

Statistical mapping of USPC to CPC for Class 331

USPC Subclass	Most statistically relevant CPC groups
331/94.1	H 03L 7/26, G 04F 5/14, H 01S 1/06, G 04F 5/145, H 01S 1/02
331/1R	H 03L 7/02, H 03L 7/085, H 03L 7/00, H 03B 2202/076, H 03J 7/04
331/2	H 03L 7/23, H 03L 7/07, H 03L 7/099, H 03L 7/0805, H 03L 7/22
331/3	H 03L 7/26, G 04F 5/14, H 01S 1/06, H 05H 3/00, H 01S 1/00
331/4	H 03L 7/12, H 03L 7/20, H 03B 23/00, H 03B 2200/0092, H 03J 7/047
331/5	H 03L 7/04, H 03B 9/10, H 01J 25/50, H 01J 25/52, H 01J 23/15
331/6	H 03L 7/04, H 03J 7/04, H 01J 25/24, H 03C 3/09, H 03L 5/00
331/7	H 03L 7/04, H 03L 7/02, H 01J 25/24, H 03B 9/04, H 03J 7/026
331/8	H 04N 5/126, H 03L 7/099, H 03L 7/0898, H 03L 7/107, H 03L 7/08
331/9	H 03L 7/04, H 03D 9/04, H 03L 7/00, G 02F 2/00, H 01S 3/0064
331/10	H 03L 7/189, H 03L 2207/06, H 03L 7/10, H 03L 7/099, H 03L 7/107
331/11	H 03L 7/087, H 03L 7/113, H 03L 7/10, H 03L 7/0891, H 03L 7/18
331/12	H 03L 7/087, H 03L 7/06, H 03L 7/10, H 03L 7/08, H 03C 3/09
331/13	H 02P 9/42, H 03L 7/02, G 05F 1/00, H 03B 21/02, H 03L 7/06
331/14	H 03L 7/14, H 03L 7/0891, H 03L 7/10, H 03L 7/18, H 03L 7/093
331/15	H 03L 7/099, H 03L 7/093, H 03L 7/107, H 03B 5/04, H 03B 2201/0208

331/16	H 03L 7/18, H 03L 7/099, H 03L 7/093, H 03L 7/0891, H 03L 7/10
331/17	H 03L 7/093, H 03L 7/18, H 03L 7/107, H 03L 7/0891, H 03L 7/099
331/18	H 03L 7/183, H 03L 7/18, H 03L 7/1806, H 03L 7/23, H 03L 7/0991
331/19	H 03L 7/20, H 03L 7/08, H 03B 21/02, H 03B 5/34, H 03J 7/065
331/20	H 04N 5/126, H 04N 5/123, G 09G 5/008, H 03C 3/09, H 03K 4/16
331/21	H 04N 5/126, H 04N 5/06, A 61B 5/107, G 01B 3/30, G 01B 5/00
331/22	H 03L 7/16, H 03B 21/02, H 03B 21/04, H 03L 7/20, H 03L 7/22
331/23	H 03C 3/0925, H 03C 3/0933, H 03L 7/1976, H 03C 3/0941, H 03C 3/0966
331/24	H 03L 7/02, G 05D 3/14, H 03B 5/34, H 03C 3/09, H 03J 7/30
331/25	H 03L 7/085, H 03L 7/18, H 03L 7/0891, H 03L 7/087, H 03L 7/091
331/26	H 03L 7/06, H 03L 7/02, H 03L 7/08, H 03L 7/091, H 03L 7/20
331/27	H 03D 13/004, H 03L 7/091, H 03L 7/06, H 03L 7/08, H 03L 7/081
331/28	H 03L 7/06, H 03L 7/02, H 03L 7/08, H 04N 5/126, H 03B 5/34
331/29	G 04C 13/027, H 02P 5/486, H 03B 5/30, H 03B 19/12, H 03J 7/16
331/30	H 03J 7/04, G 01S 1/02, H 03B 5/10, H 03B 21/00, H 03B 21/04
331/31	H 03L 7/02, H 03L 7/16, H 03B 21/02, H 03D 7/02, H 03F 3/54
331/32	H 03J 7/042, B 61L 3/221, G 01R 23/09, G 01V 3/34, H 03B 5/04
331/33	H 03J 7/04, H 03L 7/02, H 03L 7/16

