

PHOTOMETRIC RESEARCHES IN THE SELECTED KAPTEIN AREAS

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ABSTRACT. B and V magnitudes of 4437 stars from Kapteyn Areas No 64, 65, 86, 87, 88, 98 are obtained. The catalogue and the star maps are given.

Key words: Stars: catalogue. B-, V-magnitudes, Kapteyn Areas: individual: 64, 65, 86, 87, 88, 98

The classical method of colour indices of stars is applied to study of distribution of interstellar absorbing substance in a Galaxy. This method enables to determine simply and reliably the size of complete interstellar absorption on all distance up to a star using the photometry data in two photometric systems (in our case it is systems B and V). Initial materials for researches on this method are the catalogues of star magnitudes and parameters of colour of stars.

In 1906 J. Kapteyn has offered the plan in regular intervals allocated on the sky of the Selected Areas for study of a structure of a Galaxy. This plan provided study of all accessible physical characteristics of stars in 252 small areas, from which 235 are in regular intervals allocated on all sky, and 46 - in addition in a strip of the Milky Way.

At Odessa Astronomical Observatory since 1967 in co-operation with Abastumany Astrophysical Observatory (AAO) the work on study of distribution of interstellar absorbing substance in a direction selected Kapteyn Areas is carrying out. For this purpose the catalogues B and V magnitudes of stars for researched Kapteyn Areas are created. The researched Areas KA-64, KA-65, KA-86, KA-87, KA-88, KA-98 are interesting to that are located near to an equatorial plane of a Galaxy, where basic weight of absorbing substance contains.

Equipment, observant material

The photographic material for researched Kapteyn Areas was obtained by M.S. Kazanazmas, I.A. Zavershneva and L.Ph. Tomak on unaberrational Schmidt camera of AAO in 1981 - 1988.

Optical parameters of unaberrational Schmidt camera are the following: the diameter of a spherical mirror 444 mm, diameter of a correctional lens 360 mm, focal length of a spherical mirror 625 mm, hence, scale on a photoplate is equal 5,5 arches on millimetre, and light-gasp of the tool is 1:1,74.

It is possible to consider the Schmidt chamber, despite of presence in it of a lens, almost free from chromatic aberration. It also hasn't spherical aberration, astigmatism and coma [1]. The detailed description of a telescope is given in works [1] and [2].

For reception of a photometric material in system B, V of Johnson-Morgan were used filter Schott GG11 in a combination with a film A - 600 (V-magnitudes) and filter Schott GG13 in a combination with a film A - 500 (B-magnitudes).

Technique of reception of stellar magnitudes

The photometric processing of the received photographic material was carried out on micro-photometer "MФ-2" with specially built - in round diaphragm. For all stars the measurements were carried out on three films.

The mistake of a field of the Schmidt camera was not taken into account, since on distance 2'20" from the centre of a photograph, where was carried out photometry of stars, it does not exceed 0.01 stellar magnitude.

For areas KA-86 and KA-87 as standard the stars of a cluster NGC 6633, for a area KA-88 - star of a cluster NGC 6940, for a area KA-98 - star of a cluster NGC 2264 and for KA-64, 65 a clusters NGC 6940, 6977 were used. The data for them were taken from the catalogue [5].

The standard technique was applied to reception of stellar magnitudes.

As numerous researches have shown, at use of films A - 500 and A - 600 in a combination with filters Schott GG13 and GG11 on the Schmidt camera of AAO the standard photometric system BV is realized practically [3-6].

Table 1. The basic characteristics of areas

| The name of a Areas | α | δ | b | l | N | V_{max} | V_{min} |
|---------------------|---------------------------------|---------------------------------|--------------------|------------------|-----|--------------------|---------------------|
| KA-64 | 20 ^h 02 ^m | 30 ^o 16 ['] | 68 ^o | 0 ^o | 478 | 6 ^m .63 | 12 ^m .34 |
| KA-65 | 21 ^h 03 ^m | 30 ^o 33 ['] | 71 ^o | -12 ^o | 653 | 7 ^m .19 | 13 ^m .45 |
| KA-86 | 18 ^h 15 ^m | 15 ^o 00 ['] | 43 ^o | 14 ^o | 731 | 7 ^m .48 | 13 ^m .37 |
| KA-87 | 19 ^h 15 ^m | 15 ^o 11 ['] | 49 ^o | 1 ^o | 757 | 6 ^m .36 | 13 ^m .74 |
| KA-88 | 20 ^h 14 ^m | 15 ^o 26 ['] | 56 ^o .5 | -11 ^o | 970 | 7 ^m .25 | 13 ^m .75 |
| KA-98 | 6 ^h 52 ^m | -0 ^o 15 ['] | 213 ^o | 1 ^o | 848 | 7 ^m .68 | 13 ^m .99 |

Results of photometry of stars in researched Kapteyn Areas

As a result of computer data processing photometry of stars for researched Kapteyn Areas the catalogues of star magnitudes V and parameters of colour $B-V$ were created. The random errors of the definition B - and V - magnitudes are less than $\pm 0^m.04$.

The information on researched Kapteyn Areas and about the catalogues, received for them, is given in the Table 1. The names of Kapteyn Areas are specified in the first column, in second - the equatorial coordinates of their centres (epoch 2000.0) are given, in the third column the galactic coordinates of the centres of platforms are given, the amount of stars included in the catalogue is specified in the fourth column, in the seventh and eighth columns the meanings of the maximal and minimal magnitudes of stars of the catalogues are given.

On Fig. 1 the scheme of division of the image of each areas into the fragments is given, and on Fig. 2 - Fig. 55 the images of cards of researched areas are given. The coordinate grid on cards corresponds to epoch 2000.0, designation of axes is standard.

The catalogues are given in the Tables 2 - 7. In first column the serial number of a star appropriate to its number on a card is given. In second column the star magnitude V , in third - parameter of colour $B-V$ is given.

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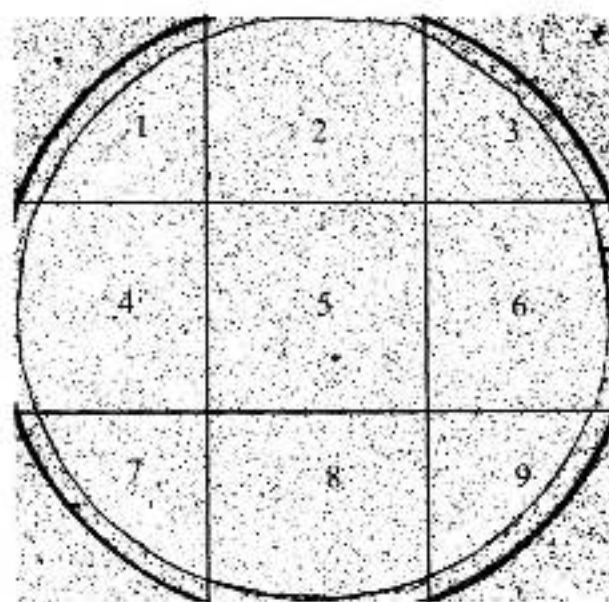


