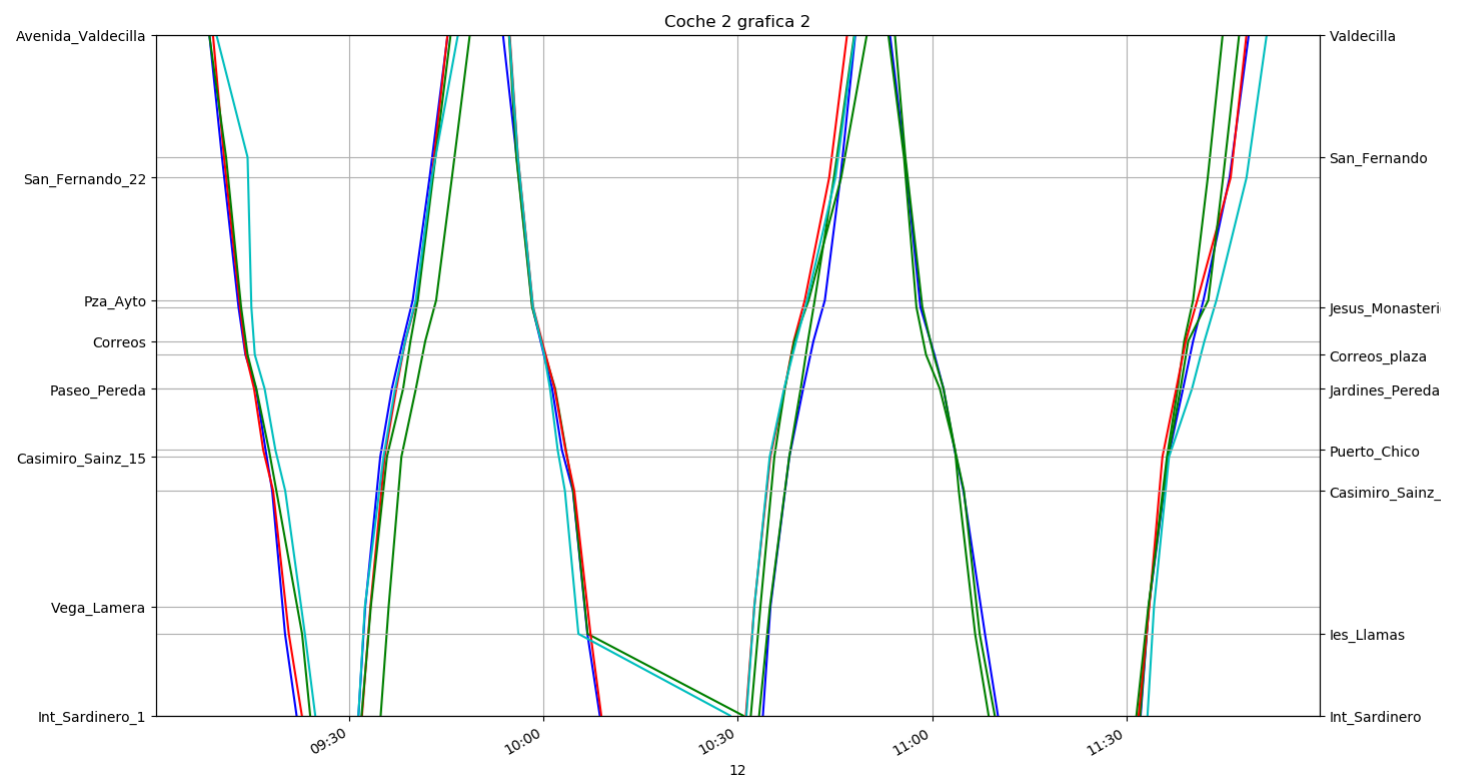
Coche 2 grafica 1

Gráfico evolución:



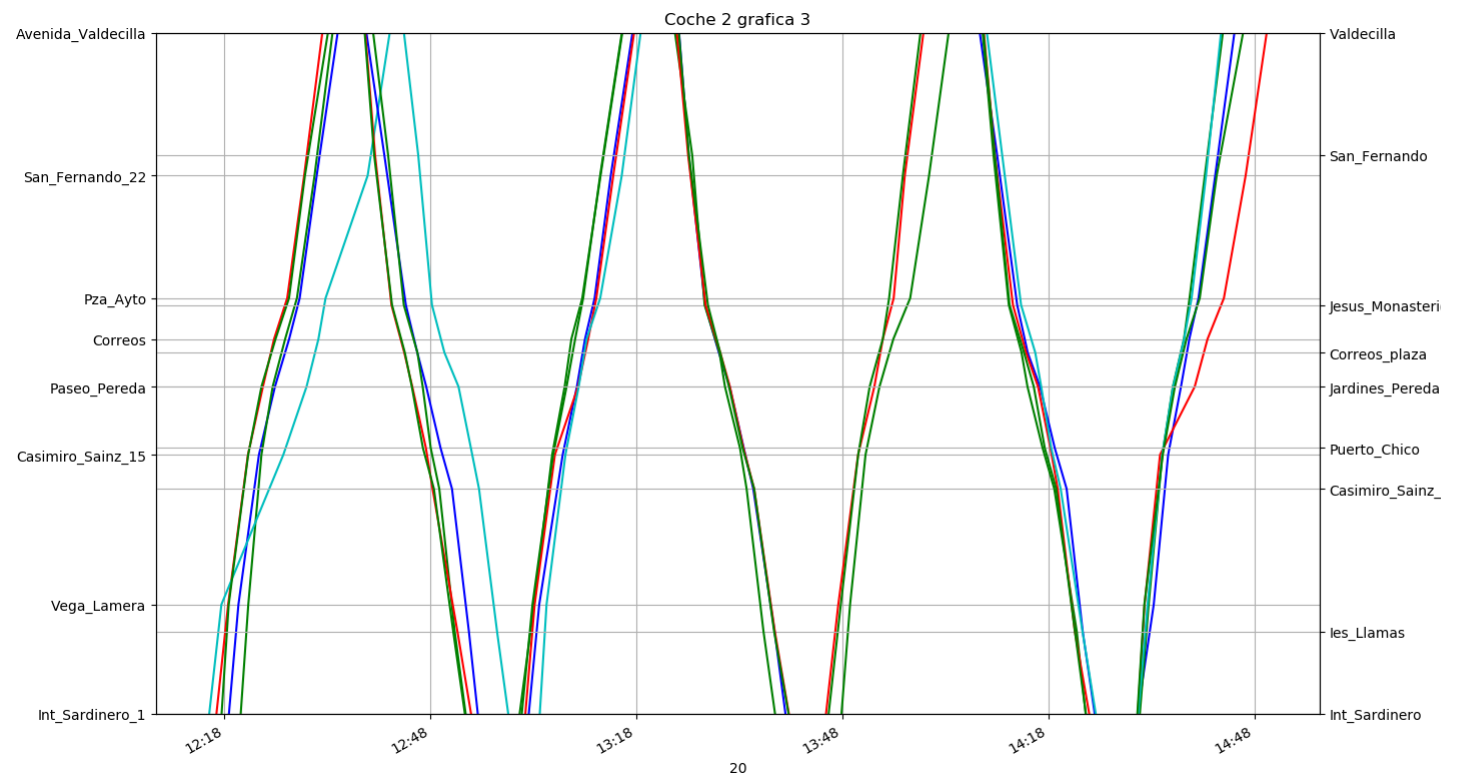
Coche 2 grafica 2

Gráfico evolución:



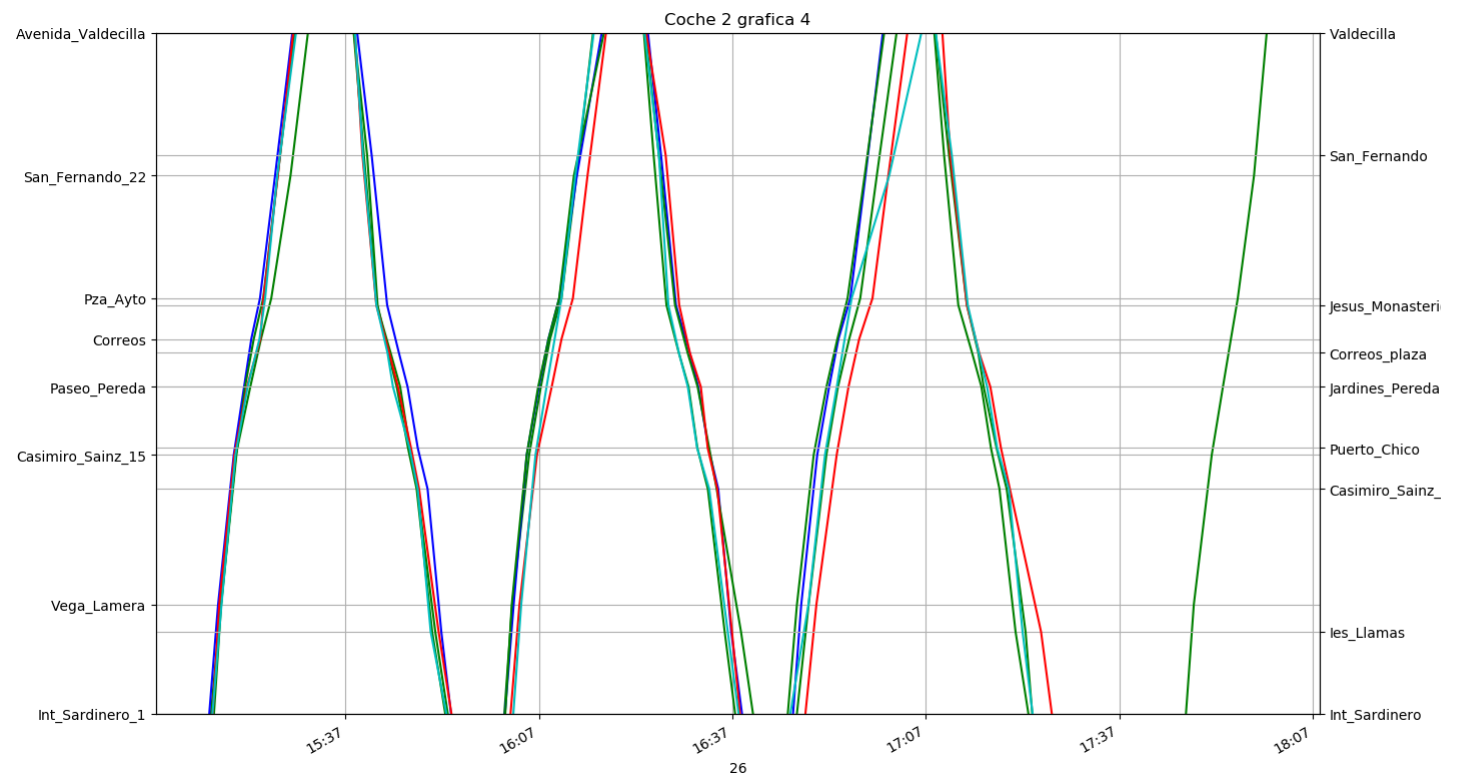
Coche 2 grafica 3

Gráfico evolución:



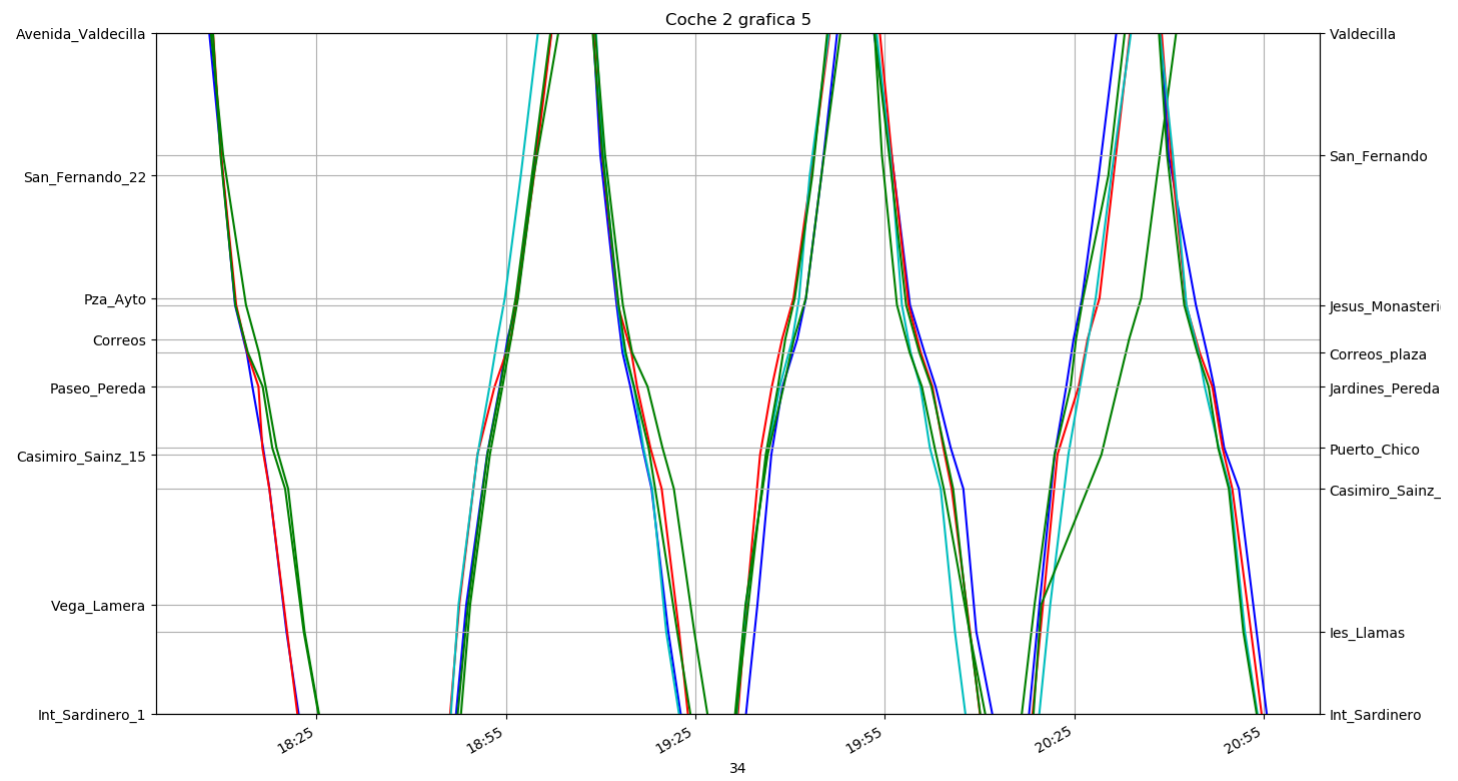
Coche 2 grafica 4

Gráfico evolución:



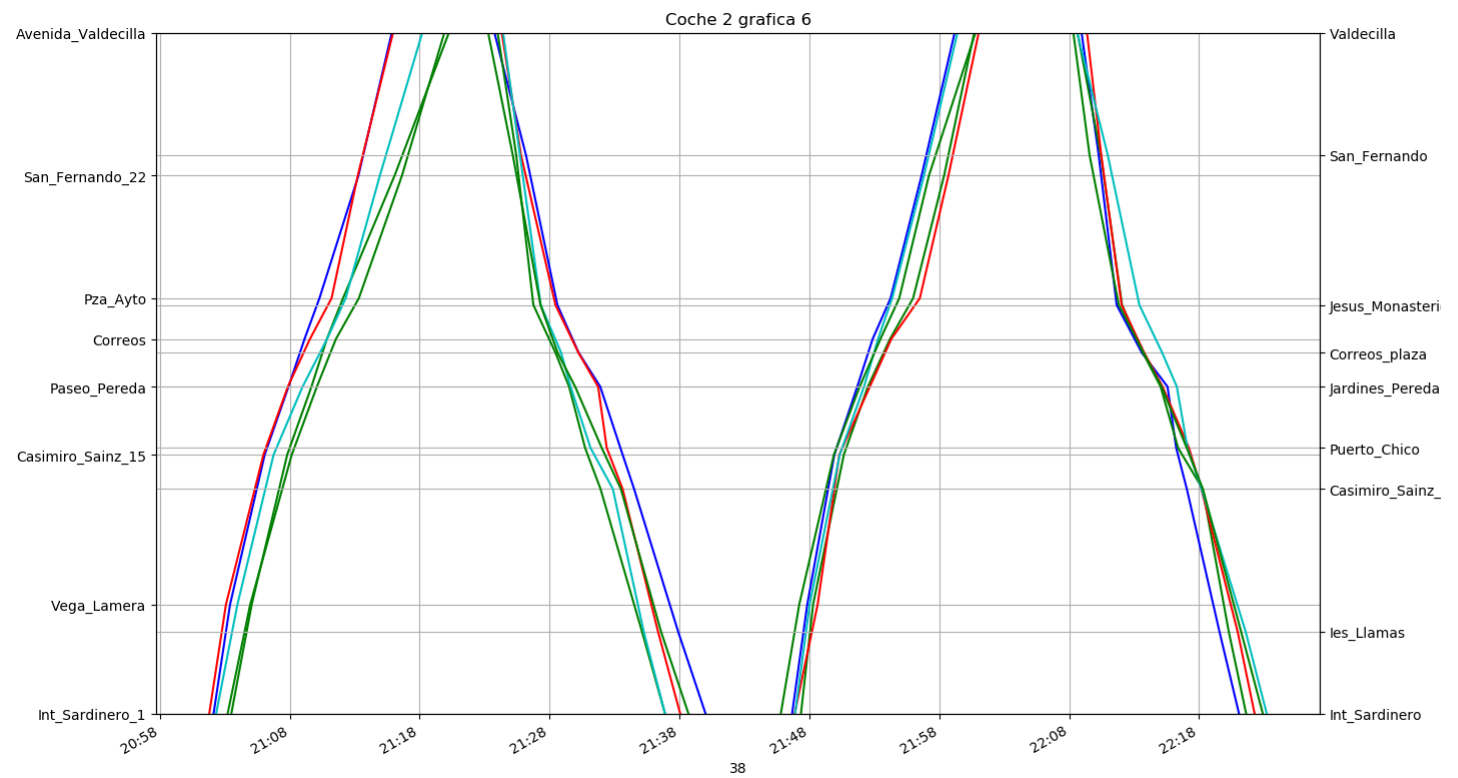
Coche 2 grafica 5

Gráfico evolución:



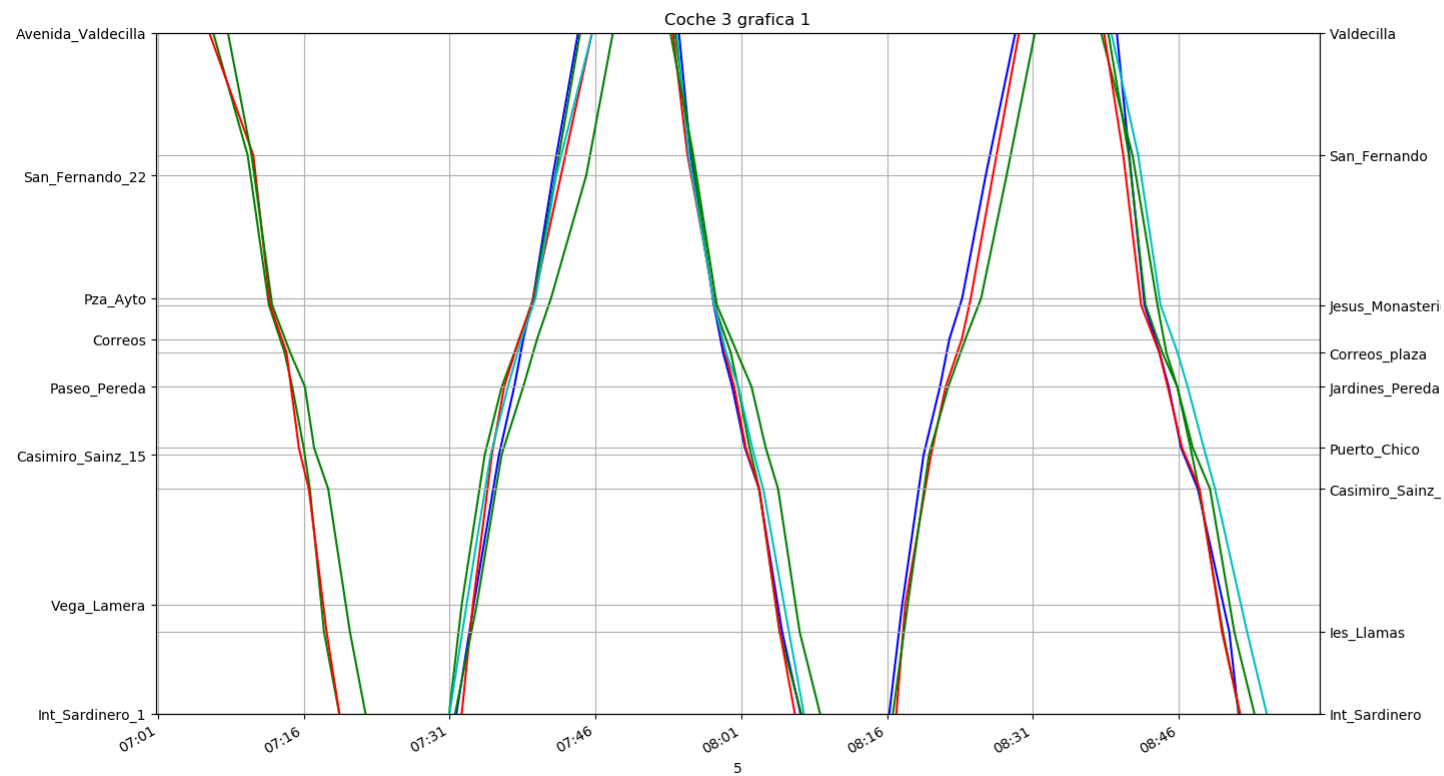
Coche 2 grafica 6

Gráfico evolución:



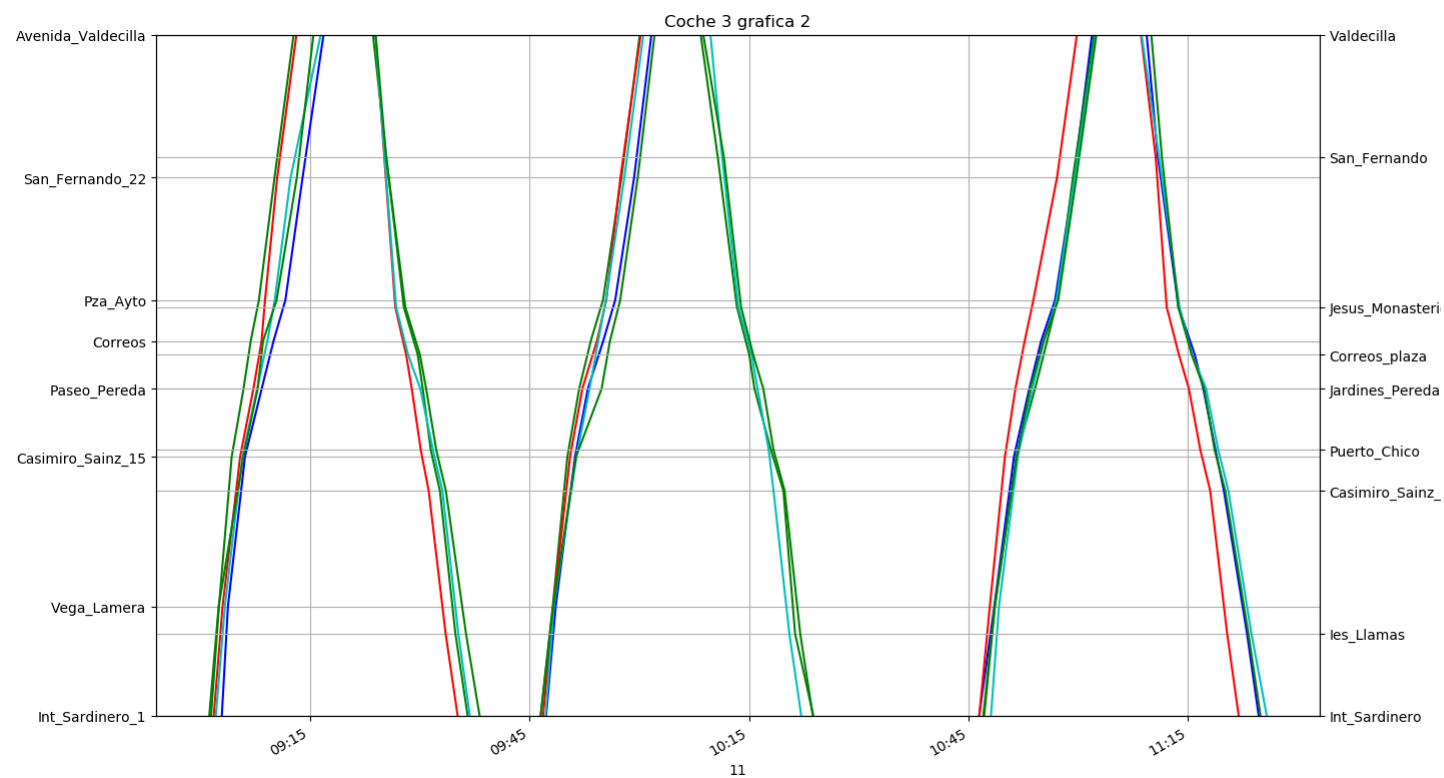
Coche 3 grafica 1

Gráfico evolución:



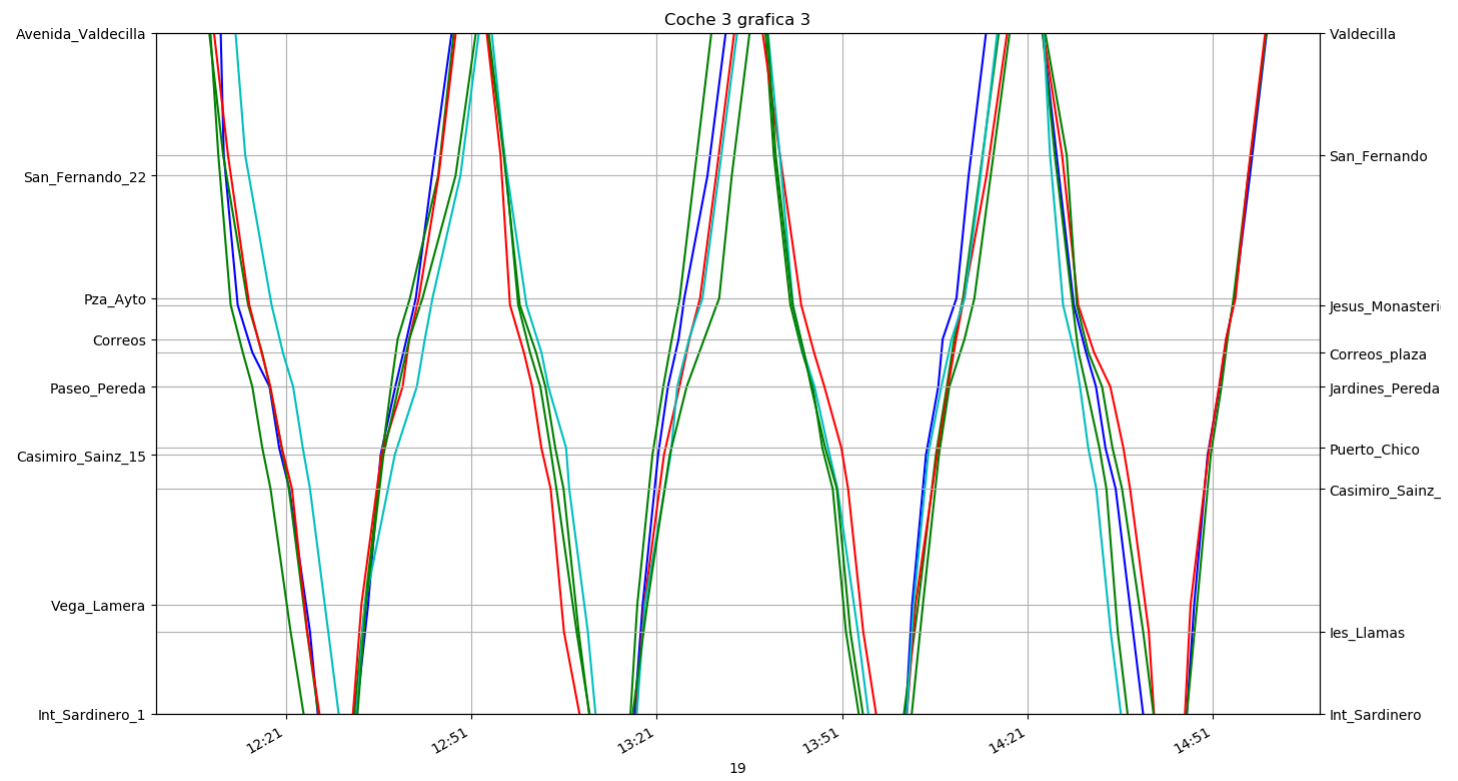
Coche 3 grafica 2

Gráfico evolución:



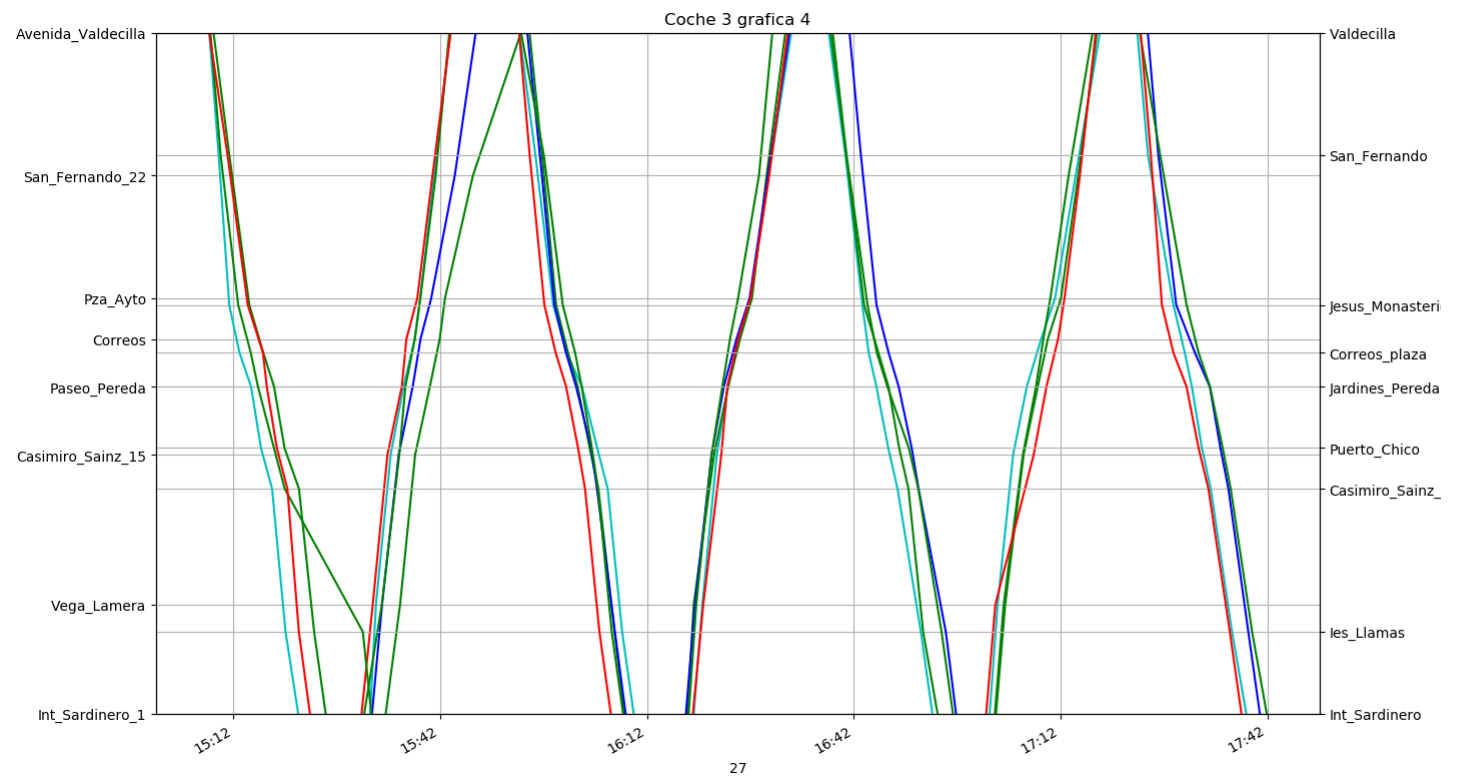
Coche 3 grafica 3

Gráfico evolución:



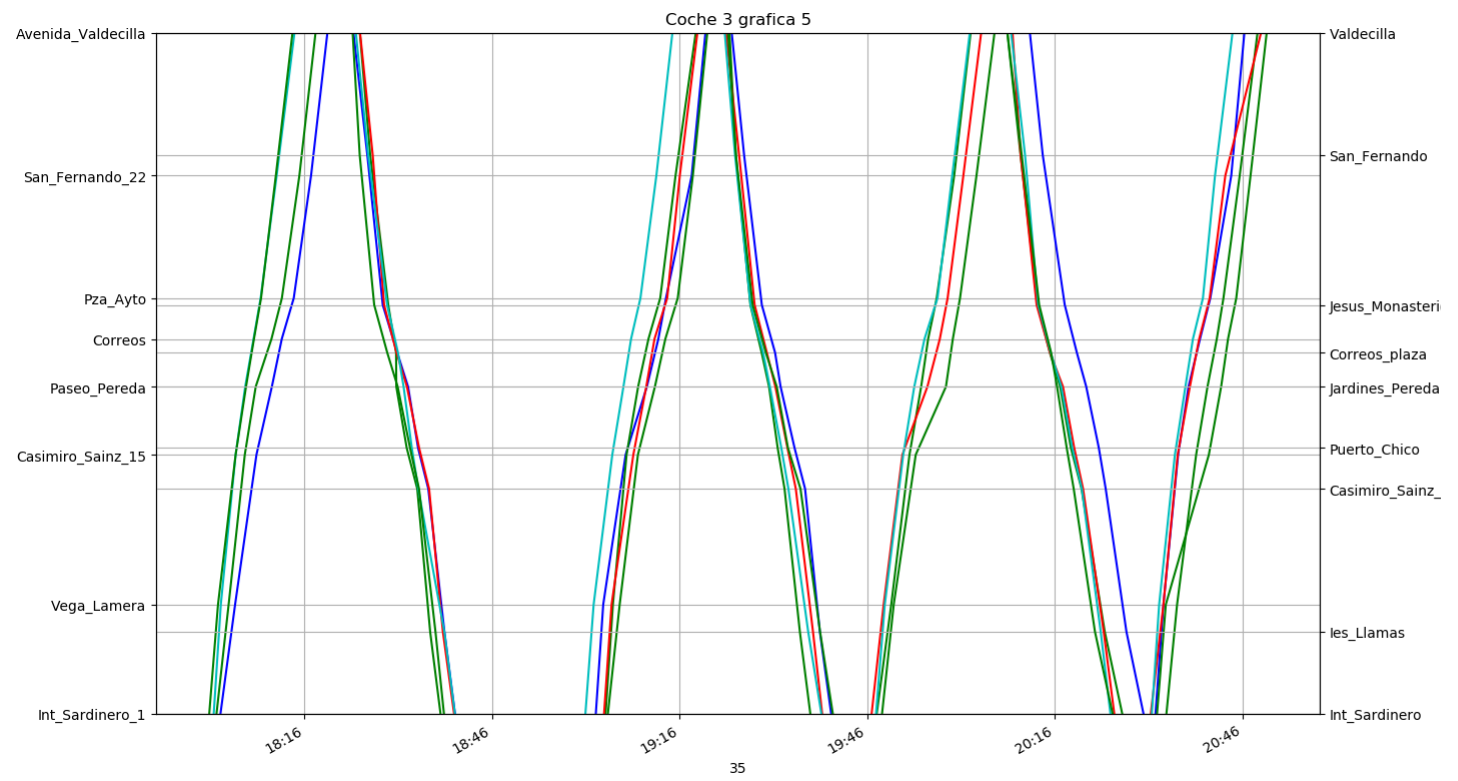
Coche 3 grafica 4

Gráfico evolución:



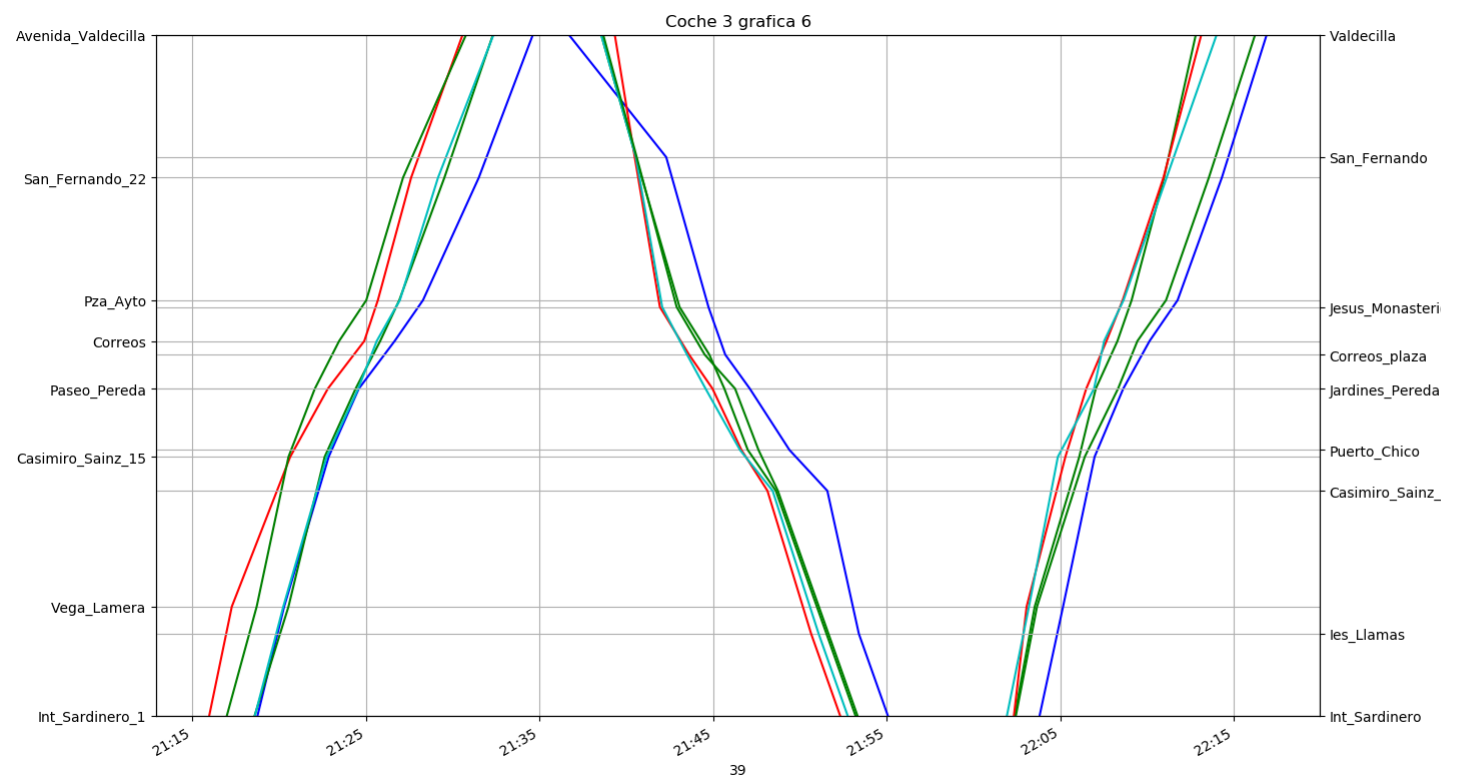
Coche 3 grafica 5

Gráfico evolución:



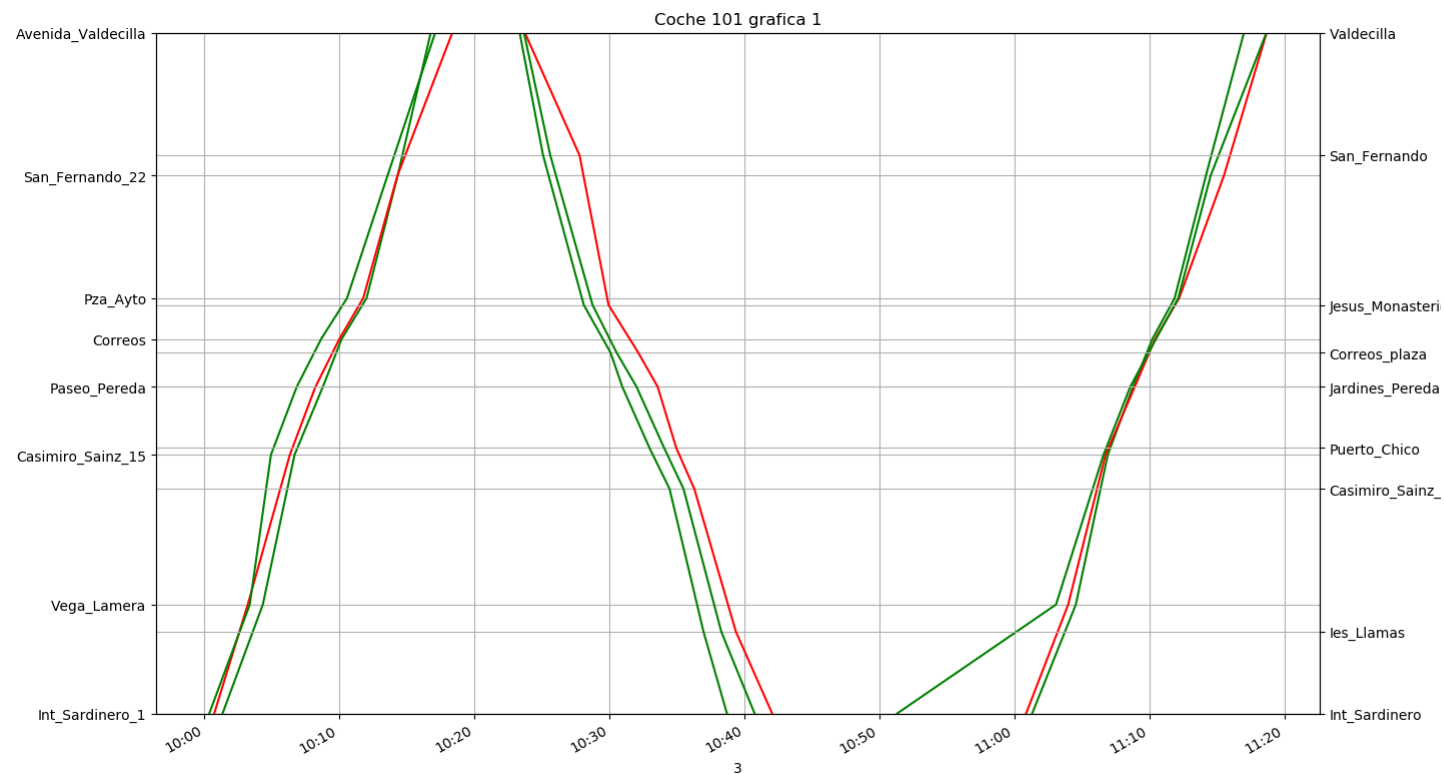
Coche 3 grafica 6

Gráfico evolución:



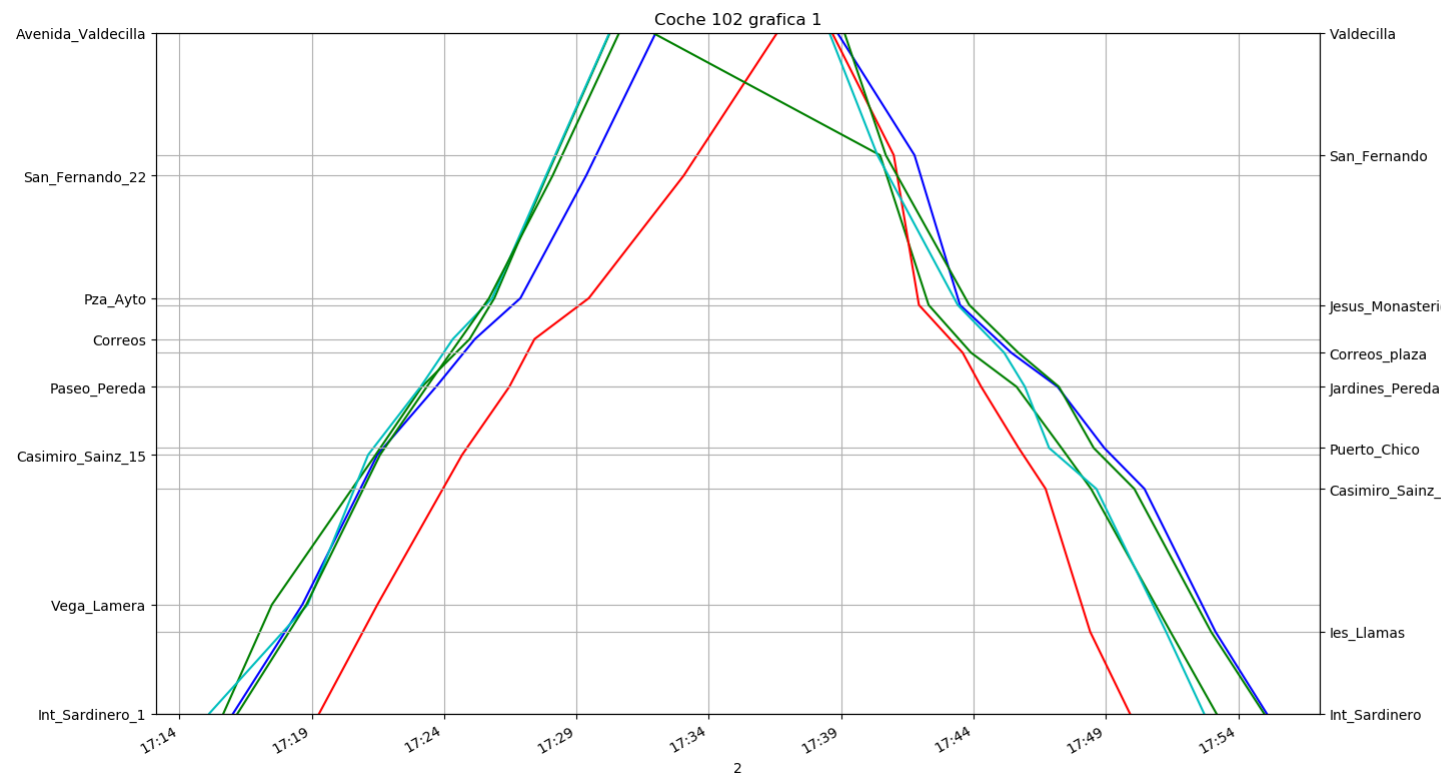
Coche 101 grafica 1

Gráfico evolución:



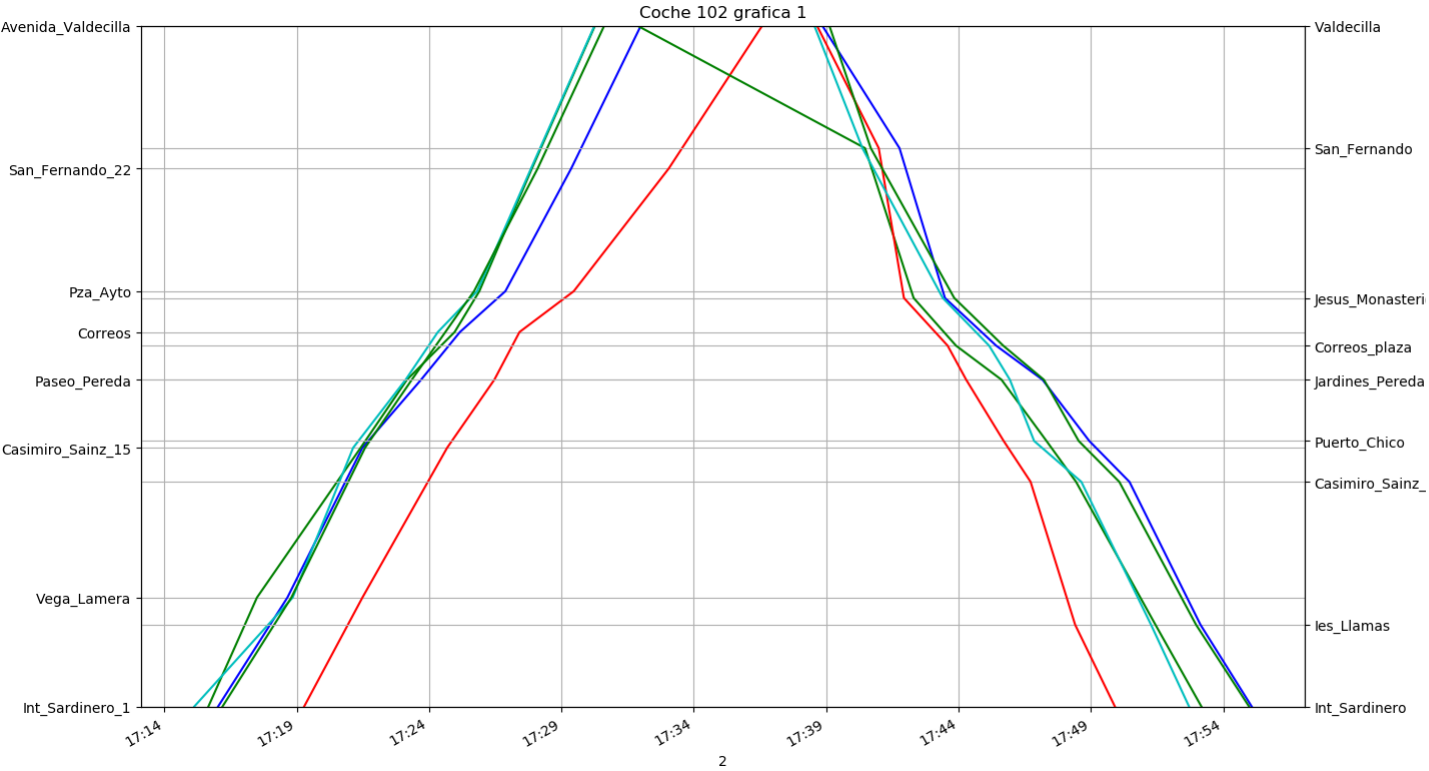
Coche 102 grafica 1

Gráfico evolución:



Coche 102 grafica 1

Gráfico evolución:



2

Tabla resumen velocidades y tiempos

coche	sentido	viaje	media tiempo viaje (minutos)	media velocidad comercial (km/h)	desviación tiempo viaje	desviación velocidad comercial
0	Sardinero_Valdecilla	5	14.200000	20.704225	NaN	NaN
0	Sardinero_Valdecilla	7	14.916667	19.709497	NaN	NaN
1	Valdecilla_Sardinero	2	20.853333	14.308225	2.870501	1.921828
1	Sardinero_Valdecilla	3	14.133333	20.810602	0.333611	0.492400
1	Valdecilla_Sardinero	4	14.076667	20.942255	0.822310	1.212101
1	Sardinero_Valdecilla	5	13.216667	22.377014	1.260401	2.084636
1	Sardinero_Valdecilla	7	13.916667	21.144256	0.479969	0.715708
1	Valdecilla_Sardinero	8	15.670833	18.856960	1.255460	1.599581
1	Sardinero_Valdecilla	9	15.316667	19.202143	0.424264	0.531890
1	Valdecilla_Sardinero	10	15.377778	19.330160	1.999606	2.447504
1	Sardinero_Valdecilla	11	16.962500	17.386979	1.069560	1.155663
1	Valdecilla_Sardinero	12	17.408333	17.112728	2.317026	2.248646
1	Sardinero_Valdecilla	13	19.312500	15.992502	5.503389	3.609586
1	Valdecilla_Sardinero	14	16.122222	18.347523	1.581168	1.710715
1	Sardinero_Valdecilla	15	16.358333	18.022896	0.975107	1.128002
1	Valdecilla_Sardinero	16	15.795833	18.761915	1.663518	1.896302
1	Sardinero_Valdecilla	17	16.013333	18.519085	1.685246	1.898142
1	Valdecilla_Sardinero	18	15.560000	18.944337	0.897187	1.078715
1	Sardinero_Valdecilla	19	15.333333	19.278743	1.269733	1.586336
1	Valdecilla_Sardinero	20	16.016667	18.592105	2.180257	2.320893
1	Sardinero_Valdecilla	21	13.945833	21.119396	0.695937	1.011014
1	Valdecilla_Sardinero	22	14.253333	20.636410	0.343066	0.501572
1	Sardinero_Valdecilla	23	13.423333	21.969764	0.842170	1.347302
1	Valdecilla_Sardinero	24	15.323333	19.210916	0.614478	0.763898
1	Sardinero_Valdecilla	25	15.480000	19.187260	1.684793	2.249129
1	Valdecilla_Sardinero	26	15.946667	18.557402	1.445943	1.669254
1	Sardinero_Valdecilla	27	16.143333	18.526988	2.520488	2.536924
1	Sardinero_Valdecilla	29	15.426667	19.129047	1.014656	1.353090
1	Valdecilla_Sardinero	30	16.216667	18.261883	1.598741	1.683171
1	Sardinero_Valdecilla	31	15.316667	19.342042	1.483474	1.905470
1	Valdecilla_Sardinero	32	15.746667	18.683222	0.459226	0.540383
1	Sardinero_Valdecilla	33	18.443333	16.382962	3.612759	2.852837
1	Valdecilla_Sardinero	34	15.810000	18.706965	1.319333	1.668156
1	Valdecilla_Sardinero	36	15.506667	18.978156	0.543727	0.662086
1	Sardinero_Valdecilla	37	13.923333	21.181177	0.869355	1.313361
1	Valdecilla_Sardinero	38	13.746667	21.515268	1.185057	1.868130
2	Sardinero_Valdecilla	2	12.500000	23.578789	0.703661	1.306211
2	Valdecilla_Sardinero	3	12.850000	22.974869	0.886551	1.730770
2	Sardinero_Valdecilla	4	13.983333	21.756658	3.110913	4.175290
2	Valdecilla_Sardinero	5	12.980000	22.808050	1.252741	2.049779
2	Valdecilla_Sardinero	7	14.512500	20.340851	1.067133	1.495382
2	Sardinero_Valdecilla	8	13.973333	21.094582	0.816718	1.166702
2	Valdecilla_Sardinero	9	24.829167	14.301346	11.903309	6.853934
2	Sardinero_Valdecilla	10	15.853333	18.674998	1.496450	1.724907
2	Valdecilla_Sardinero	11	15.855556	18.566143	0.703233	0.803114
2	Sardinero_Valdecilla	12	16.073333	18.568294	2.083053	2.689641
2	Sardinero_Valdecilla	14	17.276667	17.961532	5.127548	4.025889
2	Valdecilla_Sardinero	15	14.970000	19.715085	1.023976	1.387926