331/34	H 03L 7/099, H 03L 7/0995, H 03L 2207/06, H 03K 3/0231, H 03L 7/183
331/35	H 03J 7/16, G 01C 19/574, G 01S 13/586, H 01J 37/32082, H 03H 7/40
331/36R	H 03J 7/042, H 03L 7/099, H 03B 5/02, H 03B 5/04, H 03B 5/24
331/36C	H 03L 7/099, H 03B 2201/0208, H 03B 2200/004, H 03K 3/0231, H 03L 7/10
331/36L	H 03L 7/099, H 03L 7/18, H 01L 23/66, H 01L 24/49, H 01L 2223/6611
331/1A	H 03L 7/095, H 03L 7/085, H 03L 7/0891, H 03L 7/10, H 03L 7/18
331/37	H 03B 21/02, H 03B 21/01, H 03B 5/34, H 03B 5/36, H 03B 2200/0008
331/38	H 03B 21/02, H 03B 21/04, H 03B 21/01, H 03B 21/025, H 03B 27/00
331/39	H 03B 21/04, H 03B 21/02, H 03B 21/01, H 03B 23/00, G 01R 23/00
331/40	H 03B 21/01, H 03B 5/34, H 03B 21/02, H 03B 23/00, H 03L 5/00
331/41	H 03B 21/02, H 03B 5/30, H 03L 1/02, H 03L 7/24, G 04C 3/107
331/42	H 03B 19/10, H 03B 21/02, G 01L 9/12, H 03L 7/18, G 01L 9/0086
331/43	H 03B 21/01, H 03B 5/364, H 03B 19/00, H 03B 19/08, H 03B 25/00
331/44	H 03L 7/099, H 03L 7/18, H 03L 7/10, H 03L 2207/06, G 01R 23/00
331/45	H 03B 27/00, H 03K 3/0315, H 03L 7/0995, H 03B 2200/0078, H 03B 5/20
331/46	H 03B 27/00, H 03K 3/0315, H 03B 1/00, H 03L 7/24, H 03K 3/354
331/47	H 03L 7/24, H 03B 1/00, H 03B 23/00, H 03K 3/80, G 08B 3/10
331/48	G 10H 5/02, H 03B 2201/0208, H 03B 5/1847, H

	03B 1/00, H 03B 19/10
331/49	H 03B 1/00, G 06F 1/08, G 06F 11/1604, H 03B 5/1847, H 03B 2200/0048
331/50	H 03B 19/12, H 03B 5/1835, H 04N 5/06, E 01B 11/04, G 01S 1/02
331/51	H 03B 19/12, H 03B 21/02, H 04N 5/06, G 10H 5/10, H 03B 21/01
331/52	H 03K 3/30, A 61N 1/36, A 61N 1/36014, G 10H 5/07, H 02M 3/3388
331/53	H 03B 5/34, H 03B 19/00, H 03B 19/10, H 03B 19/18, G 06F 7/62
331/54	H 03B 5/36, H 03B 7/10, H 03D 11/02, H 03K 3/04, H 03K 3/16
331/55	H 03L 7/24, H 03L 7/00, H 03K 3/78, G 06F 1/10, H 03B 27/00
331/56	H 03B 9/143, H 03B 5/1847, H 03B 7/146, H 03B 5/1852, H 03B 5/36
331/57	H 03K 3/0315, H 03L 7/0995, H 03K 3/0322, H 03K 3/0231, H 03K 3/354
331/58	H 03F 3/66, H 04B 3/08, G 11B 5/03, H 03B 5/08, H 03B 5/10
331/59	H 03B 5/34, H 03B 5/10, H 03B 5/24, H 03B 5/36, H 04B 1/26
331/60	H 03B 25/00, A 61N 1/40, H 03B 5/34, H 03B 19/10, H 03B 2200/004
331/61	H 03B 5/36, H 03K 3/08, H 03B 2200/0098, H 03K 3/0231, H 03K 4/50
331/62	H 05B 6/04, H 03F 1/548, H 03B 5/10, H 02M 7/53846, H 02M 7/53862
331/63	H 05B 6/50, A 61N 1/40, A 61N 1/403, H 02H 7/20, H 03B 5/34
331/64	H 03B 5/10, H 03B 5/1835, H 03B 5/34, A 61N 1/40, G 01R 21/00
331/65	H 03K 17/9547, G 01V 3/102, H 03K 17/14, H 03B 5/04, H 03K 3/0231