Fig. 1: The scheme of division of the image of each areas into the fragments

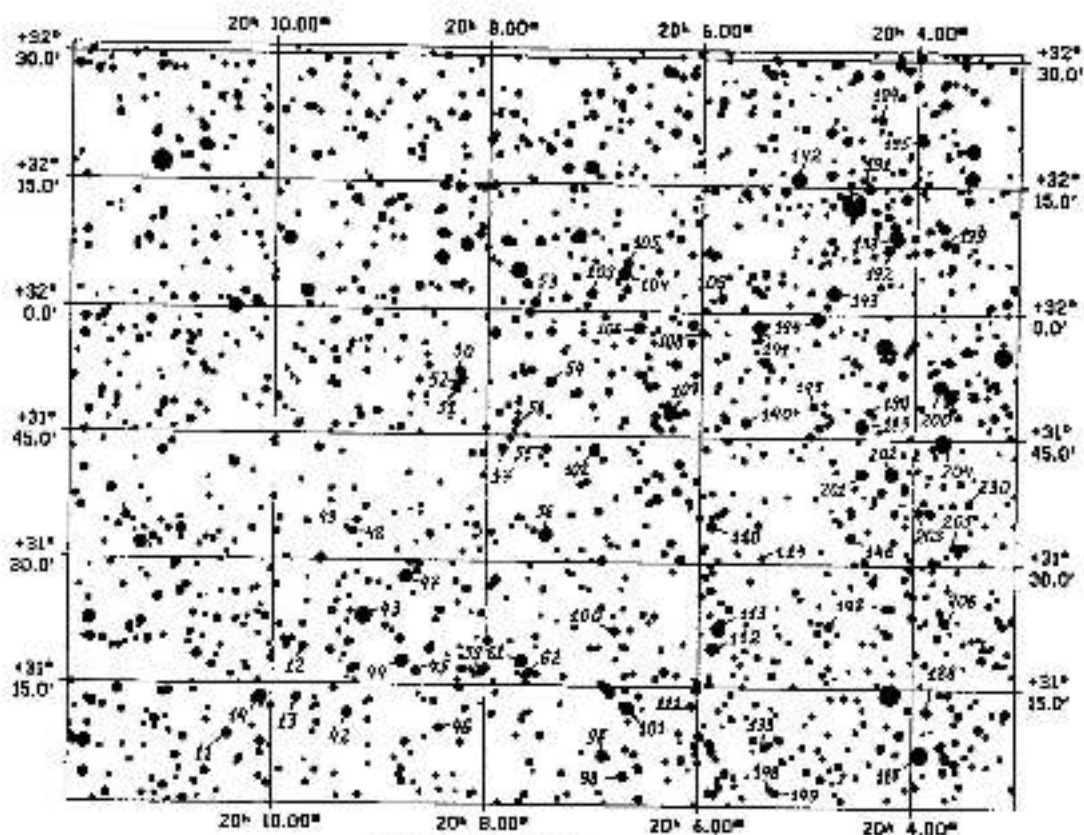


Fig. 2. KA-64, fragment 1

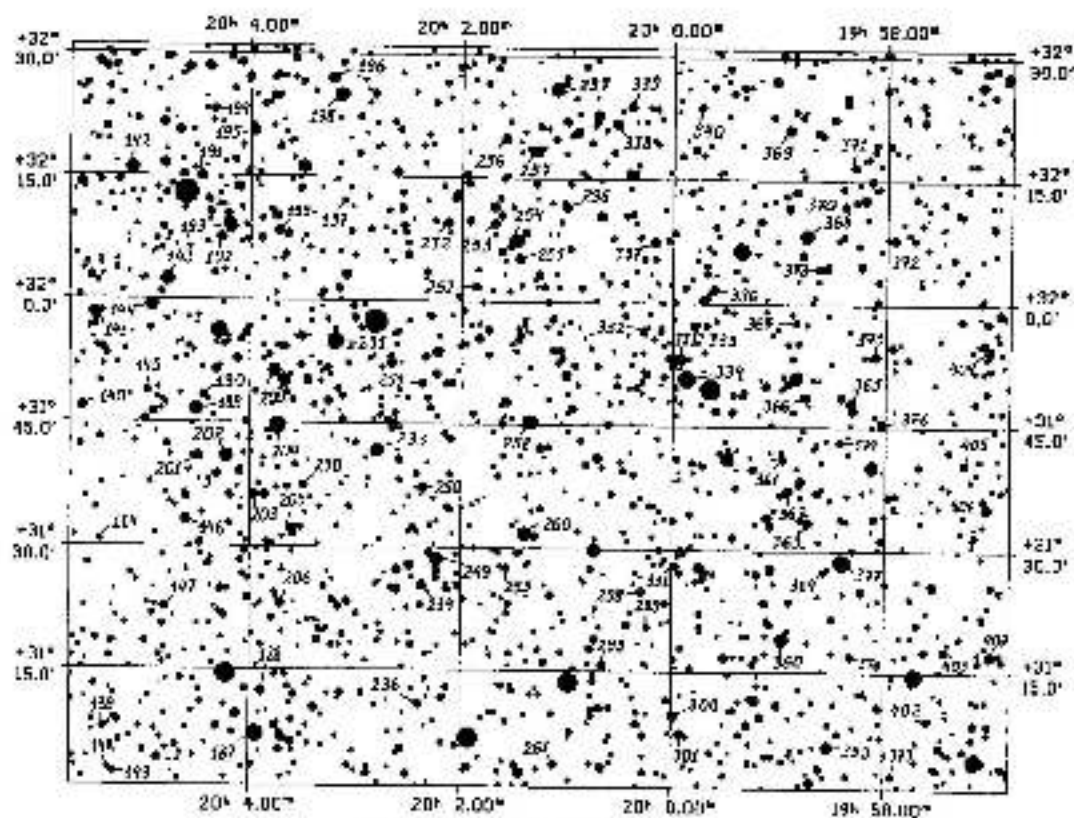


Fig. 3. KA-64, fragment 2

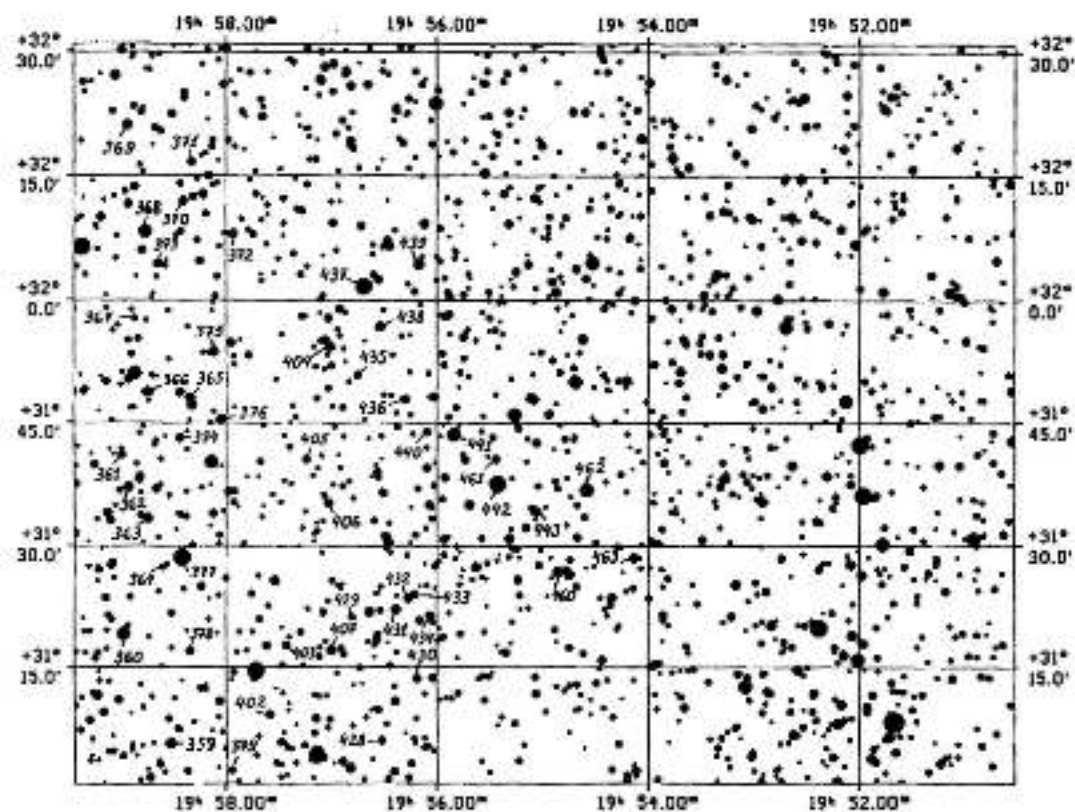


Fig. 4: KA-64, fragment 3

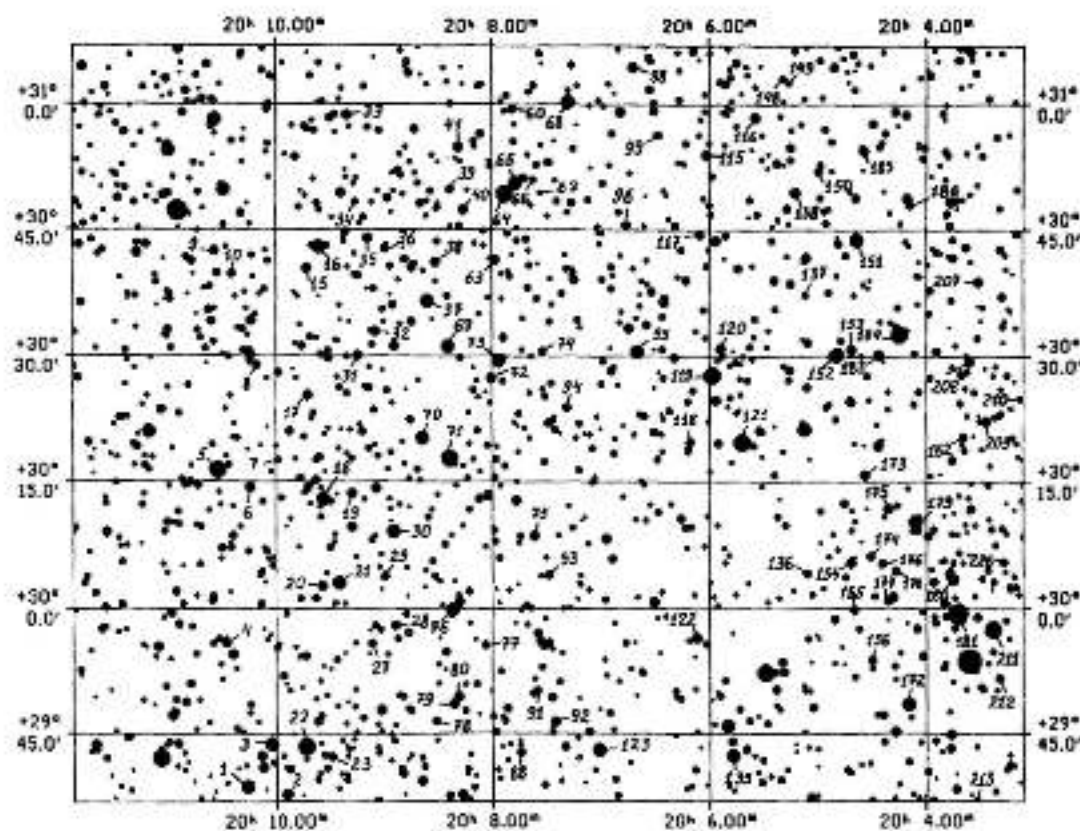


Fig. 5: KA-64, fragment 4

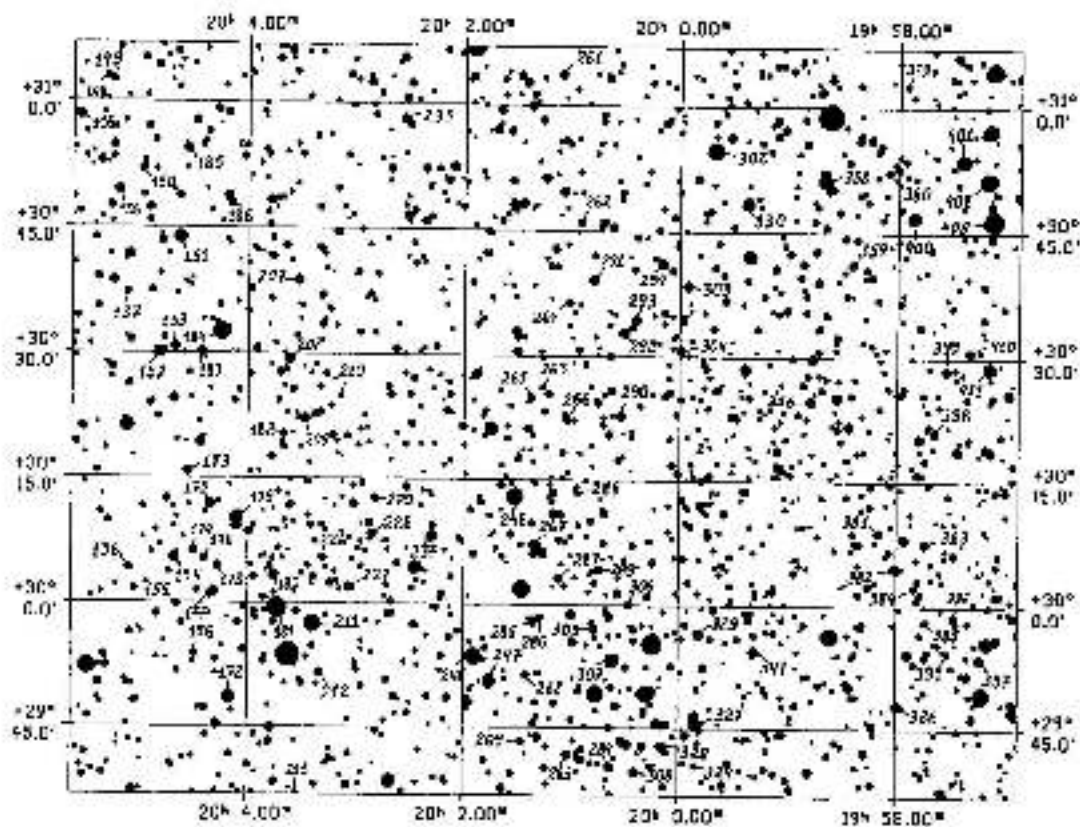


Fig. 6: KA-64, fragment 5

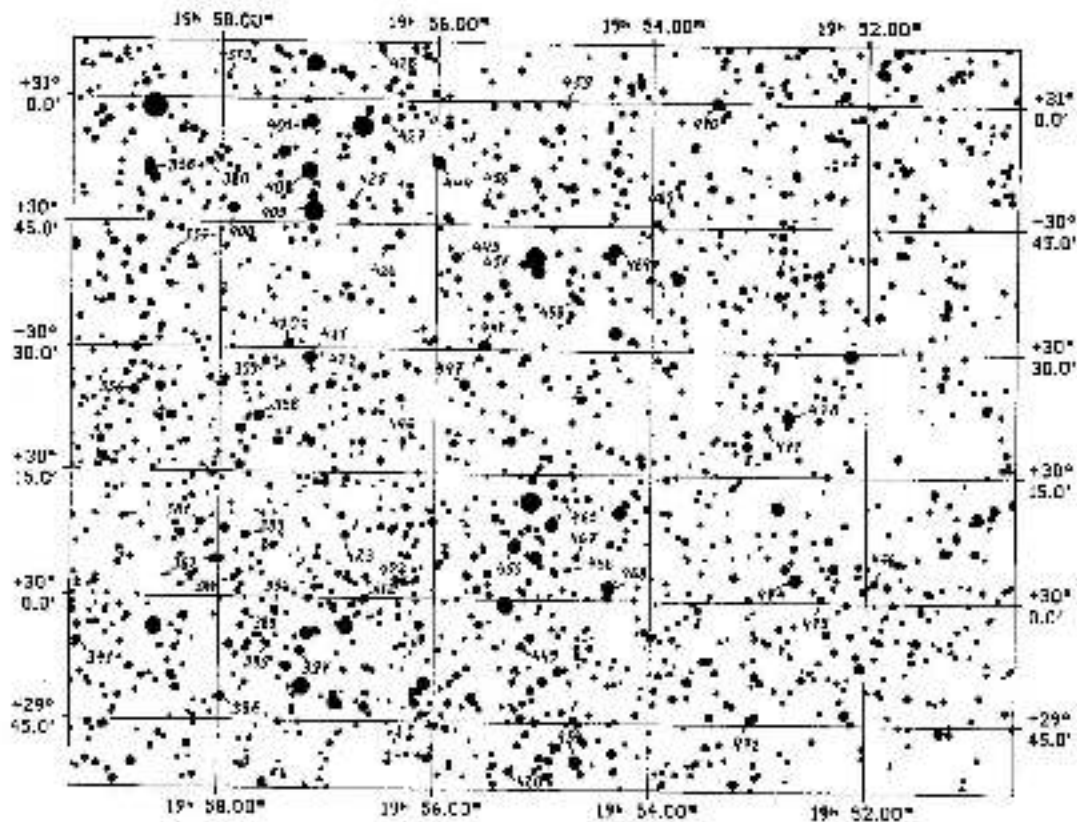


Fig. 7: KA-64, fragment 6

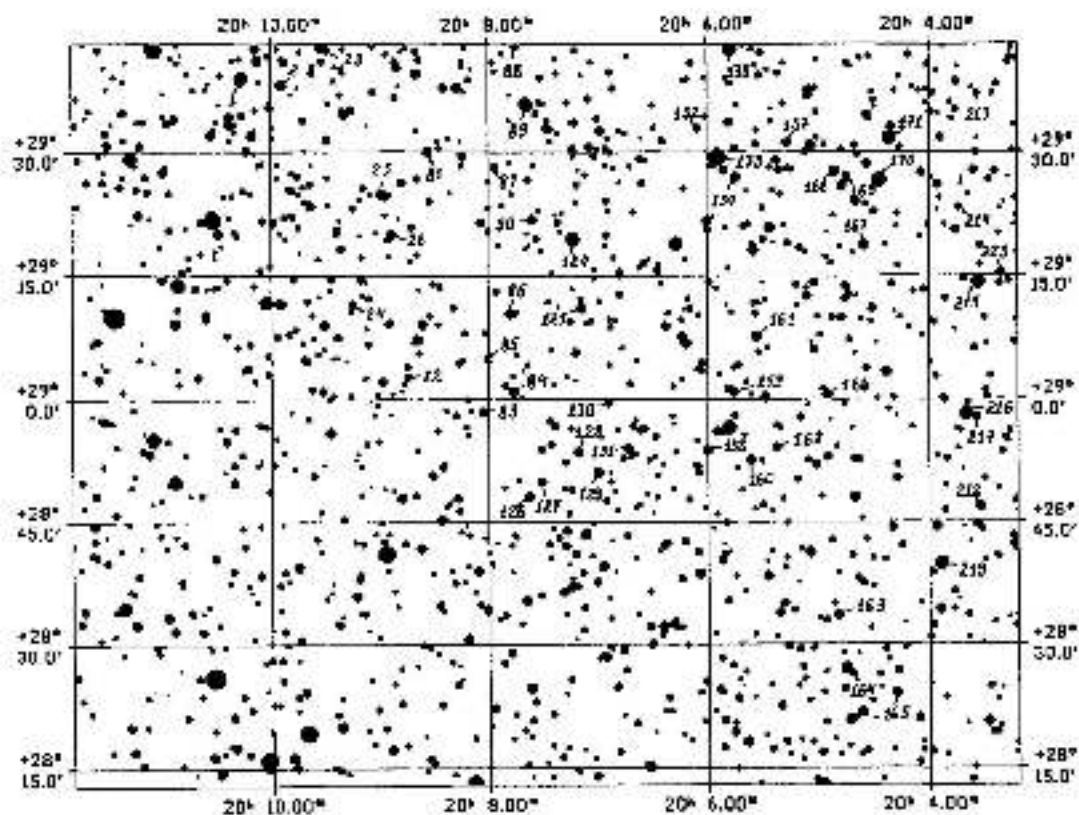


Fig. 8: KA-64, fragment 7

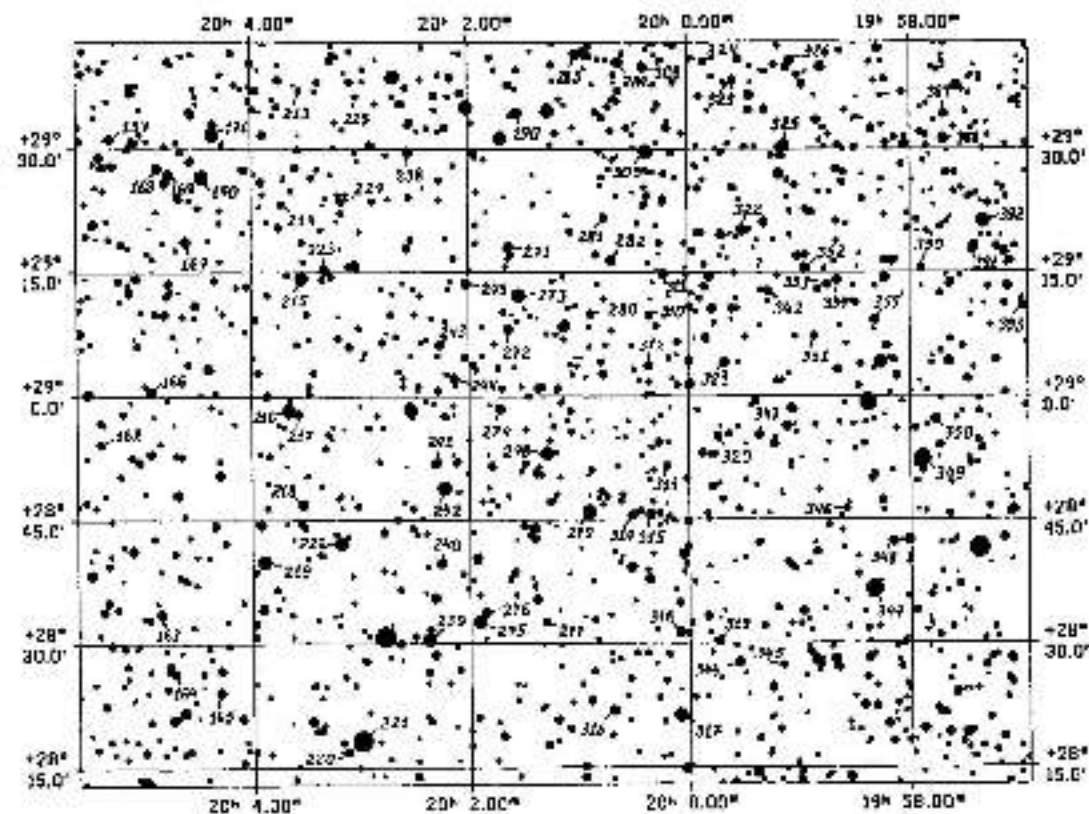


Fig. 9: KA-64, fragment 8

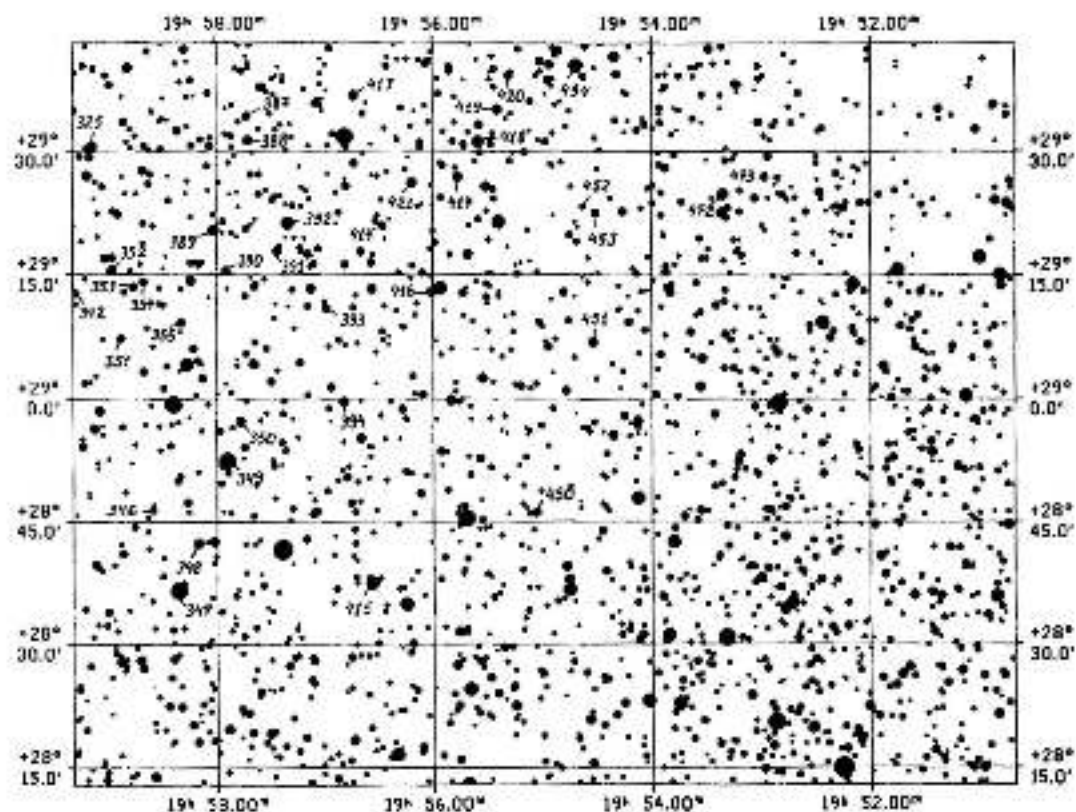


Fig. 10: KA-64, fragment 9

Table 2. Kapteyn Area KA-64: magnitudes and color indices of stars

| No | V | B-V | No | V | B-V | No | V | B-V |
|----|-------|-------|-----|-------|-------|-----|-------|-------|
| 1 | 8.11 | 0.94 | 161 | 10.21 | 0.29 | 321 | 10.34 | -0.25 |
| 2 | 11.05 | -0.05 | 162 | 10.99 | 0.29 | 322 | 9.31 | 0.60 |
| 3 | 8.50 | 0.98 | 163 | 10.35 | -0.48 | 323 | 10.95 | -0.28 |
| 4 | 10.20 | 0.23 | 164 | 11.55 | -0.24 | 324 | 10.07 | 0.99 |
| 5 | 7.86 | -0.27 | 165 | 10.18 | -0.28 | 325 | 10.20 | -0.26 |
| 6 | 10.35 | -0.58 | 166 | 10.30 | 0.97 | 326 | 10.04 | -0.01 |
| 7 | 11.23 | -0.20 | 167 | 9.83 | 0.15 | 327 | 8.86 | 0.34 |
| 8 | 11.24 | -0.42 | 168 | 9.45 | 0.28 | 328 | 10.84 | 0.06 |
| 9 | 9.38 | -0.01 | 169 | 11.40 | -0.05 | 329 | 9.17 | 1.23 |
| 10 | 11.13 | -0.04 | 170 | 8.88 | -0.29 | 330 | 9.35 | 0.01 |
| 11 | 9.83 | 0.12 | 171 | 9.25 | 1.14 | 331 | 11.06 | -0.09 |
| 12 | 11.42 | -0.32 | 172 | 9.75 | 1.67 | 332 | 10.83 | 0.03 |
| 13 | 10.66 | -0.03 | 173 | 9.25 | -0.22 | 333 | 9.88 | -0.60 |
| 14 | 8.34 | -1.03 | 174 | 10.89 | 0.07 | 334 | 8.04 | 1.83 |
| 15 | 10.25 | -0.13 | 175 | 10.51 | 0.62 | 335 | 11.52 | -0.49 |
| 16 | 8.56 | 0.79 | 176 | 10.70 | -0.29 | 336 | 10.54 | -0.24 |
| 17 | 9.86 | 1.32 | 177 | 10.93 | -0.33 | 337 | 10.35 | -0.38 |
| 18 | 8.87 | 0.60 | 178 | 11.17 | -0.18 | 338 | 9.62 | 1.20 |
