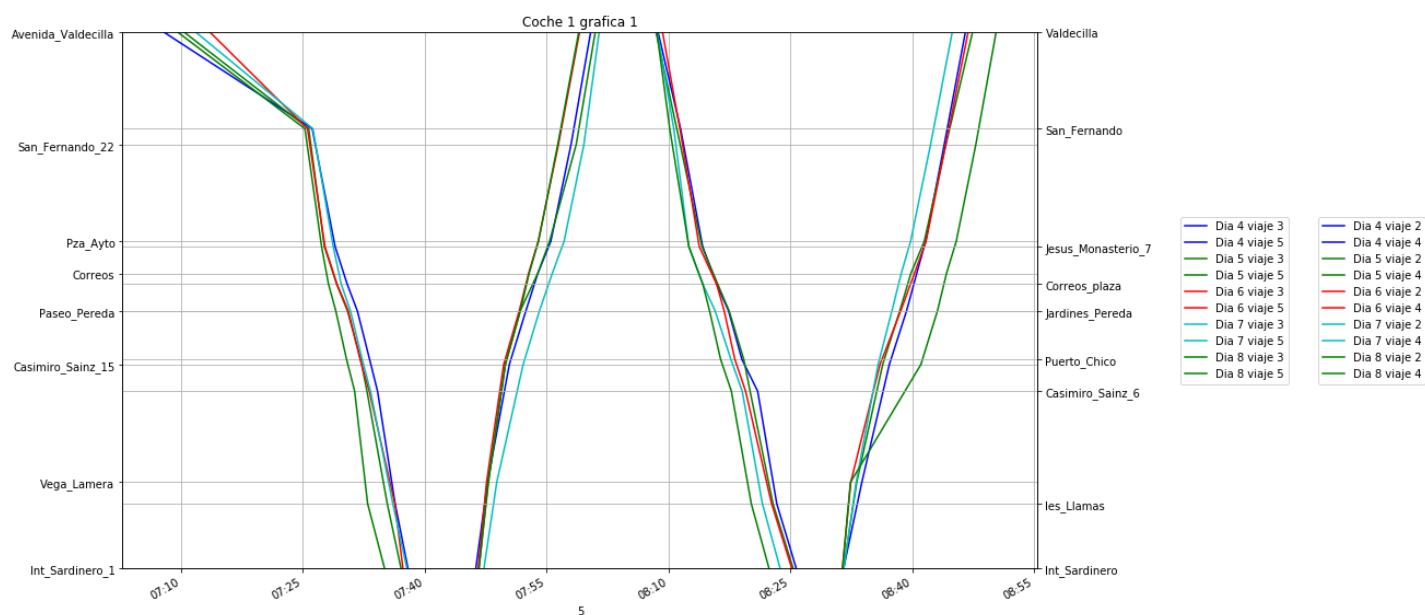


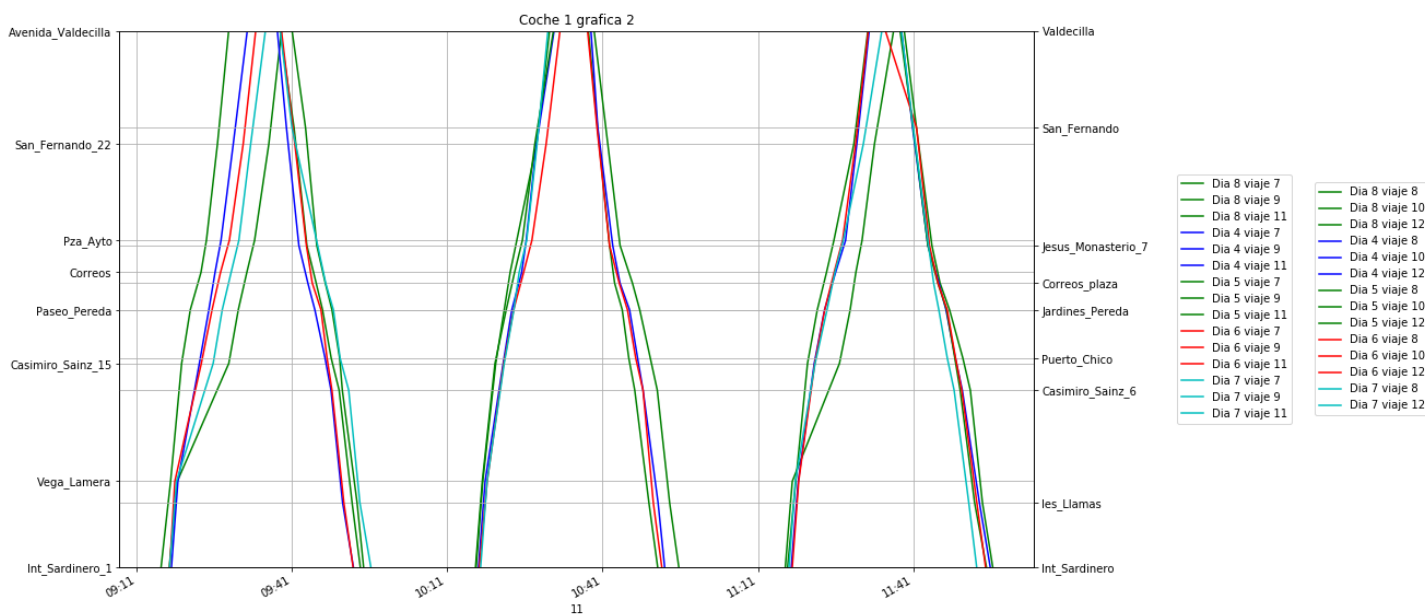
Coche 1 grafica 1

Gráfico evolución:



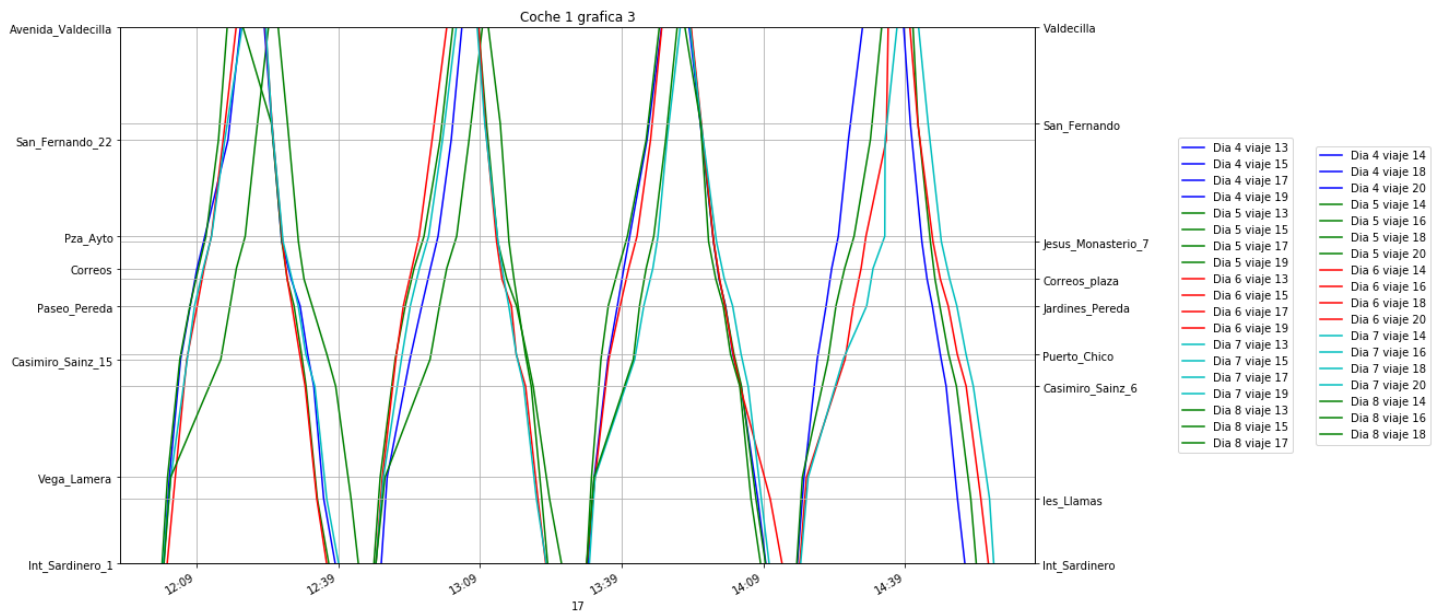
Coche 1 grafica 2

Gráfico evolución:



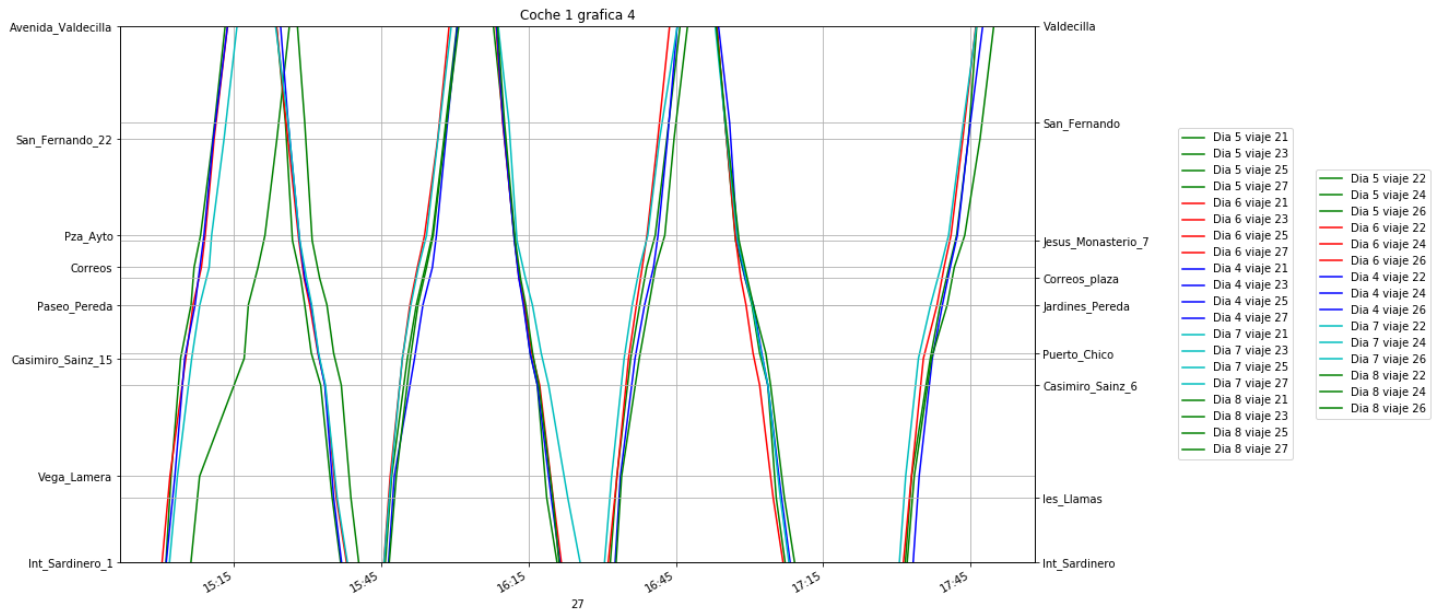
Coche 1 grafica 3

Gráfico evolución:



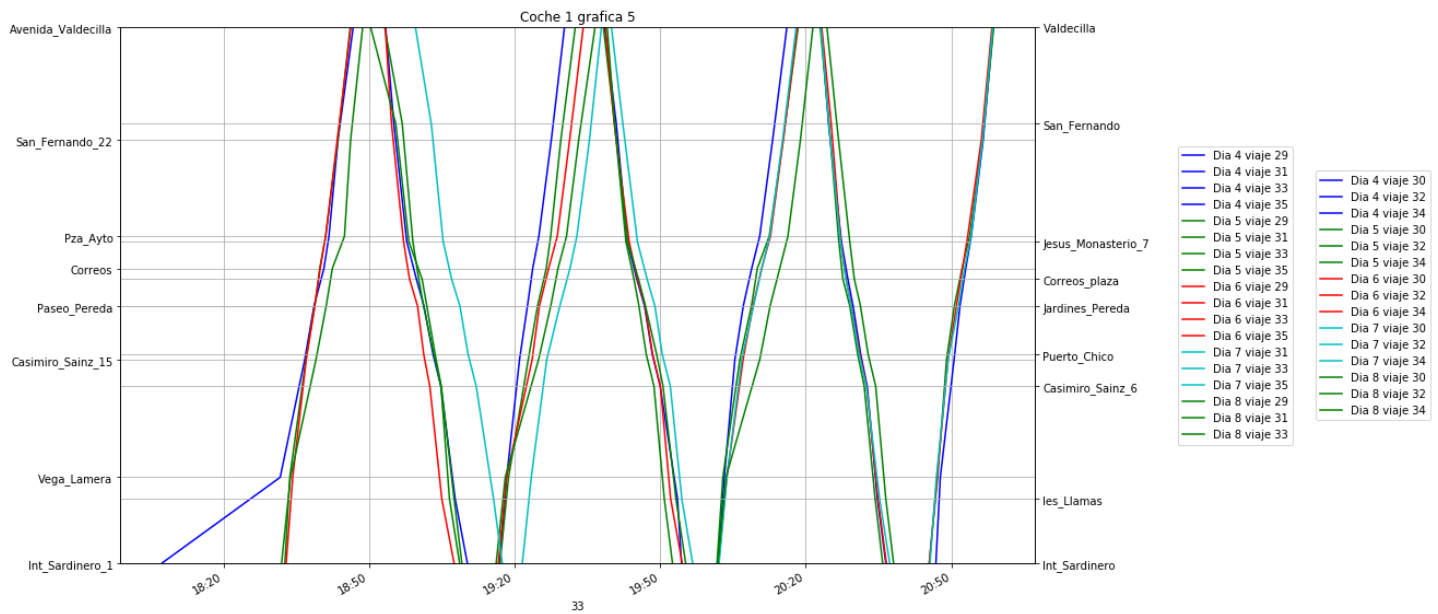
Coche 1 grafica 4

Gráfico evolución:



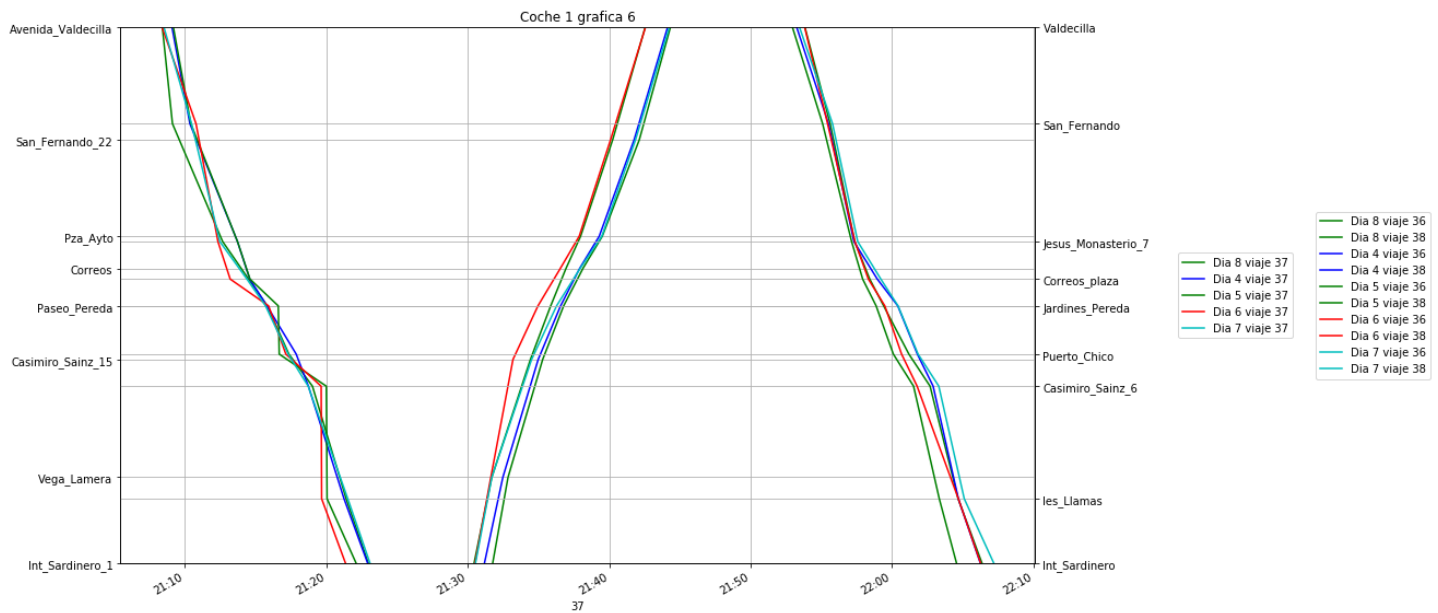
Coche 1 grafica 5

Gráfico evolución:



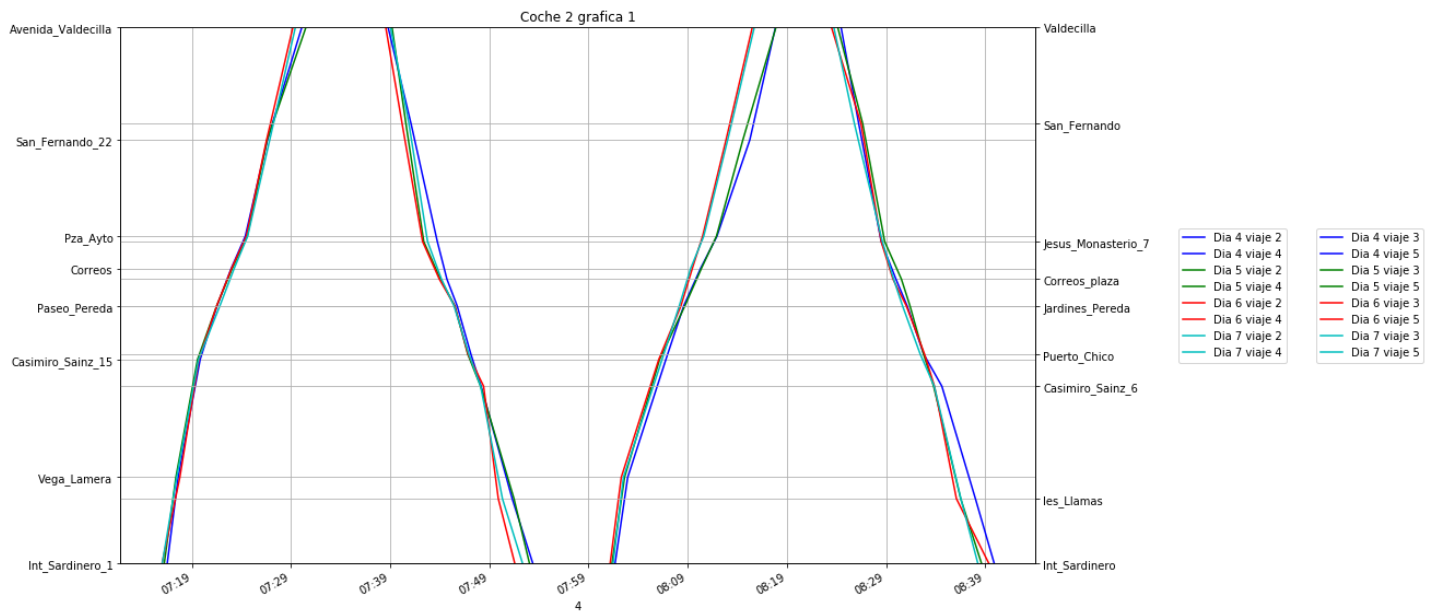
Coche 1 grafica 6

Gráfico evolución:



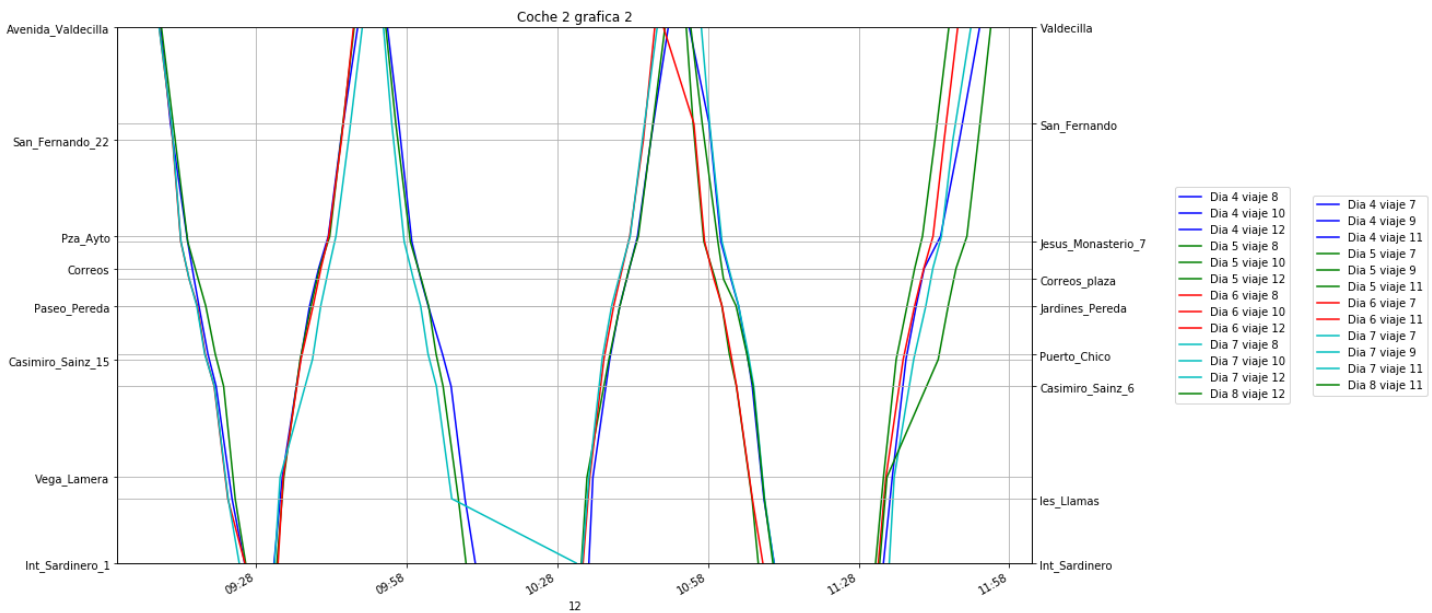
Coche 2 grafica 1

Gráfico evolución:



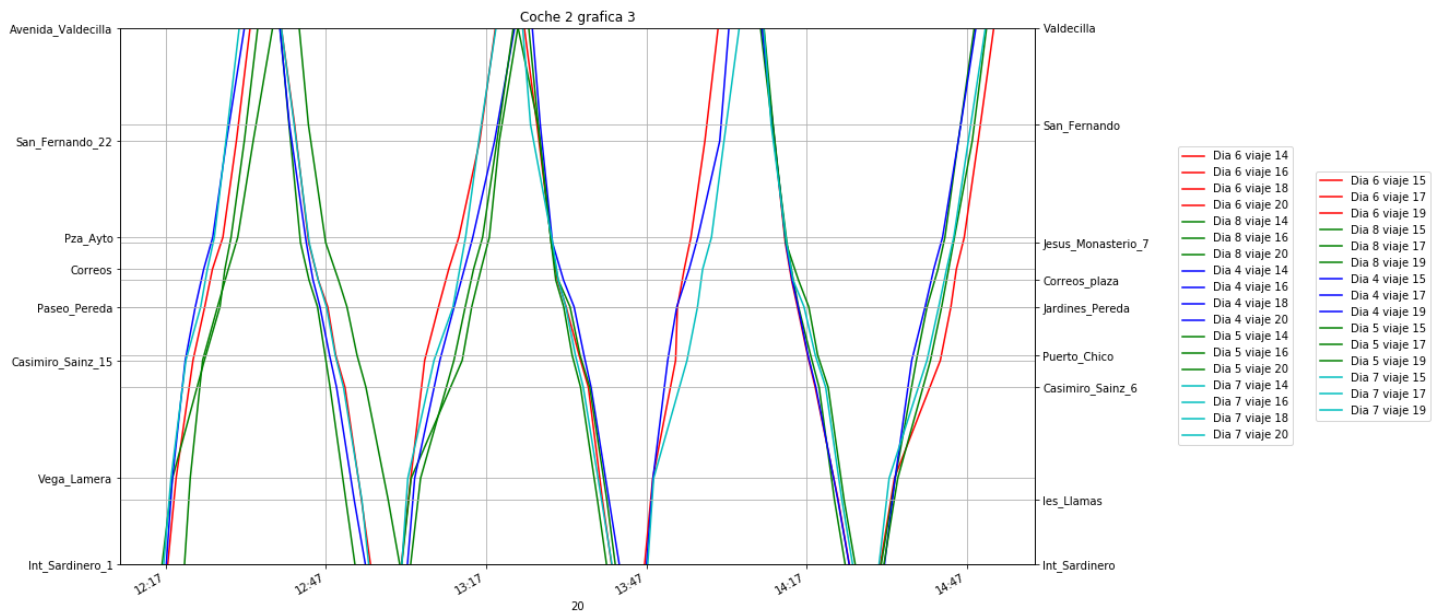
Coche 2 grafica 2

Gráfico evolución:



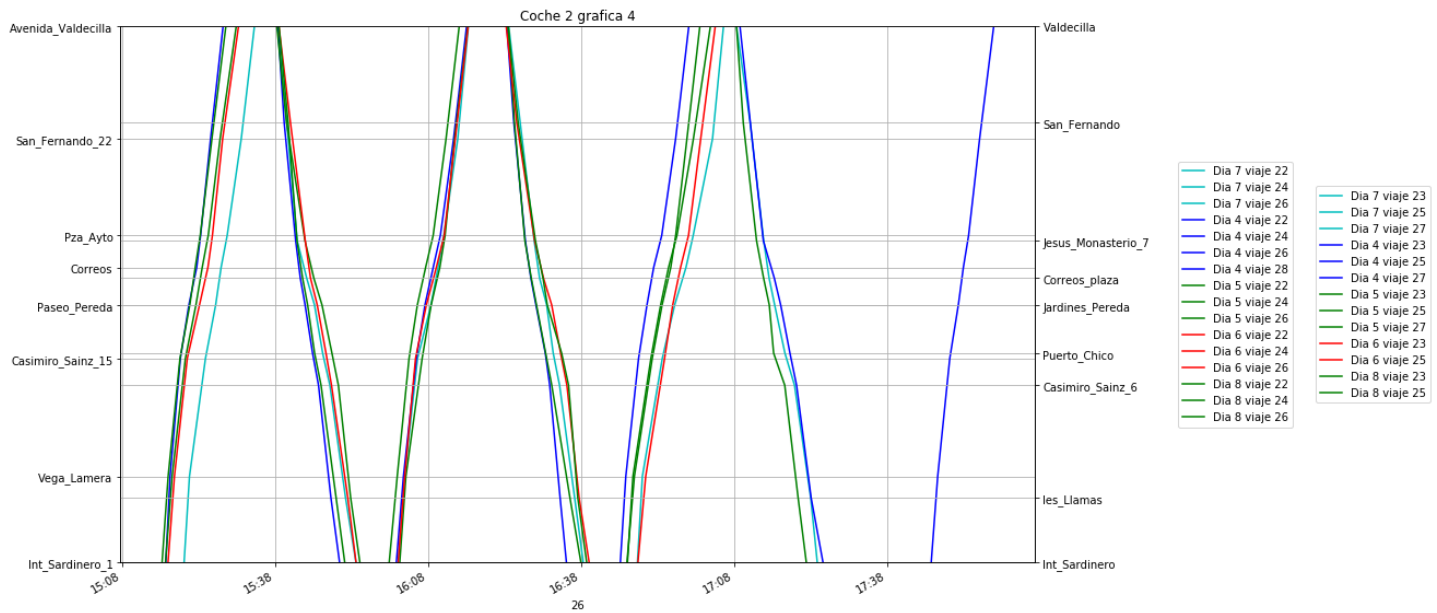
Coche 2 grafica 3

Gráfico evolución:



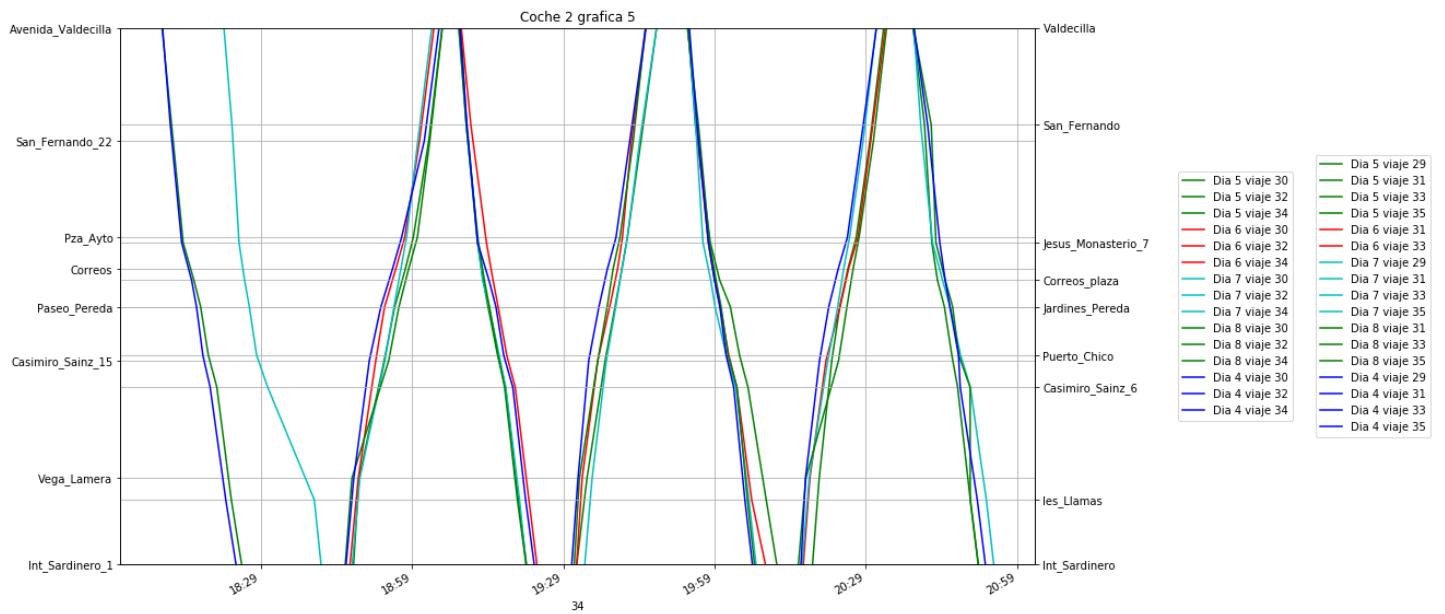
Coche 2 grafica 4

Gráfico evolución:



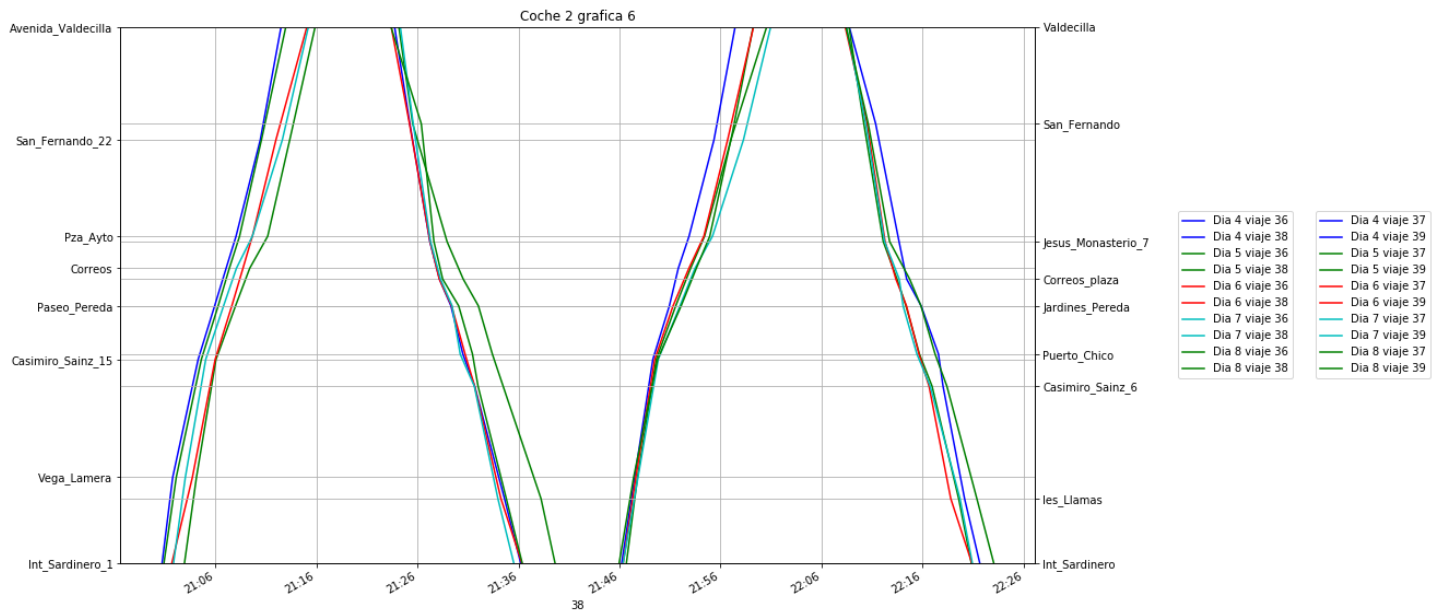
Coche 2 grafica 5

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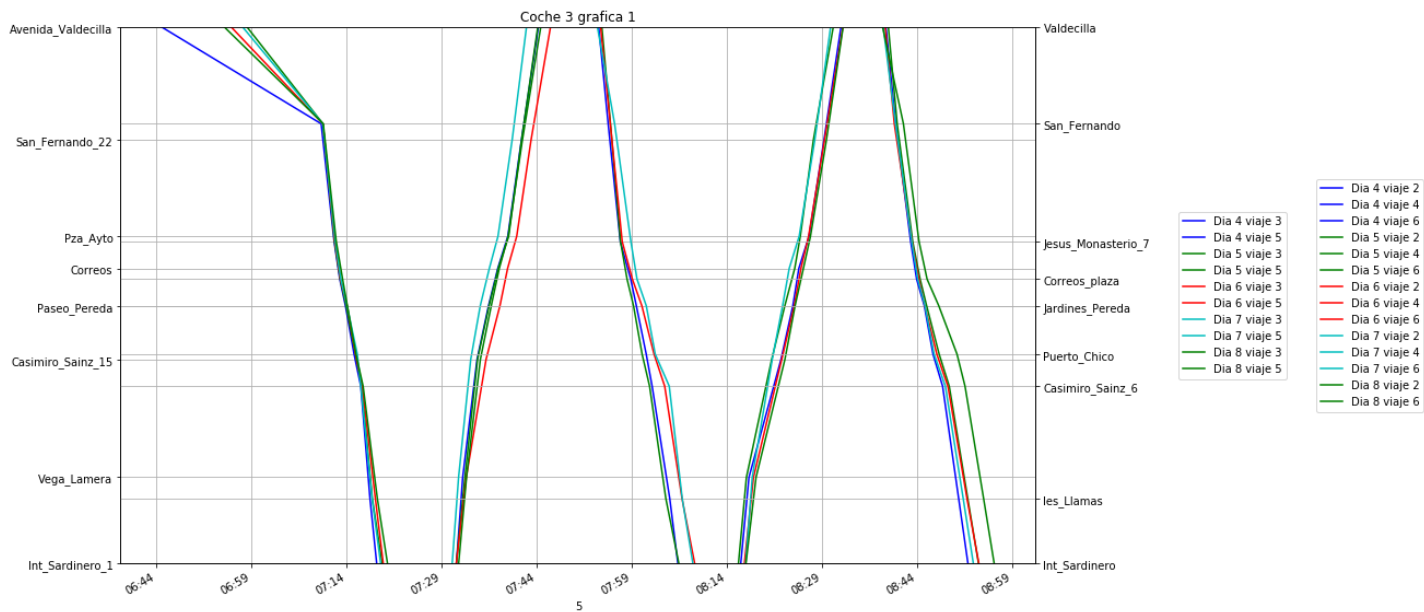
Coche 2 grafica 6

Gráfico evolución:



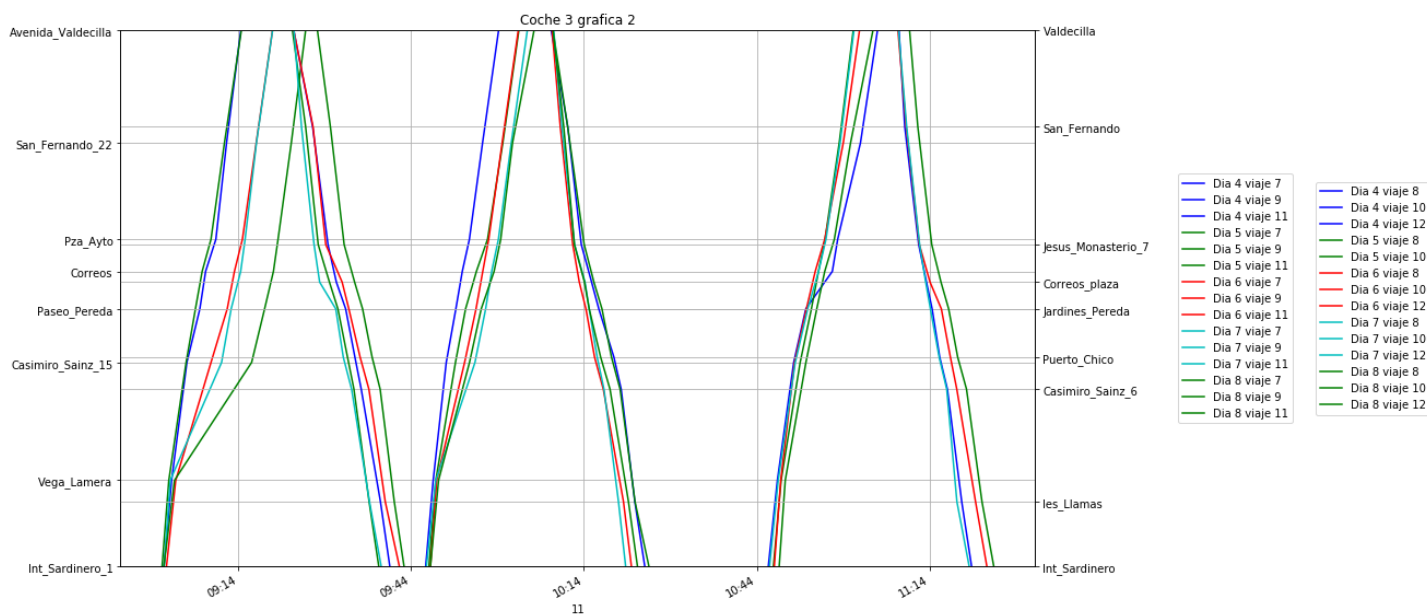
Coche 3 grafica 1

Gráfico evolución:



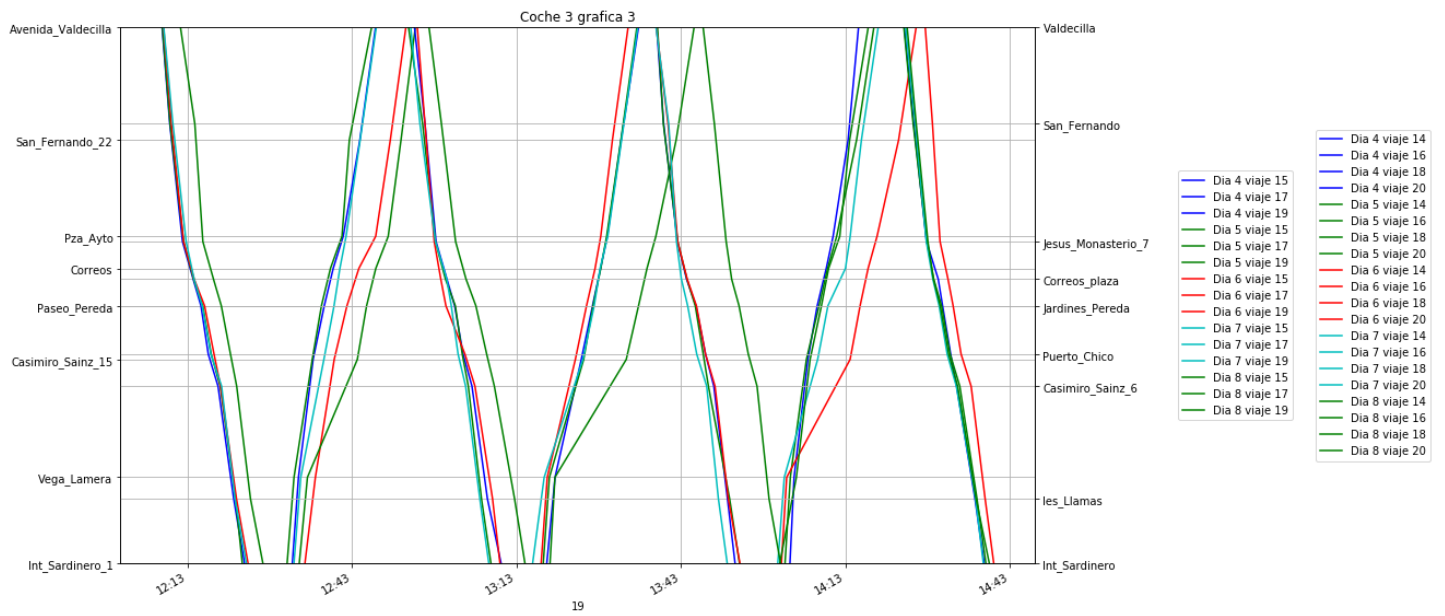
Coche 3 grafica 2

Gráfico evolución:



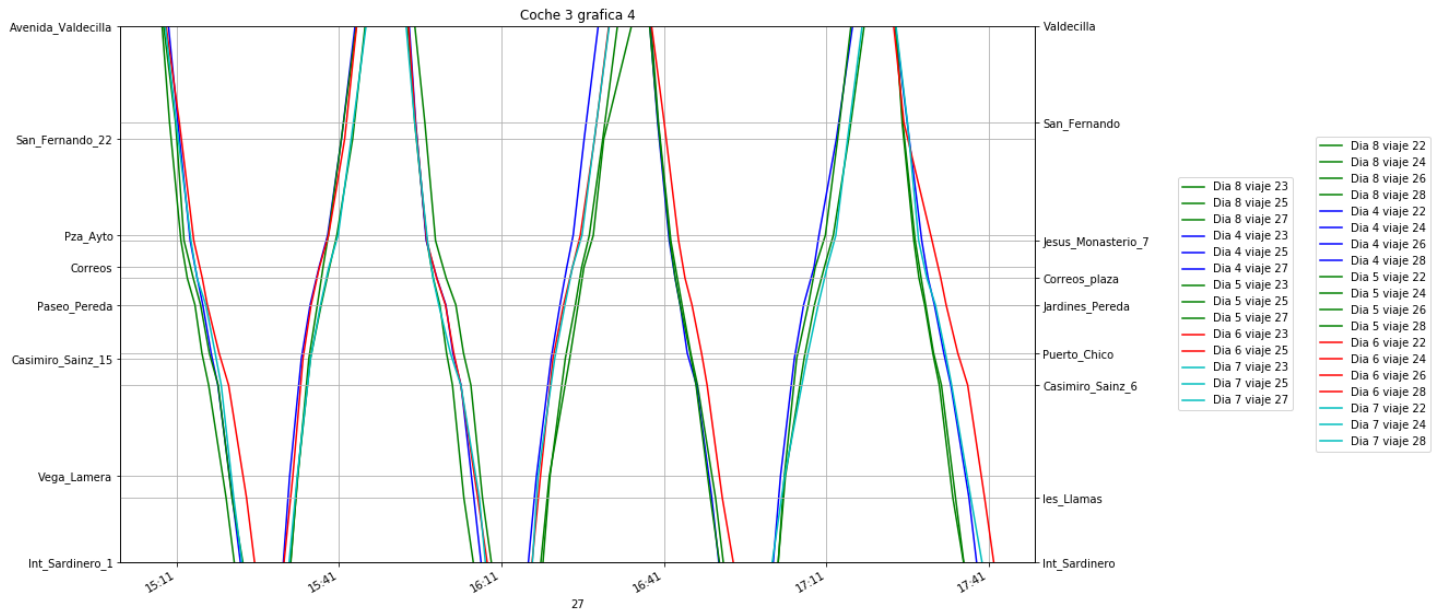
Coche 3 grafica 3

Gráfico evolución:



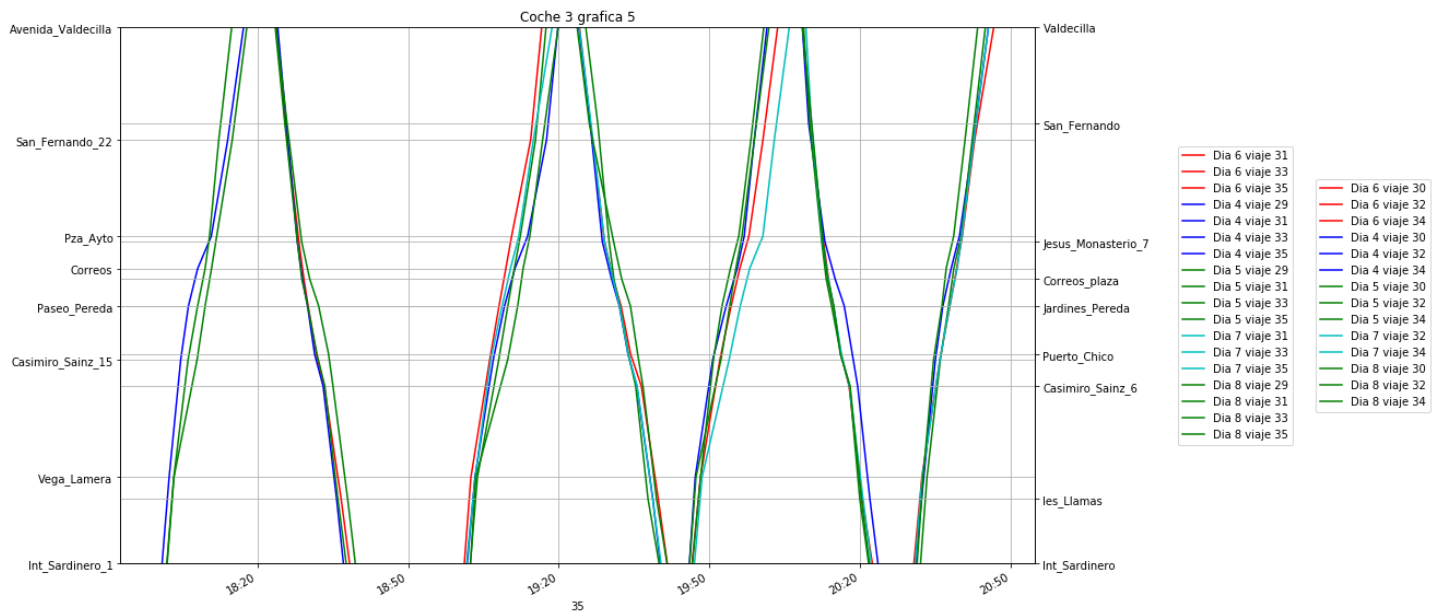
Coche 3 grafica 4

Gráfico evolución:



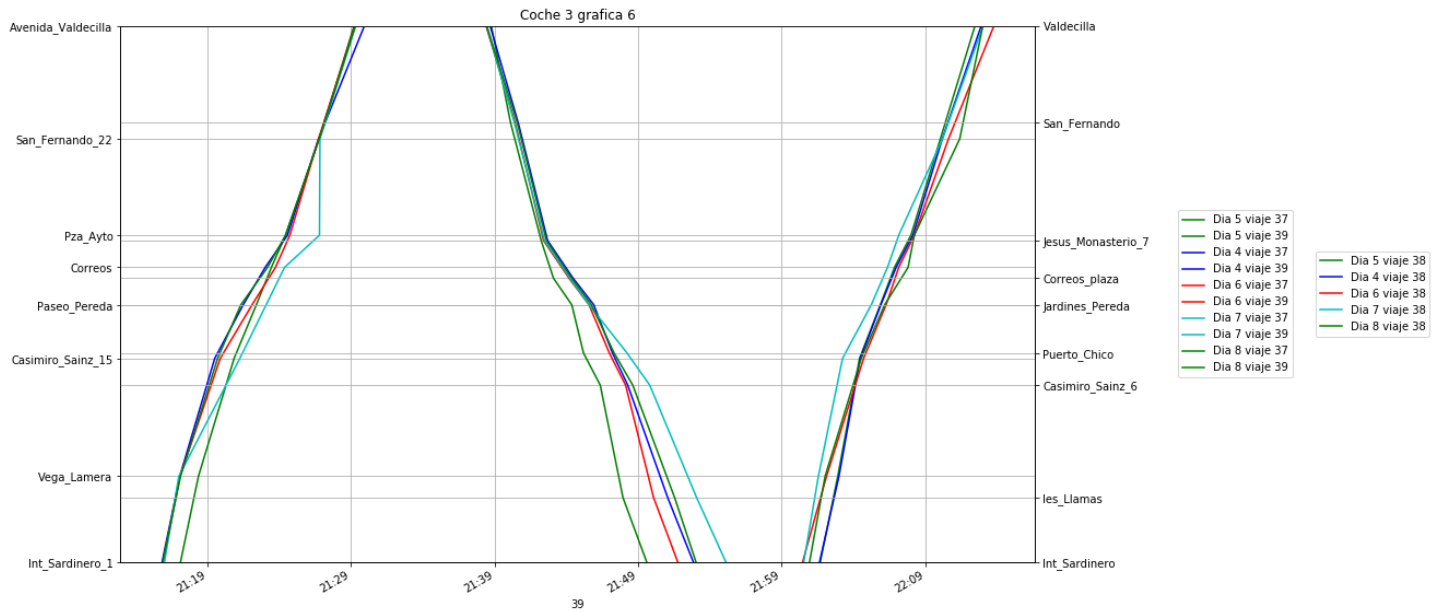
Coche 3 grafica 5

Gráfico evolución:



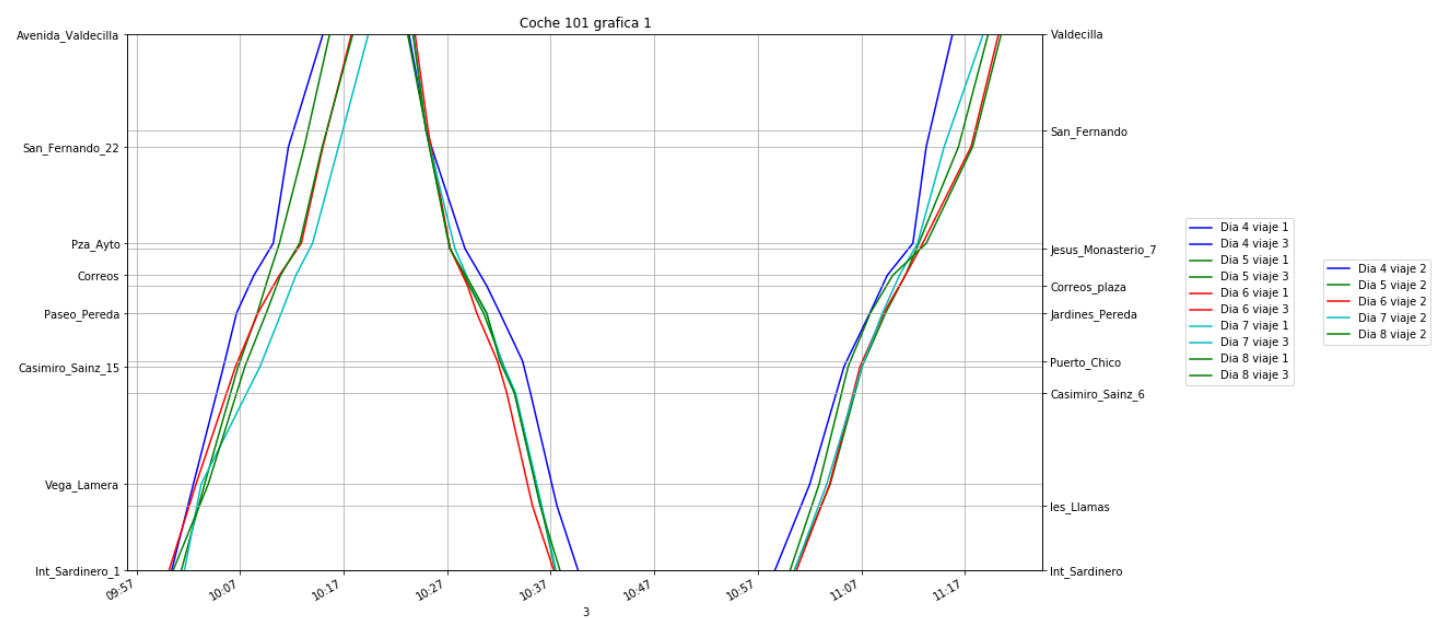
Coche 3 grafica 6

Gráfico evolución:



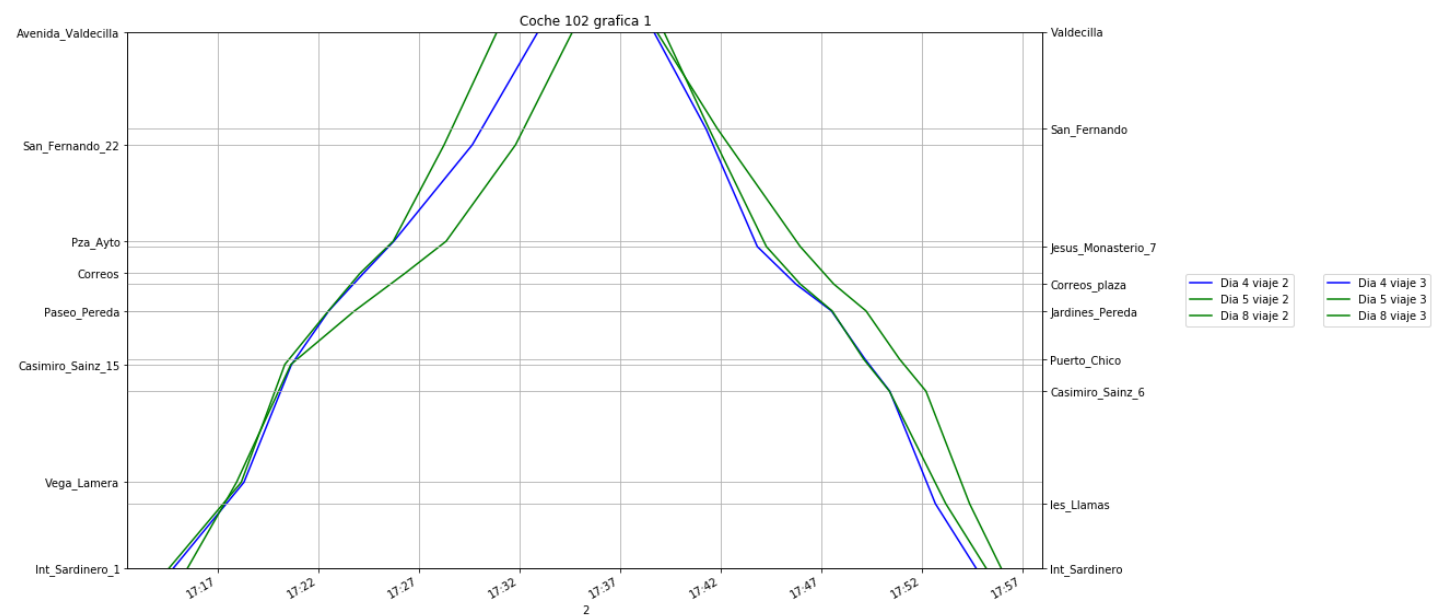
Coche 101 grafica 1

Gráfico evolución:



Coche 102 grafica 1

Gráfico evolución:



Coche 102 grafica 1

Gráfico evolución:

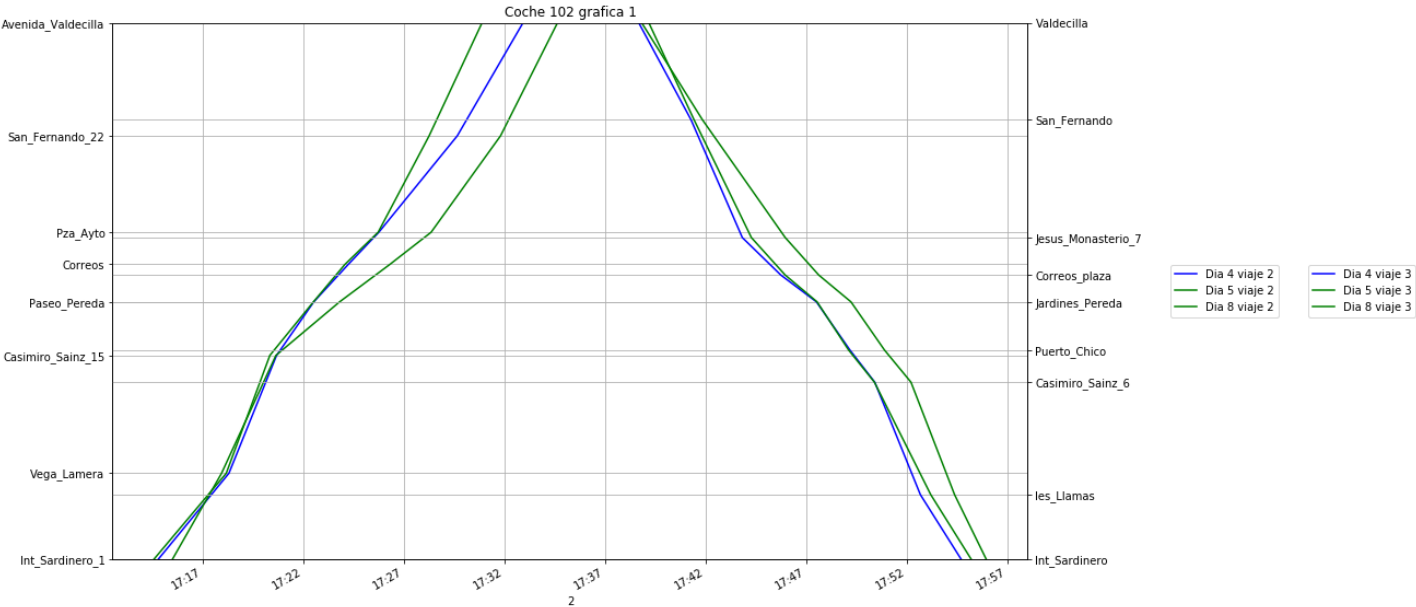


Tabla resumen velocidades y tiempos

coche	sentido	viaje	media tiempo viaje (minutos)	media velocidad comercial (km/h)	desviación tiempo viaje	desviación velocidad comercial
1	Valdecilla_Sardinerio	2	26.336667	11.229050	2.307638	0.943297
1	Sardinerio_Valdecilla	3	13.463333	21.939556	1.014301	1.700323
1	Valdecilla_Sardinerio	4	15.723333	18.809594	1.324219	1.654579
1	Sardinerio_Valdecilla	5	15.696667	18.968192	2.022217	2.328405
1	Sardinerio_Valdecilla	7	16.870000	17.980093	3.364426	3.506252
1	Valdecilla_Sardinerio	8	15.036667	19.705011	1.532491	1.878686
1	Sardinerio_Valdecilla	9	14.460000	20.408471	0.972083	1.425156
1	Valdecilla_Sardinerio	10	14.554167	20.309483	1.263034	1.678926
1	Sardinerio_Valdecilla	11	16.790000	17.823151	2.615355	2.519075
1	Valdecilla_Sardinerio	12	16.930000	17.509241	1.700956	1.797171
1	Sardinerio_Valdecilla	13	16.673333	18.110472	3.258037	3.085530
1	Valdecilla_Sardinerio	14	15.676667	19.004744	1.984264	2.491543
1	Sardinerio_Valdecilla	15	17.646667	16.970177	2.861997	2.405260
1	Valdecilla_Sardinerio	16	14.716667	20.264974	2.075742	2.735790
1	Sardinerio_Valdecilla	17	17.016667	17.457419	1.970864	1.945670
1	Valdecilla_Sardinerio	18	16.790000	17.599299	1.396155	1.337042
1	Sardinerio_Valdecilla	19	17.708333	16.960103	2.806919	3.024174
1	Valdecilla_Sardinerio	20	14.704167	20.225247	1.817017	2.493379
1	Sardinerio_Valdecilla	21	14.320000	21.228427	3.262697	3.849851
1	Valdecilla_Sardinerio	22	13.346667	22.127648	1.010734	1.646205
1	Sardinerio_Valdecilla	23	13.943333	21.106281	0.490125	0.744845
1	Valdecilla_Sardinerio	24	13.656667	21.762764	1.704431	2.354279
1	Sardinerio_Valdecilla	25	13.733333	21.519855	1.095889	1.756450
1	Valdecilla_Sardinerio	26	14.573333	20.244844	0.971940	1.332808
1	Sardinerio_Valdecilla	27	15.336667	19.287236	1.388714	1.624591
1	Sardinerio_Valdecilla	29	20.729167	17.232713	12.545151	6.830097
1	Valdecilla_Sardinerio	30	16.636667	17.853726	1.853952	2.047031
1	Sardinerio_Valdecilla	31	16.610000	18.044623	2.592178	2.789223
1	Valdecilla_Sardinerio	32	15.756667	18.713487	0.928978	1.161468
1	Sardinerio_Valdecilla	33	16.523333	17.985016	1.955285	2.041936
1	Valdecilla_Sardinerio	34	13.476667	21.838662	0.492668	0.792923
1	Sardinerio_Valdecilla	35	12.733333	23.135775	0.647931	1.225966
1	Valdecilla_Sardinerio	36	13.770000	21.410791	0.813463	1.270615
1	Sardinerio_Valdecilla	37	12.673333	23.250729	0.681766	1.218732
1	Valdecilla_Sardinerio	38	12.653333	23.306361	0.782925	1.444546
2	Sardinerio_Valdecilla	2	13.612500	21.617030	0.474220	0.736319
2	Valdecilla_Sardinerio	3	13.683333	21.527021	0.695621	1.076630
2	Sardinerio_Valdecilla	4	15.316667	19.283798	1.203236	1.511127
2	Valdecilla_Sardinerio	5	15.070833	19.537587	0.680873	0.876895
2	Valdecilla_Sardinerio	7	16.616667	17.703896	0.469633	0.510387
2	Sardinerio_Valdecilla	8	16.125000	18.297764	1.116750	1.256109
2	Valdecilla_Sardinerio	9	23.933333	14.298536	12.508208	5.799006
2	Sardinerio_Valdecilla	10	15.425000	19.123084	1.025463	1.267124
2	Valdecilla_Sardinerio	11	16.366667	18.215921	2.223985	2.335483
2	Sardinerio_Valdecilla	12	17.580000	17.099189	3.031236	2.740079
2	Sardinerio_Valdecilla	14	15.706667	18.853520	1.514220	1.758980
2	Valdecilla_Sardinerio	15	16.366667	18.123465	1.714440	1.922562
2	Sardinerio_Valdecilla	16	19.233333	15.384590	1.744356	1.362027
2	Valdecilla_Sardinerio	17	16.393333	17.936411	0.207699	0.226067
2	Sardinerio_Valdecilla	18	15.427778	19.209443	1.683361	2.106240

coche	sentido	vaje	media tiempo viaje (minutos)	media velocidad comercial (km/h)	desviación tiempo viaje	desviación velocidad comercial
2	Valdecilla_Sardiner	19	16.413333	17.923643	0.463591	0.503652
2	Sardiner_Valdecilla	20	18.960000	15.609942	1.731273	1.420823
2	Sardiner_Valdecilla	22	13.036667	22.708335	1.167821	2.187477
2	Valdecilla_Sardiner	23	14.340000	20.765363	1.771283	2.669920
2	Sardiner_Valdecilla	24	13.656667	21.531099	0.183182	0.293757
2	Valdecilla_Sardiner	25	14.426667	20.640031	1.729427	2.735811
2	Sardiner_Valdecilla	26	15.193333	19.485110	1.405624	1.821222
2	Valdecilla_Sardiner	27	15.261111	19.376061	1.383467	1.843916
2	Sardiner_Valdecilla	28	12.250000	24.000000	NaN	NaN
2	Valdecilla_Sardiner	29	16.522222	18.041949	2.439395	2.521757
2	Sardiner_Valdecilla	30	17.530000	16.856124	1.386462	1.343676
2	Valdecilla_Sardiner	31	13.866667	21.274233	0.913327	1.372684
2	Sardiner_Valdecilla	32	14.516667	20.298873	0.792237	1.061058
2	Valdecilla_Sardiner	33	14.433333	20.670386	2.023714	2.693333
2	Sardiner_Valdecilla	34	15.493333	19.089699	1.363339	1.619195
2	Valdecilla_Sardiner	35	13.933333	21.255214	1.408900	2.043305
2	Sardiner_Valdecilla	36	12.683333	23.243588	0.735319	1.370882
2	Valdecilla_Sardiner	37	13.003333	22.851564	1.539092	2.572523
2	Sardiner_Valdecilla	38	13.160000	22.561725	1.440274	2.535885
2	Valdecilla_Sardiner	39	12.913333	22.865669	0.984702	1.616351
3	Valdecilla_Sardiner	2	25.273333	11.962801	5.094259	2.063519
3	Sardiner_Valdecilla	3	13.040000	22.676035	1.127534	1.886755
3	Valdecilla_Sardiner	4	13.608333	21.811512	1.529615	2.457287
3	Sardiner_Valdecilla	5	14.983333	19.689084	0.946998	1.331680
3	Valdecilla_Sardiner	6	14.723333	20.172503	1.725889	2.188571
3	Sardiner_Valdecilla	7	17.766667	17.409956	4.578513	4.254974
3	Valdecilla_Sardiner	8	16.016667	18.472317	1.468418	1.589358
3	Sardiner_Valdecilla	9	15.790000	18.910136	2.113502	2.731783
3	Valdecilla_Sardiner	10	14.740000	20.172134	1.726614	2.424326
3	Sardiner_Valdecilla	11	15.693333	18.961551	2.010963	2.227294
3	Valdecilla_Sardiner	12	13.712500	21.642874	1.539022	2.408674
3	Valdecilla_Sardiner	14	15.010000	19.593070	0.295945	0.388615
3	Sardiner_Valdecilla	15	17.023333	17.590899	2.697262	2.535845
3	Valdecilla_Sardiner	16	15.516667	19.038104	1.228651	1.435337
3	Sardiner_Valdecilla	17	19.013333	15.978944	4.233947	2.918195
3	Valdecilla_Sardiner	18	14.306667	20.614136	0.878019	1.310846
3	Sardiner_Valdecilla	19	17.533333	17.590254	4.442425	4.175743
3	Valdecilla_Sardiner	20	14.220000	20.768835	1.027159	1.623468
3	Valdecilla_Sardiner	22	14.330000	20.634540	1.247520	1.699639
3	Sardiner_Valdecilla	23	13.330000	22.115220	0.760153	1.310417
3	Valdecilla_Sardiner	24	13.720000	21.535851	1.053724	1.748187
3	Sardiner_Valdecilla	25	14.330000	20.669103	1.432141	1.916338
3	Valdecilla_Sardiner	26	13.500000	21.875680	1.076431	1.638082
3	Sardiner_Valdecilla	27	15.125000	19.565554	1.394865	1.847048
3	Valdecilla_Sardiner	28	14.883333	20.184942	2.485374	3.250590
3	Sardiner_Valdecilla	29	15.005556	19.800528	1.818297	2.572620
3	Valdecilla_Sardiner	30	14.395833	20.515117	1.118313	1.591562
3	Sardiner_Valdecilla	31	16.620000	17.779102	1.308859	1.422811
3	Valdecilla_Sardiner	32	16.496667	17.912470	1.290747	1.451895
3	Sardiner_Valdecilla	33	16.280000	18.226501	1.775426	1.928498
3	Valdecilla_Sardiner	34	13.650000	21.604666	0.865785	1.305821
3	Sardiner_Valdecilla	35	14.000000	21.201171	1.512127	2.335452
3	Sardiner_Valdecilla	37	13.246667	22.249428	0.723264	1.264585
3	Valdecilla_Sardiner	38	13.910000	21.560640	2.119571	3.524068
3	Sardiner_Valdecilla	39	11.976667	24.686695	1.006548	2.070999
101	Sardiner_Valdecilla	1	16.320000	18.180391	1.708939	1.978211
101	Valdecilla_Sardiner	2	14.376667	20.545592	1.139786	1.512372
101	Sardiner_Valdecilla	3	18.783333	15.706716	1.233671	1.039665
102	Sardiner_Valdecilla	2	18.429167	16.055018	1.671403	1.503428
102	Valdecilla_Sardiner	3	16.329167	18.018120	0.523941	0.562134
102	Sardiner_Valdecilla	4	23.280000	13.735341	8.242028	4.011704