331/66	H 03L 1/026, H 03B 5/04, G 01K 7/01, G 01K 7/32, H 03L 1/025
331/67	H 03B 5/34, H 05K 2201/10371, H 03B 1/04, H 03B 5/10, H 03F 3/54
331/68	H 03H 9/0547, H 03H 9/1021, H 03B 5/32, H 03H 9/1014, H 03L 1/04
331/69	H 03L 1/04, H 03B 5/04, H 03L 1/028, H 03H 9/08, H 05K 1/0212
331/70	H 03L 1/04, H 03B 5/1835, H 05B 6/04, H 05K 2201/10022, H 05K 1/0201
331/71	H 03B 5/10, A 61N 1/40, H 02M 5/005, H 03B 9/10, H 03K 3/2828
331/72	H 03B 5/10, H 03B 5/34, H 03B 5/04, H 03B 5/22, H 03B 19/10
331/73	H 03B 5/34, H 03B 19/10, H 03B 5/10, H 03B 5/30, H 03B 5/36
331/74	H 03L 7/18, H 03K 3/0307, H 03K 3/0315, H 03L 7/099, H 03B 5/32
331/75	H 03B 5/34, H 04L 27/04, H 04B 1/04, H 03B 5/10, H 03B 5/364
331/76	H 03B 19/10, H 03B 19/00, H 03B 5/362, H 03B 19/14, H 03B 1/00
331/77	H 03B 5/10, H 03B 19/10, H 03B 1/04, H 03B 5/34, H 03B 9/10
331/78	H 03B 29/00, H 03K 3/84, G 06F 7/588, H 01J 17/005, H 04B 2215/067
331/79	H 01J 25/00, H 03B 9/12, H 03B 13/00, H 01J 25/02, H 01J 25/22
331/80	H 03B 13/00, H 01J 25/78, H 01J 31/04, H 01J 21/14, H 01J 25/02
331/81	H 01J 25/00, H 01J 25/02, H 01J 25/06, H 01J 25/10, H 01J 25/22
331/82	H 01J 25/38, H 01J 25/46, H 01J 23/24, H 01J 25/40, H 01J 25/42
331/83	H 01J 25/12, H 01J 23/20, H 01J 25/005, H 01J

	25/02, H 01J 25/11
331/84	H 01J 25/24, H 01J 25/06, H 01J 25/22, H 03L 7/04, H 03B 23/00
331/86	H 01J 25/52, H 03B 9/10, H 01J 25/58, H 01J 25/68, H 01J 21/18
331/87	H 03K 3/78, H 03K 3/55, G 01S 7/282, H 03C 1/30, H 03K 3/45
331/88	H 03B 9/10, H 01J 25/587, H 03B 5/1835, H 01J 23/207, H 01J 23/48
331/89	H 01J 25/76, H 01J 25/50, H 03B 9/10, H 01J 23/05, H 01J 25/72
331/90	H 01J 23/20, H 03B 9/10, H 03C 3/32, H 01J 23/213, H 01J 25/54
331/91	H 03B 9/10, H 01J 23/54, H 01J 25/587, H 03C 5/04, H 01J 21/18
331/92	H 01J 25/68, H 01J 25/76, C 01D 3/06, H 01J 19/28, H 01J 21/02
331/93	H 01J 25/68, H 03B 9/02, H 01J 25/72, H 03D 1/26, G 01R 13/00
331/95	H 03H 5/006, H 03J 3/22
331/96	H 03B 5/1852, H 03B 9/145, H 03B 2009/126, H 03B 5/1876, H 03B 5/1847
331/97	H 03B 5/1835, H 03F 3/54, H 01J 19/80, H 01J 21/065, H 01P 7/04
331/98	H 03B 5/1835, H 01P 7/04, H 03F 3/54, H 01J 19/80, H 01J 21/065
331/99	H 03B 5/1852, H 03B 5/1835, H 03B 5/1847, H 03B 5/1876, H 03B 2201/0208
331/100	H 03B 5/1835, H 01P 7/02, H 03L 2207/06, H 01F 17/00, H 01J 25/68
331/101	H 03B 5/1835, H 03B 9/145, H 03B 2009/126, H 03B 2201/015, H 03B 5/1805
331/102	H 03B 5/1835, H 01P 1/202, H 03B 5/10, H 03B 5/1805, H 03B 7/146