| 19 | 9.56 | -0.12 | 179 | 9.35 | 0.93 | 339 | 10.19 | -0.09 |
| 20 | 9.82 | -0.02 | 180 | 8.82 | 0.02 | 340 | 10.59 | 0.07 |
| 21 | 9.23 | 1.05 | 181 | 6.63 | 1.58 | 341 | 9.57 | 2.07 |
| 22 | 7.72 | 1.23 | 182 | 10.83 | 0.00 | 342 | 10.69 | -0.12 |
| 23 | 10.92 | -0.47 | 183 | 9.85 | 0.05 | 343 | 10.92 | 0.11 |
| 24 | 11.08 | -0.26 | 184 | 8.16 | 0.34 | 344 | 9.55 | 0.98 |

Table 2 (continued)

| No | V | B-V | No | V | B-V | No | V | B-V |
|----|-------|-------|-----|-------|-------|-----|-------|-------|
| 25 | 10.20 | 0.43 | 185 | 9.99 | 1.04 | 345 | 11.60 | -0.42 |
| 26 | 10.41 | -0.14 | 186 | 10.81 | 0.04 | 346 | 11.50 | -0.14 |
| 27 | 10.62 | 0.15 | 187 | 7.77 | -0.31 | 347 | 7.41 | -0.34 |
| 28 | 11.49 | 0.51 | 188 | 9.47 | 0.08 | 348 | 9.41 | 0.47 |
| 29 | 10.76 | 0.13 | 189 | 8.49 | 0.03 | 349 | 7.07 | -0.31 |
| 30 | 9.11 | 0.17 | 190 | 10.78 | 1.19 | 350 | 9.75 | 0.88 |
| 31 | 9.70 | -0.18 | 191 | 9.86 | -0.11 | 351 | 10.58 | -0.25 |
| 32 | 9.35 | -0.06 | 192 | 9.61 | 0.09 | 352 | 9.97 | 0.94 |
| 33 | 9.98 | -0.15 | 193 | 8.56 | 0.20 | 353 | 11.52 | -0.06 |
| 34 | 11.19 | 0.32 | 194 | 10.81 | -0.18 | 354 | 11.42 | -0.36 |
| 35 | 9.80 | 0.38 | 195 | 9.83 | -0.38 | 355 | 11.08 | -0.08 |
| 36 | 10.61 | 0.22 | 196 | 10.31 | 0.06 | 356 | 8.60 | 0.25 |
| 37 | 9.50 | 1.12 | 197 | 11.53 | -0.55 | 357 | 10.70 | 0.55 |
| 38 | 9.74 | -0.13 | 198 | 9.62 | 0.75 | 358 | 8.54 | 0.46 |
| 39 | 10.88 | 0.24 | 199 | 9.51 | 0.61 | 359 | 9.64 | 0.38 |
| 40 | 10.06 | 1.70 | 200 | 8.79 | 1.20 | 360 | 8.76 | 1.50 |
| 41 | 9.60 | 1.27 | 201 | 10.00 | 0.32 | 361 | 11.13 | -0.05 |
| 42 | 9.39 | 0.75 | 202 | 8.78 | 0.08 | 362 | 9.59 | 0.17 |
| 43 | 7.75 | 1.62 | 203 | 10.10 | 0.44 | 363 | 10.31 | -0.29 |
| 44 | 9.38 | -0.38 | 204 | 8.14 | -0.19 | 364 | 11.15 | -0.16 |
| 45 | 9.82 | 1.14 | 205 | 10.74 | -0.04 | 365 | 9.56 | 0.05 |
| 46 | 10.95 | 0.38 | 206 | 9.97 | 1.04 | 366 | 10.16 | 0.21 |
| 47 | 9.23 | 0.98 | 207 | 9.54 | 1.16 | 367 | 9.58 | -0.10 |