coche	sentido	viaje	media tiempo viaje (minutos)	media velocidad comercial (km/h)	desviación tiempo viaje	desviación velocidad comercial
2	Sardinero_Valdecilla	16	15.026667	19.581988	0.497857	0.632914
2	Valdecilla_Sardinero	17	15.579167	18.905349	0.753679	0.937342
2	Sardinero_Valdecilla	18	14.383333	20.523240	1.130020	1.584438
2	Valdecilla_Sardinero	19	15.566667	18.920405	0.748239	0.881922
2	Sardinero_Valdecilla	20	14.473333	20.879178	2.788782	3.705171
2	Sardinero_Valdecilla	22	13.173333	22.423902	1.060765	1.647842
2	Valdecilla_Sardinero	23	14.480000	20.312413	0.333000	0.464545
2	Sardinero_Valdecilla	24	14.263333	20.729051	1.161560	1.794599
2	Valdecilla_Sardinero	25	14.903333	19.794437	1.011009	1.240751
2	Sardinero_Valdecilla	26	16.086667	18.579780	2.468873	2.487299
2	Valdecilla_Sardinero	27	15.387500	19.172036	1.071031	1.257443
2	Sardinero_Valdecilla	28	12.516667	23.488682	NaN	NaN
2	Valdecilla_Sardinero	29	15.329167	19.395222	1.860276	2.376435
2	Sardinero_Valdecilla	30	15.000000	19.650822	0.845741	1.128198
2	Valdecilla_Sardinero	31	15.030000	19.770890	1.776404	2.231576
2	Sardinero_Valdecilla	32	14.930000	19.754863	0.982584	1.196022
2	Valdecilla_Sardinero	33	16.586667	17.891274	1.756077	1.970580
2	Sardinero_Valdecilla	34	16.533333	18.325314	3.518384	3.213615
2	Valdecilla_Sardinero	35	15.866667	18.549631	0.613883	0.696893
2	Sardinero_Valdecilla	36	15.433333	19.183038	1.421072	1.811779
2	Valdecilla_Sardinero	37	14.150000	20.994683	1.629886	2.362680
2	Sardinero_Valdecilla	38	13.500000	21.886685	1.076968	1.708497
2	Valdecilla_Sardinero	39	13.433333	22.003843	1.102900	1.798454
3	Valdecilla_Sardinero	2	13.500000	21.806176	0.600231	0.958323
3	Sardinero_Valdecilla	3	14.060000	21.078003	1.435396	2.058699
3	Valdecilla_Sardinero	4	13.300000	22.236265	1.200521	1.815674
3	Sardinero_Valdecilla	5	13.394444	22.037673	1.058607	1.675817
3	Valdecilla_Sardinero	6	14.353333	20.619024	1.287623	1.901336
3	Sardinero_Valdecilla	7	13.010000	22.878455	1.576811	2.893037
3	Valdecilla_Sardinero	8	12.812500	23.111869	1.231634	2.303031
3	Sardinero_Valdecilla	9	14.036667	21.019345	0.957093	1.361300
3	Valdecilla_Sardinero	10	14.250000	20.821641	1.615635	2.515221
3	Sardinero_Valdecilla	11	14.703333	20.057417	0.895002	1.273171
3	Valdecilla_Sardinero	12	15.166667	19.535159	1.540382	1.983681
3	Valdecilla_Sardinero	14	16.430000	17.952478	1.040259	1.153694
3	Sardinero_Valdecilla	15	17.426667	17.031987	1.922007	1.830337
3	Valdecilla_Sardinero	16	16.145833	18.243685	0.796680	0.936654
3	Sardinero_Valdecilla	17	15.770000	18.915990	2.137931	2.538639
3	Valdecilla_Sardinero	18	16.270833	18.173171	1.464858	1.542414
3	Sardinero_Valdecilla	19	15.000000	19.723130	1.281221	1.805422
3	Valdecilla_Sardinero	20	15.573333	19.256837	2.377049	3.109662
3	Sardinero_Valdecilla	21	12.911111	22.771599	0.075154	0.132638
3	Valdecilla_Sardinero	22	16.779167	18.398115	4.591122	4.326129
3	Sardinero_Valdecilla	23	14.310000	21.275795	3.225217	4.091331
3	Valdecilla_Sardinero	24	14.533333	20.346370	1.268639	1.679265
3	Sardinero_Valdecilla	25	13.850000	21.334535	1.064516	1.745505
3	Valdecilla_Sardinero	26	15.854167	18.604413	1.073362	1.189835
3	Sardinero_Valdecilla	27	15.170833	19.430950	0.900347	1.160853
3	Valdecilla_Sardinero	28	16.266667	18.198047	1.580260	1.710490
3	Sardinero_Valdecilla	29	14.791667	20.150073	2.008708	2.694427
3	Valdecilla_Sardinero	30	14.920000	19.832706	1.299487	1.835869
3	Sardinero_Valdecilla	31	15.340000	19.292988	1.428995	1.713473
3	Valdecilla_Sardinero	32	15.280000	19.388963	1.429180	1.984923
3	Sardinero_Valdecilla	33	16.379167	18.077683	1.594340	1.754318
3	Valdecilla_Sardinero	34	17.100000	17.251428	1.117723	1.118268
3	Sardinero_Valdecilla	35	15.370000	19.418949	2.114185	2.650958
3	Sardinero_Valdecilla	37	14.346667	20.557218	0.925218	1.253929
3	Valdecilla_Sardinero	38	14.973333	19.895581	2.024558	2.423930
3	Sardinero_Valdecilla	39	12.036667	24.706723	1.436015	2.954804
101	Sardinero_Valdecilla	1	16.510000	17.847310	0.871668	0.945908
101	Sardinero_Valdecilla	2	16.883333	17.414998	0.212132	0.218812
101	Valdecilla_Sardinero	2	16.916667	17.471269	1.490339	1.567517
101	Sardinero_Valdecilla	3	24.046667	13.650824	9.718227	4.542383
102	Sardinero_Valdecilla	2	15.480000	19.077273	1.181771	1.393931
102	Valdecilla_Sardinero	3	15.753333	19.478386	3.668795	4.496423
102	Sardinero_Valdecilla	4	17.077778	17.220891	0.372802	0.380463