331/103	H 03B 9/01, H 03B 5/1835, H 03B 7/04, H 03F 1/10, H 04B 1/40
331/104	H 03F 3/54, H 01J 17/04, H 01J 19/80, H 01J 19/82, H 01J 25/00
331/105	H 03B 5/10, H 03B 5/34, H 03B 1/00, H 03B 1/04, H 03B 5/04
331/106	G 10H 1/043, H 01J 49/022, H 01J 49/421, H 03L 5/00, A 61N 1/306
331/107R	H 01L 29/00, H 03B 9/12, H 03B 7/08, H 03B 17/00, H 03B 15/00
331/108R	H 01L 29/00, H 03B 1/00, H 03B 5/24, H 03B 5/1847, H 03B 5/20
331/109	H 03L 5/00, H 03B 1/00, H 03B 5/36, H 03B 5/364, H 03B 2200/004
331/110	H 03B 5/26, H 03B 5/24, H 04M 1/50, H 03B 1/00, H 02M 7/5387
331/111	H 03K 3/0231, H 03K 3/354, H 03K 3/011, H 03K 3/03, H 03K 4/502
331/112	H 03K 3/30, H 02M 3/338, H 03K 4/54, H 02M 3/3381, H 02M 3/3385
331/113R	H 03K 3/2823, H 03K 3/2821, H 03K 7/06, H 03K 3/354, H 03K 3/011
331/113A	H 02M 7/53835, H 02M 7/53846, H 02M 7/53862, H 03K 3/30, H 02M 7/5383
331/113S	H 02M 7/516, H 02M 7/523, H 02M 7/5383, H 02M 7/53854, H 03K 3/352
331/114	H 02M 7/53835, H 03K 3/30, H 03B 1/00, H 02M 7/5383, Y 02B 70/1441
331/115	H 03B 7/06, H 03B 1/00, H 01L 29/00, H 01L 21/00, H 03B 5/362
331/116R	H 03B 5/36, H 03B 5/362, H 03B 5/368, H 03B 5/366, H 03L 1/023
331/116FE	H 03B 5/364, H 03K 3/3545, G 04F 5/06, H 03K 3/0307, H 03B 5/366
331/116M	H 03B 5/30, G 04C 3/069, G 04C 3/10, G 04C

	3/065, G 04C 3/108
331/117R	H 03B 1/00, H 03B 2201/0208, H 03B 2200/004, H 03B 5/1847, H 03L 7/099
331/117FE	H 03B 1/00, H 03B 2201/0208, H 03L 7/099, H 03K 3/354, H 03B 2200/004
331/117D	H 03B 5/1847, H 03B 2201/0208, H 03B 5/1852, H 03B 5/1876, H 03B 5/1805
331/108A	H 03K 3/0307, A 61N 1/025, A 61N 1/362, A 61N 1/37211, A 61N 1/37229
331/108B	H 03B 5/24, H 03B 27/00, H 03B 5/20, H 03B 2200/0092, H 03B 2201/02
331/108C	H 01L 2924/01006, H 03B 1/00, H 01L 2924/01013, H 01L 2924/19041, H 01L 2924/30107
331/108D	H 03K 3/0231, H 03B 5/32, H 03B 5/36, H 05K 1/181, H 03B 5/368
331/107DP	H 03B 2009/126, H 03B 9/145, H 03B 9/14, H 03B 9/146, H 03B 5/1864
331/107P	H 03B 9/143, H 03B 7/146, H 01P 1/005, H 01P 5/08, H 03B 5/1841
331/107SL	H 03B 5/1847, H 03B 5/1852, H 03B 9/147, H 03B 2201/0208, H 03B 9/141
331/107C	H 03B 9/145, H 01L 29/00, H 03B 9/12, H 03B 2009/126, H 03B 7/14
331/107A	H 03B 5/326, H 03B 5/32, H 03H 9/02834, H 03H 9/25, H 03B 5/366
331/107G	H 03B 9/12, H 01L 47/00, H 01L 47/026, H 01L 47/02, H 03B 9/14
331/107S	H 03B 15/00, G 11C 11/44, H 01L 39/223, H 03K 3/38, H 03F 19/00
331/107T	H 03B 7/08, H 03K 3/315, H 03B 7/14, H 01L 29/00, H 01L 29/882
331/126	G 10K 15/04, H 01J 3/025, H 01J 17/30, H 01J 17/32, H 01J 17/40
331/127	H 03B 11/08, A 61N 1/40, H 03B 11/02, H 05B