| 48 | 11.50 | 0.07 | 208 | 10.05 | 1.12 | 368 | 9.02 | 2.39 |
| 49 | 10.62 | 0.14 | 209 | 10.87 | 1.50 | 369 | 9.53 | -0.01 |
| 50 | 10.40 | -0.39 | 210 | 11.68 | 0.04 | 370 | 10.77 | -0.10 |
| 51 | 9.56 | 0.03 | 211 | 8.33 | 1.71 | 371 | 11.15 | 0.00 |
| 52 | 10.62 | 0.09 | 212 | 10.89 | 0.31 | 372 | 9.42 | -0.02 |
| 53 | 9.84 | -0.58 | 213 | 11.49 | 0.38 | 373 | 10.16 | 0.84 |
| 54 | 10.26 | -0.22 | 214 | 11.57 | -0.17 | 374 | 9.99 | 0.20 |
| 55 | 10.64 | -0.11 | 215 | 9.48 | 0.32 | 375 | 10.21 | -0.20 |
| 56 | 8.94 | 0.93 | 216 | 9.21 | 1.10 | 376 | 10.29 | 0.83 |
| 57 | 10.28 | 1.30 | 217 | 11.02 | -0.27 | 377 | 8.18 | 1.75 |
| 58 | 10.89 | -0.18 | 218 | 9.29 | 0.49 | 378 | 9.93 | 0.64 |
| 59 | 10.94 | 0.17 | 219 | 9.23 | -0.17 | 379 | 11.25 | 0.12 |
| 60 | 10.61 | 0.06 | 220 | 10.44 | -0.28 | 380 | 10.96 | 0.34 |
| 61 | 9.30 | -0.06 | 221 | 7.41 | -0.82 | 381 | 10.06 | -0.01 |
| 62 | 10.26 | -0.25 | 222 | 9.54 | 0.46 | 382 | 10.08 | 0.27 |
| 63 | 9.47 | -0.06 | 223 | 9.57 | 1.16 | 383 | 10.46 | 0.15 |
| 64 | 8.42 | 1.11 | 224 | 10.56 | 0.31 | 384 | 11.42 | 0.29 |
| 65 | 9.11 | -0.02 | 225 | 12.23 | 0.00 | 385 | 11.58 | 0.15 |
| 66 | 11.46 | 0.24 | 226 | 11.47 | 0.18 | 386 | 9.65 | 1.36 |
| 67 | 11.14 | 0.32 | 227 | 9.70 | -0.06 | 387 | 11.32 | -0.20 |
| 68 | 9.20 | 1.16 | 228 | 10.63 | -0.38 | 388 | 10.25 | 0.24 |
| 69 | 8.90 | 0.76 | 229 | 10.87 | -0.42 | 389 | 9.36 | 0.88 |
| 70 | 9.10 | -0.35 | 230 | 10.94 | 0.05 | 390 | 11.02 | -0.12 |
| 71 | 8.38 | 1.70 | 231 | 7.89 | 1.85 | 391 | 9.78 | 0.24 |
| 72 | 9.81 | -0.29 | 232 | 9.79 | -0.32 | 392 | 9.51 | -0.61 |
| 73 | 9.11 | 1.34 | 233 | 9.07 | 0.35 | 393 | 11.42 | -0.62 |
| 74 | 11.27 | 0.07 | 234 | 9.95 | -0.03 | 394 | 9.15 | 0.68 |
| 75 | 10.06 | 0.23 | 235 | 9.35 | 0.00 | 395 | 11.38 | -0.15 |
| 76 | 8.91 | 0.73 | 236 | 10.94 | 0.87 | 396 | 10.96 | -0.14 |
| 77 | 10.54 | -0.44 | 237 | 9.32 | -0.16 | 397 | 9.13 | 0.57 |
| 78 | 11.19 | 0.00 | 238 | 10.20 | 0.03 | 398 | 10.59 | 0.12 |
| 79 | 10.20 | -0.35 | 239 | 9.13 | 1.08 | 399 | 11.17 | 0.42 |

Table 2 (continued)

| No | V | B-V | No | V | B-V | No | V | B-V |
|-----|-------|-------|-----|-------|-------|-----|-------|-------|
| 80 | 9.75 | -0.03 | 240 | 10.18 | -0.48 | 400 | 10.14 | -0.10 |
| 81 | 10.10 | -0.19 | 241 | 9.88 | -0.24 | 401 | 9.25 | -0.22 |
| 82 | 11.23 | -0.72 | 242 | 8.38 | -0.06 | 402 | 10.85 | 0.28 |
| 83 | 10.76 | -0.14 | 243 | 10.84 | -0.16 | 403 | 10.08 | 0.23 |
| 84 | 10.08 | -0.35 | 244 | 10.37 | -0.20 | 404 | 8.81 | 0.64 |
| 85 | 11.78 | -0.43 | 245 | 9.88 | 0.02 | 405 | 10.71 | 1.42 |
| 86 | 10.19 | 0.78 | 246 | 8.02 | 1.10 | 406 | 10.02 | 0.14 |
| 87 | 10.41 | -0.44 | 247 | 8.96 | 1.17 | 407 | 9.53 | 0.09 |
| 88 | 10.99 | 0.33 | 248 | 8.01 | 0.72 | 408 | 7.41 | -0.77 |
| 89 | 9.18 | 0.99 | 249 | 9.24 | 0.00 | 409 | 6.83 | -0.72 |
| 90 | 10.42 | 1.22 | 250 | 9.30 | -0.23 | 410 | 11.41 | 0.27 |
| 91 | 10.69 | -0.15 | 251 | 11.54 | 0.11 | 411 | 9.10 | 1.99 |
| 92 | 10.23 | -0.36 | 252 | 11.02 | -0.31 | 412 | 9.76 | 0.46 |
| 93 | 11.06 | -0.18 | 253 | 10.79 | -0.08 | 413 | 10.06 | -0.17 |
| 94 | 11.53 | -0.28 | 254 | 9.10 | 1.60 | 414 | 11.01 | 0.19 |
| 95 | 8.98 | 0.05 | 255 | 9.46 | 0.42 | 415 | 7.73 | -0.56 |
| 96 | 10.65 | -0.26 | 256 | 9.79 | 0.84 | 416 | 10.64 | 0.41 |
| 97 | 10.24 | -0.37 | 257 | 10.07 | 0.14 | 417 | 10.12 | -0.10 |
| 98 | 10.16 | 0.16 | 258 | 9.15 | 0.01 | 418 | 7.73 | -0.67 |
| 99 | 10.02 | 2.00 | 259 | 10.65 | 0.12 | 419 | 10.29 | -0.09 |
| 100 | 9.82 | -0.39 | 260 | 8.94 | 0.12 | 420 | 10.64 | -0.19 |
| 101 | 8.46 | -0.01 | 261 | 11.55 | 0.04 | 421 | 10.40 | 0.22 |
| 102 | 10.30 | 0.16 | 262 | 11.24 | 0.30 | 422 | 10.81 | -0.31 |
| 103 | 9.90 | -0.38 | 263 | 12.15 | -0.30 | 423 | 10.39 | 0.08 |
| 104 | 8.87 | -0.39 | 264 | 10.84 | -0.04 | 424 | 10.91 | 0.14 |
| 105 | 9.65 | 0.07 | 265 | 11.23 | 0.74 | 425 | 9.23 | 0.27 |
| 106 | 9.59 | -0.22 | 266 | 11.10 | 0.10 | 426 | 11.38 | -0.16 |
| 107 | 8.62 | -0.25 | 267 | 10.04 | -0.02 | 427 | 9.51 | 1.17 |
| 108 | 11.50 | 0.64 | 268 | 11.24 | -0.37 | 428 | 10.64 | 1.09 |
| 109 | 10.79 | -0.13 | 269 | 10.42 | -0.03 | 429 | 11.48 | 0.49 |
| 110 | 9.94 | -0.09 | 270 | 9.75 | 0.87 | 430 | 10.16 | -0.08 |
| 111 | 10.43 | 0.25 | 271 | 10.24 | 0.21 | 431 | 8.65 | 0.09 |
| 112 | 9.90 | 0.26 | 272 | 9.46 | 0.73 | 432 | 11.28 | -0.37 |
| 113 | 9.51 | 1.63 | 273 | 8.80 | 0.75 | 433 | 10.44 | -0.21 |
| 114 | 11.25 | -0.02 | 274 | 10.04 | -0.28 | 434 | 10.46 | -0.16 |
| 115 | 9.82 | -0.18 | 275 | 8.63 | -1.82 | 435 | 11.06 | -0.25 |
| 116 | 10.04 | -0.10 | 276 | 9.69 | -0.47 | 436 | 10.13 | 0.67 |
| 117 | 10.80 | -0.08 | 277 | 11.18 | -0.17 | 437 | 7.76 | 2.17 |
| 118 | 10.65 | 0.29 | 278 | 9.27 | 0.91 | 438 | 10.29 | -0.07 |
| 119 | 8.32 | 1.36 | 279 | 8.91 | 1.35 | 439 | 9.95 | 0.34 |
| 120 | 10.67 | -0.07 | 280 | 10.85 | -0.34 | 440 | 10.66 | 0.18 |
| 121 | 8.34 | 0.32 | 281 | 10.74 | 0.40 | 441 | 8.74 | 0.33 |
| 122 | 10.01 | 0.23 | 282 | 10.05 | -0.25 | 442 | 8.96 | 1.12 |
| 123 | 8.64 | 0.94 | 283 | 10.78 | -0.39 | 443 | 9.29 | 0.45 |
| 124 | 8.79 | 1.93 | 284 | 10.12 | -0.01 | 444 | 8.88 | 1.45 |
| 125 | 10.41 | -0.18 | 285 | 10.96 | -0.17 | 445 | 10.15 | 0.11 |
| 126 | 10.46 | -0.53 | 286 | 9.21 | 0.03 | 446 | 11.17 | -0.18 |
| 127 | 11.16 | -0.09 | 287 | 11.12 | -0.19 | 447 | 11.04 | 0.29 |
| 128 | 9.97 | 0.38 | 288 | 11.46 | 0.16 | 448 | 8.89 | 0.50 |
| 129 | 10.31 | -0.30 | 289 | 10.86 | 0.13 | 449 | 10.68 | 0.19 |
| 130 | 10.56 | -0.52 | 290 | 9.99 | 0.38 | 450 | 9.92 | 0.12 |
| 131 | 10.12 | 1.27 | 291 | 10.20 | 0.45 | 451 | 9.65 | 1.01 |
| 132 | 10.97 | -0.42 | 292 | 9.84 | -0.20 | 452 | 9.75 | 0.40 |
| 133 | 8.54 | 0.90 | 293 | 9.94 | -0.16 | 453 | 10.81 | 0.40 |
| 134 | 10.58 | 0.01 | 294 | 9.44 | 0.54 | 454 | 9.40 | 1.89 |

Table 2. (continued)

| No | V | B-V | No | V | B-V | No | V | B-V |
|-----|-------|-------|-----|-------|-------|-----|-------|-------|
| 135 | 9.04 | -0.25 | 295 | 11.46 | -0.15 | 454 | 9.05 | 2.07 |
| 136 | 10.40 | 0.27 | 296 | 10.84 | -0.05 | 456 | 11.38 | 0.15 |
| 137 | 12.34 | 0.05 | 297 | 9.46 | 0.77 | 457 | 9.94 | 1.72 |
| 138 | 10.11 | 0.94 | 298 | 11.05 | 0.23 | 458 | 11.41 | -0.14 |
| 139 | 11.45 | 0.43 | 299 | 10.12 | -0.36 | 459 | 11.56 | -0.26 |
| 140 | 9.89 | -0.24 | 300 | 9.37 | 0.56 | 460 | 10.61 | -0.60 |
| 141 | 8.55 | -0.30 | 301 | 9.63 | 1.27 | 461 | 10.37 | -0.39 |
| 142 | 9.30 | 1.33 | 302 | 7.37 | -0.61 | 462 | 9.37 | 0.87 |
| 143 | 8.51 | 0.65 | 303 | 10.10 | -0.05 | 463 | 9.71 | 0.46 |
| 144 | 9.31 | 0.93 | 304 | 10.78 | 0.27 | 464 | 8.51 | -0.54 |
| 145 | 10.57 | 0.49 | 305 | 10.18 | 1.45 | 465 | 11.55 | 0.05 |
| 146 | 10.42 | 0.12 | 306 | 11.20 | 0.31 | 466 | 11.59 | -0.10 |
| 147 | 11.41 | 0.44 | 307 | 8.11 | -0.46 | 467 | 10.37 | -0.03 |
| 148 | 11.21 | 0.20 | 308 | 10.76 | -0.37 | 468 | 7.92 | -0.67 |
| 149 | 10.36 | 0.41 | 309 | 8.89 | 1.16 | 469 | 11.23 | 0.06 |
| 150 | 11.37 | -0.12 | 310 | 10.55 | 0.31 | 470 | 9.23 | 0.58 |
| 151 | 8.59 | -0.22 | 311 | 10.29 | 0.52 | 471 | 10.98 | 0.14 |
| 152 | 7.87 | 1.67 | 312 | 10.92 | 0.03 | 472 | 10.19 | 0.34 |
| 153 | 10.31 | 0.79 | 313 | 11.17 | -0.30 | 473 | 10.34 | 0.35 |
| 154 | 8.46 | -0.03 | 314 | 10.14 | 1.28 | 474 | 9.71 | 2.05 |
| 155 | 10.51 | -0.26 | 315 | 10.15 | -0.31 | 475 | 11.29 | 0.64 |
| 156 | 16.74 | 0.06 | 316 | 9.50 | -0.43 | 476 | 10.48 | 0.35 |
| 157 | 11.29 | -0.32 | 317 | 9.05 | 0.94 | 477 | 9.72 | 0.61 |
| 158 | 10.38 | -0.22 | 318 | 9.18 | 0.72 | 478 | 8.95 | 1.92 |
| 159 | 10.52 | -0.03 | 319 | 8.72 | 0.86 | | | |
| 160 | 10.03 | -0.37 | 320 | 11.45 | -0.18 | | | |