	6/04, H 01T 2/02
331/128	H 03K 3/55, H 03K 3/78, H 03B 7/10, H 03B 11/08, G 11C 19/085
331/129	H 03K 3/55, H 01J 13/20, H 01J 2893/0092, H 03B 7/10, H 03K 3/78
331/130	H 02M 7/445, H 03K 3/37, H 03K 4/86, G 05F 1/52, H 01H 51/34
331/131	H 03K 4/12, H 03K 4/86, G 06F 7/4912, G 06F 2207/49195, G 11C 11/56
331/132	H 03B 7/04, H 03B 5/34, H 03B 5/20, H 03B 7/06, H 03B 2200/0092
331/133	H 03B 7/04, H 01J 25/76, H 03B 5/34, H 03B 5/10, H 03B 9/01
331/134	H 03B 5/10, H 03B 5/34, H 03B 7/04, H 03K 4/18, G 01R 13/24
331/135	H 03B 5/20, H 03B 27/00, H 03B 2200/0078, H 03K 3/0231, H 03B 5/22
331/136	H 03B 5/22, H 03B 5/20, H 03L 5/00, G 05B 11/011, H 01C 7/04
331/137	H 03B 5/22, H 03C 3/00, G 08B 27/00, G 10H 5/02, H 02M 7/445
331/138	H 03B 5/10, H 03B 5/16, G 05D 23/2453, H 03B 5/20, H 03B 5/24
331/139	H 03B 5/34, H 03B 5/16, H 03B 5/38, H 03B 5/14, H 03K 3/78
331/140	H 03B 5/22, H 03B 5/14, H 03L 5/00, F 02M 19/01, F 16D 3/58
331/141	H 03B 5/26, H 03B 5/22, H 03B 5/20, H 03B 5/28, H 03L 5/00
331/142	H 03B 5/22, H 04M 1/50, H 03B 5/24, H 03B 5/26, H 03B 5/28
331/143	H 03K 3/0231, H 03K 3/011, H 03K 4/12, H 03K 4/502, H 03K 3/354
331/144	H 03K 3/08, H 03K 3/04, H 03K 4/14, H 03K 3/06, H 03B 5/34

331/145	H 03K 3/08, H 04N 5/123, H 03B 19/12, H 03K 3/06, H 04N 5/12
331/146	H 03K 4/16, H 03K 3/16, H 03K 4/34, H 03K 4/12, H 04N 5/123
331/147	H 03K 4/16, H 03K 4/34, H 03K 3/16, H 03K 4/43, E 04B 2001/8485
331/148	H 03K 3/16, H 03K 4/16, G 01S 13/22, H 02M 3/33, H 03B 19/12
331/149	H 03K 3/16, H 03K 4/16, H 04N 5/123, H 03B 19/12, H 03K 3/78
331/150	H 03K 4/12, H 03K 4/43, H 03K 4/26, H 03K 4/10, H 03K 4/14
331/151	H 03K 4/28, H 03K 4/16, H 03K 4/12, H 04N 5/126, H 03K 3/16
331/152	H 03K 4/12, H 03K 3/08, H 03K 4/22, H 03B 19/12, H 03K 4/066
331/153	H 03K 4/12, H 03K 3/0231, H 03K 4/24, H 03K 4/43, H 04N 5/123
331/154	H 03B 5/30, H 03B 5/04, H 03H 2009/02496, H 03H 3/0072, H 03L 1/022
331/155	H 03B 5/30, H 03B 17/00, H 03H 9/12, H 03H 9/24, G 01B 11/16
331/156	H 03B 5/30, H 03H 9/2405, H 03H 9/02448, H 03H 9/21, H 03H 9/2463
331/157	H 03B 5/40, H 03B 5/30, H 03H 9/22, B 06B 1/0253, B 06B 1/08
331/158	H 03B 5/36, H 03B 5/32, H 03B 5/34, H 03K 3/0307, H 03B 5/364
331/159	H 03B 5/34, D 06P 3/305, G 01R 27/32, H 02M 7/066, H 03B 19/10
331/160	H 03B 5/34, H 03B 5/364, H 03B 5/06, H 03L 3/00, H 03L 5/00
331/161	H 03B 5/34, H 03B 5/36, G 01S 1/02, G 01S 13/84, H 03B 19/10
331/162	H 03B 5/32, H 03B 5/34, H 03B 2200/0018, H 03L