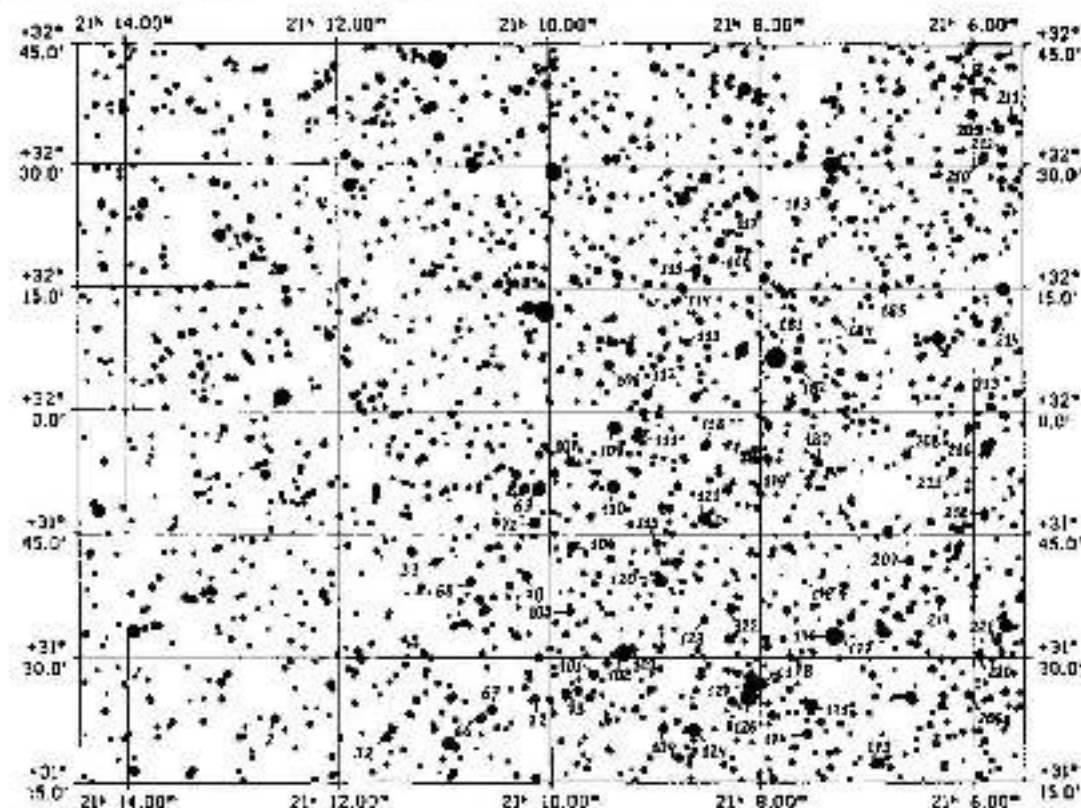


Fig. 11: KA-65, fragment 1

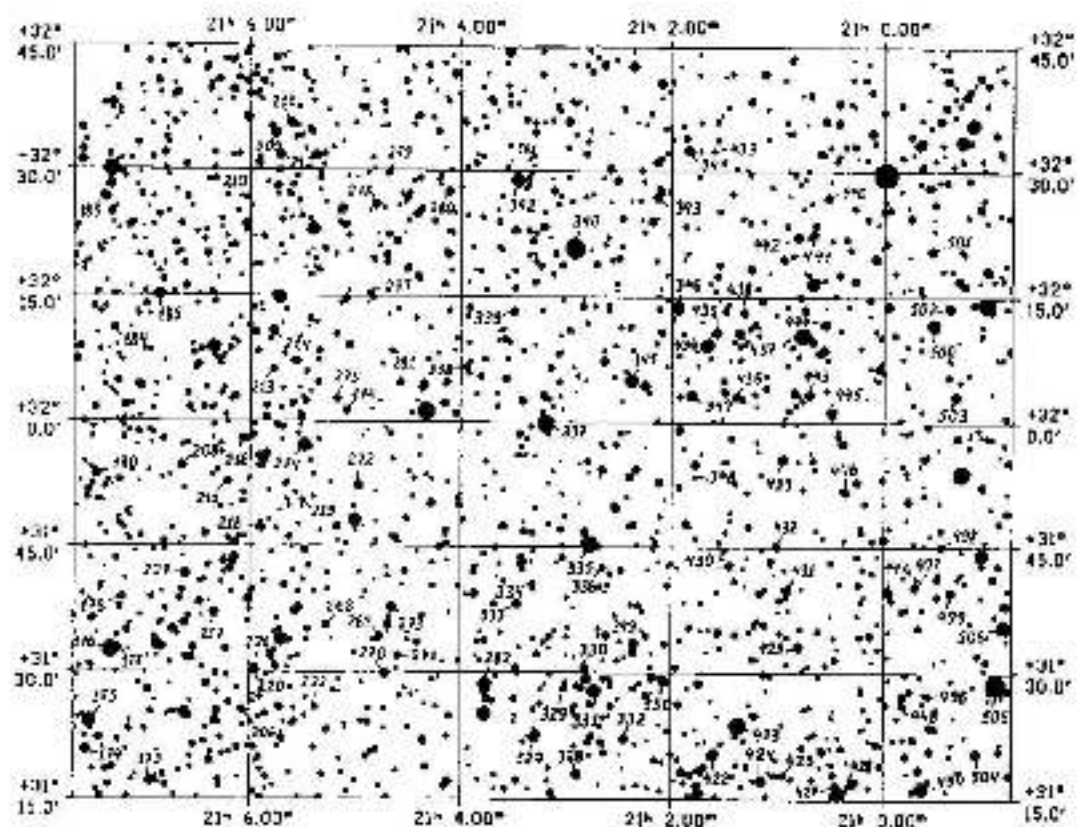


Fig. 12: KA-65, fragment 2

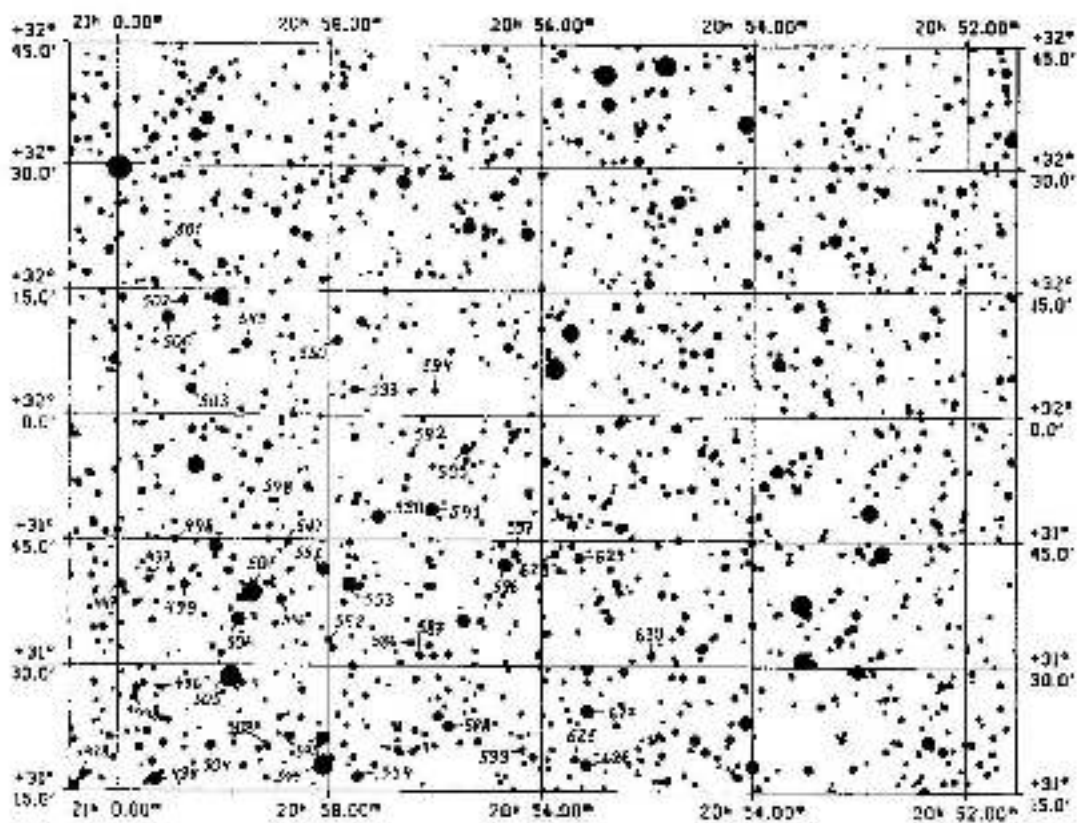


Fig. 13: KA-65, fragment 3

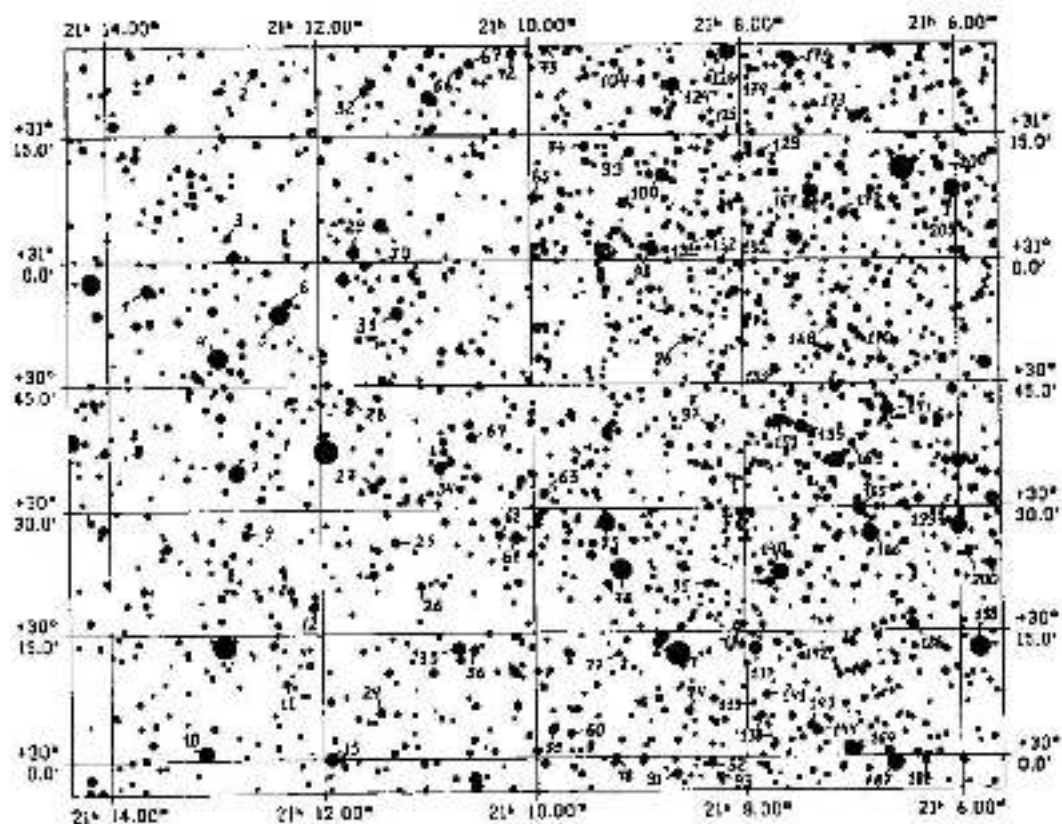


Fig. 14: KA-65, fragment 4

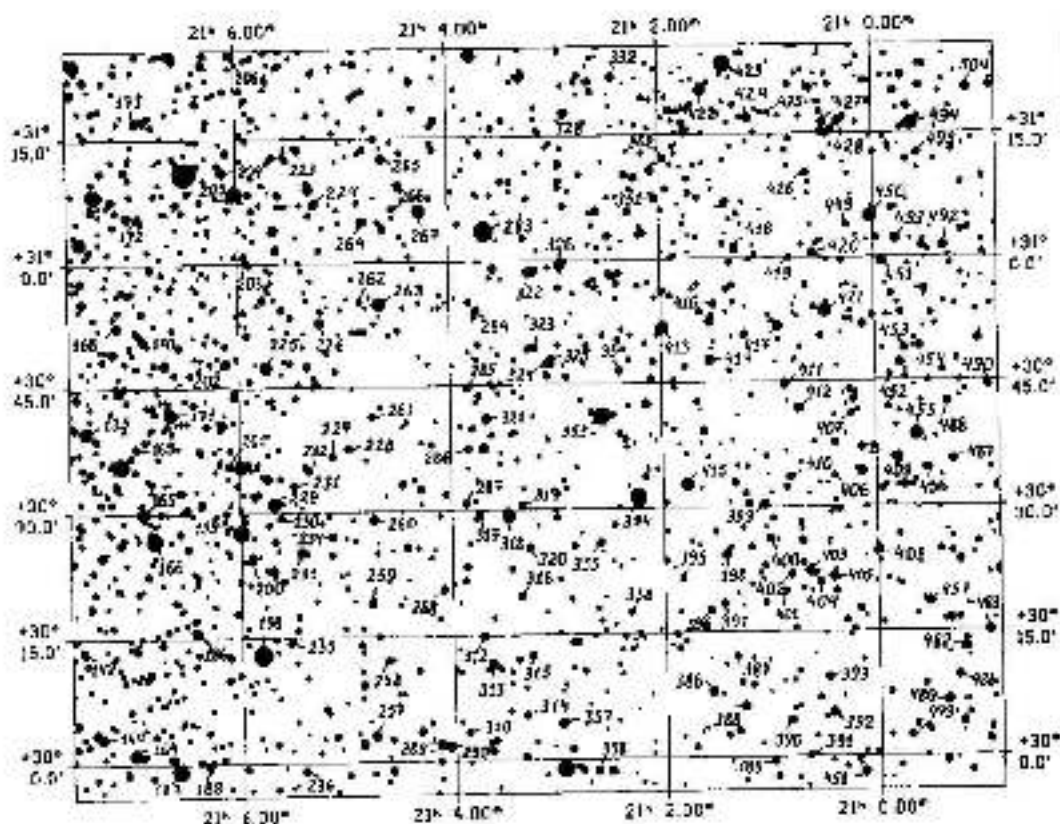


Fig. 15: KA-65, fragment 5

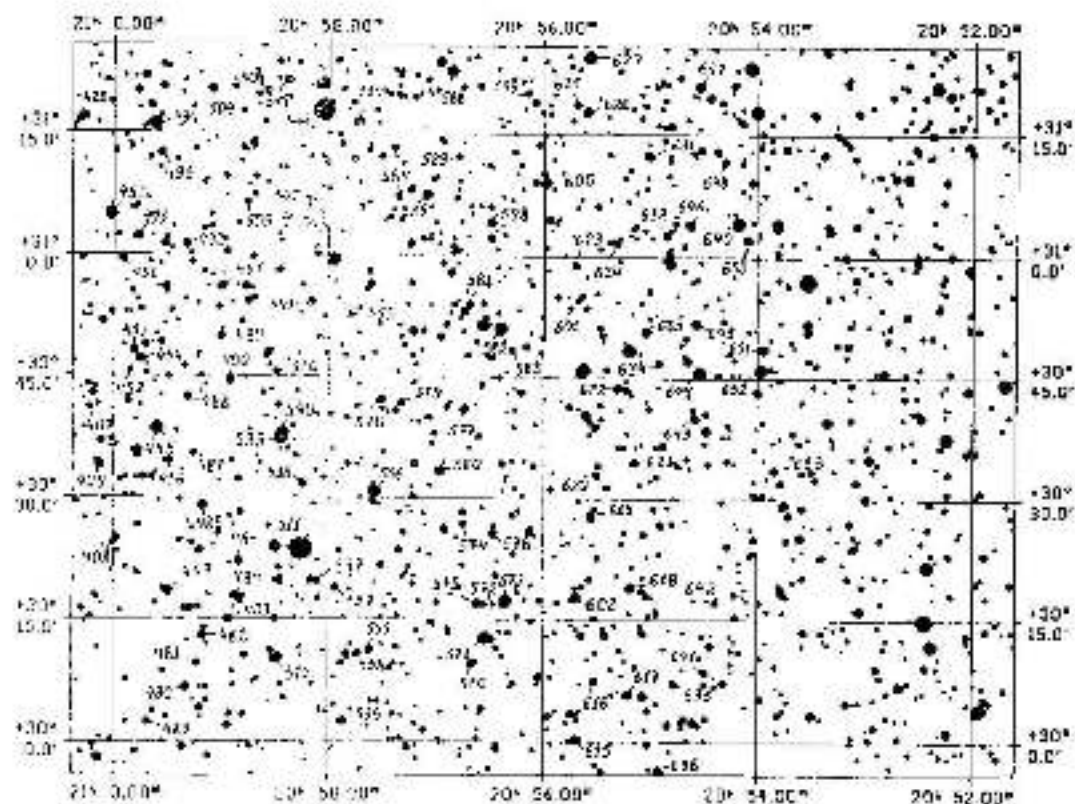


Fig. 16: KA-55, fragment 6

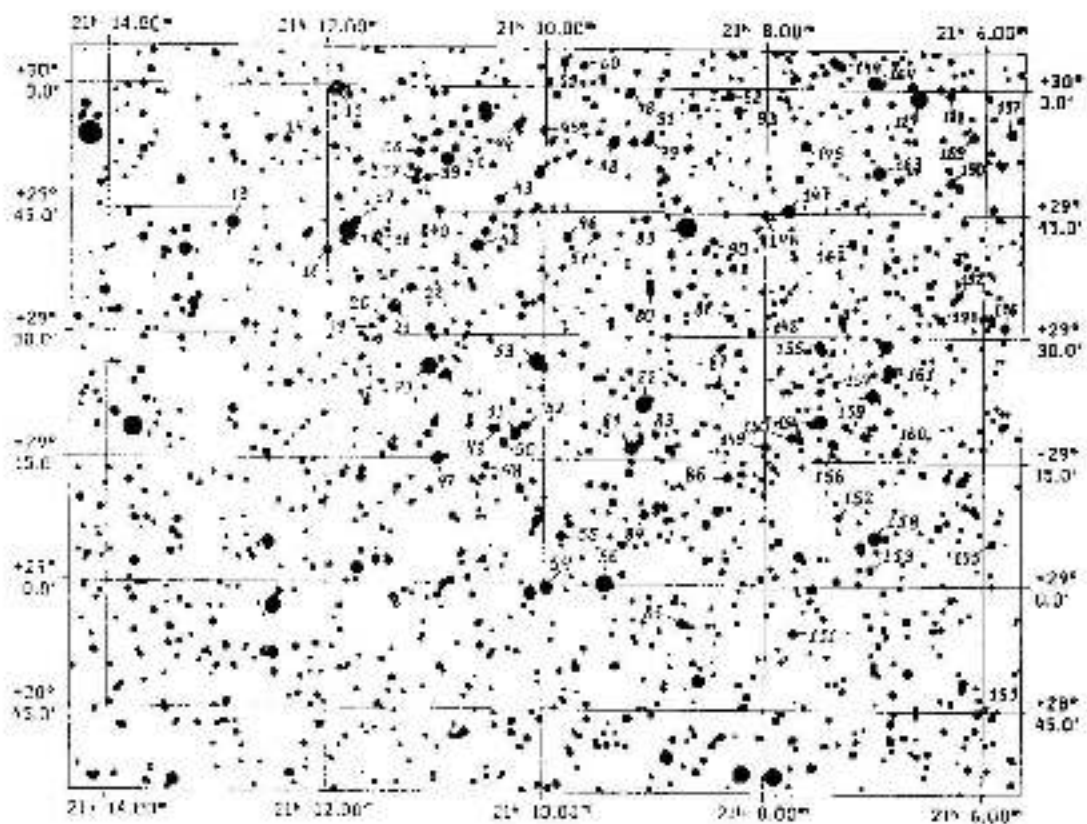


Fig. 17: KA-55, fragment 7

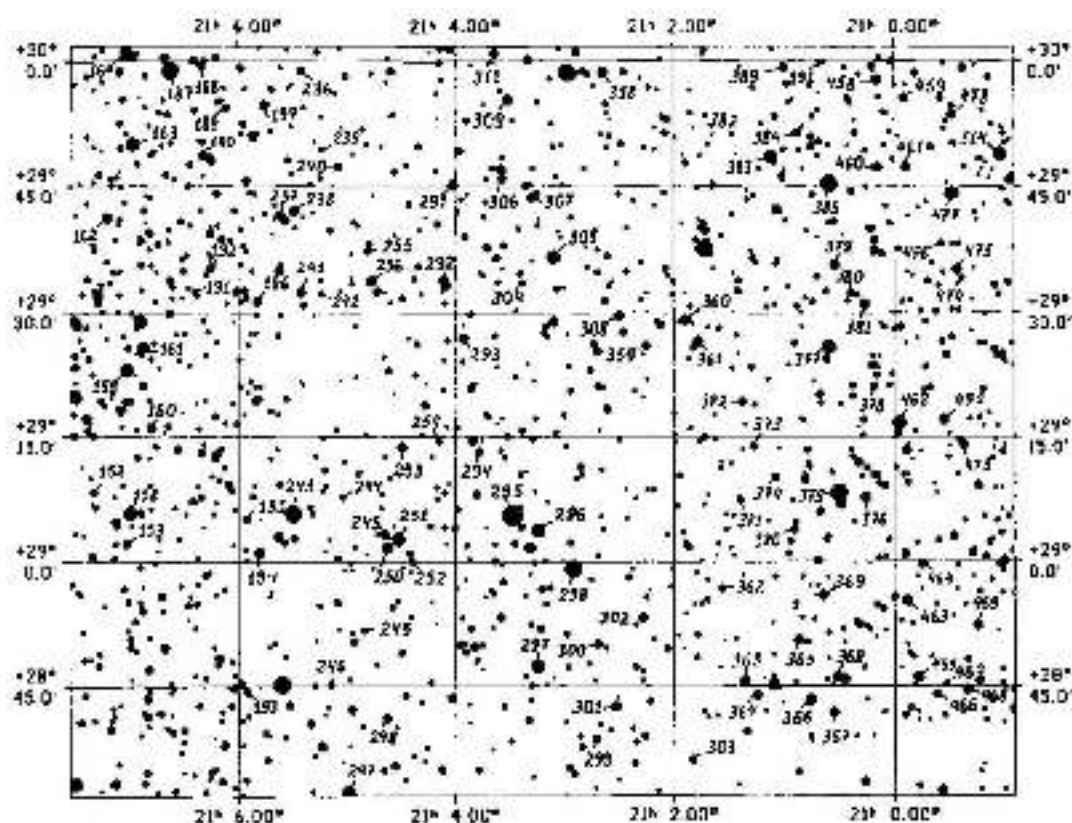


Fig 18: KA-65. fragment II

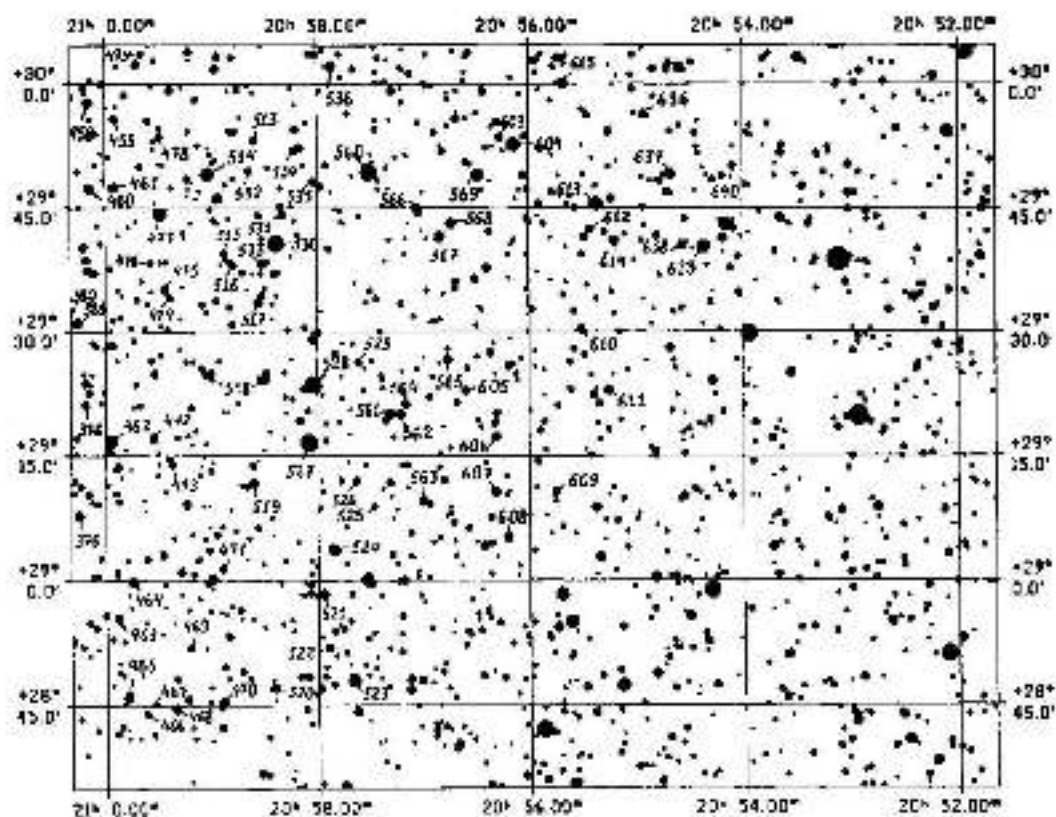


Fig 19: KA-65. fragment II

Table 3. Kapteyn area KA-65: magnitudes and color indices of stars

| No | V | B-V | No | V | B-V | No | V | B-V |
|----|-------|-------|-----|-------|-------|-----|-------|-------|
| 1 | 9.08 | -0.12 | 219 | 11.12 | 0.00 | 438 | 10.87 | -0.43 |
| 2 | 9.63 | 0.13 | 220 | 11.68 | 0.17 | 439 | 12.85 | 0.53 |
| 3 | 11.31 | -0.47 | 221 | 11.49 | 0.25 | 440 | 11.09 | 0.18 |
| 4 | 7.46 | 0.58 | 222 | 11.76 | 0.15 | 441 | 11.81 | -0.49 |
| 5 | 8.14 | 2.01 | 223 | 10.92 | 0.39 | 442 | 10.78 | 1.09 |
| 6 | 11.10 | -0.29 | 224 | 10.08 | 0.78 | 443 | 11.13 | 0.18 |
| 7 | 11.07 | 0.80 | 225 | 9.16 | 0.14 | 444 | 10.23 | 0.81 |
| 8 | 11.01 | 0.98 | 226 | 10.84 | 1.79 | 445 | 11.41 | 0.23 |
| 9 | 9.62 | 0.82 | 227 | 11.35 | 0.18 | 446 | 11.38 | 0.61 |
| 10 | 8.21 | 1.40 | 228 | 10.97 | 0.27 | 447 | 9.81 | 1.63 |
| 11 | 11.52 | 0.12 | 229 | 10.78 | 0.17 | 448 | 10.52 | 0.18 |
| 12 | 12.08 | 0.06 | 230 | 10.94 | -0.32 | 449 | 10.86 | -0.12 |
| 13 | 10.02 | 0.11 | 231 | 11.10 | 1.40 | 450 | 9.63 | 0.32 |
| 14 | 11.50 | -0.56 | 232 | 11.75 | 0.03 | 451 | 10.19 | 0.17 |
| 15 | 9.52 | -0.45 | 233 | 10.16 | 1.08 | 452 | 11.90 | 0.21 |
| 16 | 10.81 | -0.07 | 234 | 11.21 | 0.43 | 453 | 10.49 | 0.83 |
| 17 | 10.07 | 1.10 | 235 | 10.39 | 0.38 | 454 | 10.31 | 0.32 |
| 18 | 10.79 | 0.18 | 236 | 11.19 | 0.87 | 455 | 9.65 | 0.80 |
| 19 | 11.70 | 0.14 | 237 | 9.79 | -0.29 | 456 | 11.52 | 0.21 |
| 20 | 10.81 | -0.12 | 238 | 10.64 | 2.09 | 457 | 10.92 | 0.33 |
| 21 | 9.93 | -0.16 | 239 | 11.78 | 1.05 | 458 | 10.73 | 0.18 |
| 22 | 11.36 | -0.43 | 240 | 10.93 | 0.06 | 459 | 11.34 | 0.47 |
| 23 | 9.13 | -0.17 | 241 | 10.49 | 0.83 | 460 | 11.19 | 1.02 |
| 24 | 11.02 | 1.42 | 242 | 11.92 | 0.10 | 461 | 11.17 | 1.36 |
| 25 | 10.39 | 1.16 | 243 | 8.11 | 1.88 | 462 | 9.23 | 0.19 |
| 26 | 11.46 | 0.20 | 244 | 12.12 | 0.14 | 463 | 10.62 | 0.45 |
| 27 | 10.92 | 0.27 | 245 | 11.71 | 0.47 | 464 | 10.58 | -0.62 |
| 28 | 11.10 | 0.08 | 246 | 10.79 | 1.75 | 465 | 10.26 | 0.21 |
| 29 | 9.83 | -0.30 | 247 | 9.31 | 1.01 | 466 | 10.76 | 0.99 |
| 30 | 11.40 | 1.46 | 248 | 11.00 | 0.91 | 467 | 12.67 | 1.17 |
| 31 | 9.66 | 0.23 | 249 | 10.14 | 0.71 | 468 | 10.52 | 0.59 |
| 32 | 10.22 | -0.32 | 250 | 10.55 | 0.36 | 469 | 11.39 | 0.12 |
| 33 | 10.84 | 1.12 | 251 | 9.78 | 1.50 | 470 | 10.63 | 1.27 |
| 34 | 8.95 | -0.11 | 252 | 11.91 | 0.26 | 471 | 11.27 | 0.38 |
| 35 | 9.85 | 0.04 | 253 | 9.97 | 1.19 | 472 | 10.37 | 0.59 |
| 36 | 10.84 | 0.03 | 254 | 11.59 | 0.05 | 473 | 11.06 | -0.07 |
| 37 | 10.45 | 1.37 | 255 | 11.31 | 0.20 | 474 | 11.76 | -0.07 |
| 38 | 11.14 | 1.34 | 256 | 10.32 | 1.20 | 475 | 10.23 | 0.35 |