	1/00, H 03L 1/028
331/163	H 03B 5/34, H 03B 5/323, H 03B 5/36, H 03H 9/545, H 03H 9/56
331/164	H 03B 5/34, H 03B 5/36, H 03C 1/00, H 03D 7/10, H 03H 9/0528
331/165	A 61N 1/40, H 03B 19/03, H 03L 7/099, H 01L 49/003, H 03B 11/00
331/166	H 03K 3/78, H 03B 19/10, H 03B 5/10, H 05B 6/04, H 03K 3/80
331/167	H 03B 1/00, H 03B 5/10, H 03L 7/099, H 03B 2201/0208, H 03J 2200/10
331/168	H 03B 5/10, H 03L 5/00, G 10H 5/02, H 02P 25/325, H 03B 5/16
331/169	H 03B 5/10, H 05B 6/04, H 03L 5/00, A 61N 1/40, G 01F 23/30
331/170	H 03B 5/10, H 03J 5/242, H 03B 5/1835, H 03J 3/00, H 05B 6/04
331/171	H 03B 5/10, H 03J 5/242, G 10H 5/02, H 03D 1/16, H 03D 7/08
331/172	H 03L 7/24, H 03K 3/0315, H 03K 3/0322, H 03K 3/354, H 03L 7/0805
331/173	H 04L 27/04, H 03K 3/78, H 03L 3/00, H 03L 7/24, H 03B 5/06
331/174	H 03K 3/78, H 03B 19/10, H 03K 3/08, G 01S 1/02, G 08C 19/22
331/175	H 03B 5/10, H 03L 1/00, H 03L 7/18, G 06F 1/08, H 03B 1/00
331/176	H 03L 1/026, H 03B 5/04, H 03L 1/028, H 03L 1/022, H 03L 1/023
331/177R	H 03L 7/099, H 03L 7/0995, H 03B 5/10, H 03J 7/04, H 03L 7/087
331/178	H 03B 23/00, H 03B 2200/0092, G 01S 1/02, G 10H 1/043, H 03C 3/08
331/179	H 03L 7/099, H 03J 2200/10, H 03L 7/10, H 03B 1/00, H 03L 2207/06

331/180	H 03J 7/042, H 03B 5/10, H 03B 23/00, H 03C 3/14, H 03J 7/045
331/181	H 03B 2201/0216, H 03J 3/20, H 03B 2200/0048, H 03B 2201/0208, H 03B 2201/025
331/177V	H 03B 1/00, H 03L 7/099, H 03B 2201/0208, H 03J 3/185, H 03J 2200/10
331/182	H 03L 5/00, H 03B 5/04, H 03L 7/099, H 04B 1/163, G 04F 10/04
331/183	H 03L 5/00, H 05B 6/04, H 05B 6/50, H 03L 7/099, H 03B 5/06
331/184	H 01J 21/02, H 01J 21/16, H 01J 43/02, H 03B 5/02, H 03B 5/10
331/185	H 03L 7/099, H 03B 1/00, H 03K 3/0315, H 03L 7/0995, H 03L 7/18
331/186	H 03L 1/022, H 03L 7/0995, H 03L 7/18, H 03B 5/06, H 03B 2200/0066
331/187	B 82Y 10/00, B 82Y 15/00, H 02N 11/006, H 03B 5/32, H 03B 11/00
331/DIG2	H 03L 7/095, H 03L 7/10, H 03L 7/107, H 03L 7/0891, H 03L 7/087
331/DIG3	H 03K 3/03, H 03K 3/0315, H 03K 3/0307, H 03K 3/354, H 03K 3/0231

Most statistically relevant CPC Subclasses

H 01S, H 03L, H 04N, H 03B, H 03J, H 03H, H 01L, H 03K, H 02M, H 05B, H 05K, H 01J, A 61N, G 04C, B 82Y