| 39 | 11.38 | 0.08 | 257 | 10.51 | 0.32 | 476 | 12.33 | 0.16 |
| 40 | 11.19 | -0.17 | 258 | 10.98 | 1.98 | 477 | 9.60 | 1.37 |
| 41 | 9.24 | 0.99 | 259 | 10.78 | 1.00 | 478 | 11.46 | 0.21 |
| 42 | 9.35 | -0.56 | 260 | 10.30 | 1.72 | 479 | 11.20 | 0.06 |
| 43 | 11.24 | 0.03 | 261 | 11.75 | 1.21 | 480 | 10.94 | 0.95 |
| 44 | 11.31 | 1.09 | 262 | 11.90 | 0.21 | 481 | 11.47 | 0.67 |
| 45 | 11.71 | -0.01 | 263 | 8.74 | 1.29 | 482 | 10.75 | 0.86 |
| 46 | 11.25 | 0.50 | 264 | 10.55 | 1.15 | 483 | 10.62 | 0.63 |
| 47 | 10.09 | -0.19 | 265 | 9.98 | -0.19 | 484 | 9.56 | 1.43 |
| 48 | 11.82 | 0.12 | 266 | 11.16 | 0.42 | 485 | 9.81 | 0.93 |
| 49 | 11.61 | 0.56 | 267 | 9.40 | 0.97 | 486 | 10.13 | 1.26 |
| 50 | 10.95 | 0.53 | 268 | 11.17 | 0.51 | 487 | 11.13 | 1.20 |
| 51 | 10.27 | -0.66 | 269 | 11.38 | 0.71 | 488 | 11.61 | 0.39 |
| 52 | 11.13 | -0.33 | 270 | 10.81 | 0.55 | 489 | 10.88 | 1.09 |
| 53 | 9.17 | 1.00 | 271 | 11.35 | 0.61 | 490 | 10.41 | 0.78 |
| 54 | 9.62 | 1.13 | 272 | 10.11 | 0.17 | 491 | 9.79 | 1.15 |

Table 3. (continued)

| No | V | B-V | No | V | B-V | No | V | B-V |
|-----|-------|-------|-----|-------|-------|-----|-------|-------|
| 55 | 10.68 | 0.73 | 273 | 10.19 | 0.20 | 492 | 10.24 | 0.19 |
| 56 | 8.76 | -0.12 | 274 | 10.13 | 0.94 | 493 | 10.02 | 0.40 |
| 57 | 11.65 | 0.21 | 275 | 10.96 | 0.05 | 494 | 9.13 | 1.08 |
| 58 | 10.49 | 0.12 | 276 | 11.48 | 0.67 | 495 | 11.48 | 0.11 |
| 59 | 10.55 | -0.25 | 277 | 11.21 | 0.21 | 496 | 11.88 | 0.23 |
| 60 | 11.72 | -0.02 | 278 | 10.90 | -0.10 | 497 | 11.23 | 0.02 |
| 61 | 11.21 | 0.48 | 279 | 11.30 | 1.11 | 498 | 11.12 | -0.37 |
| 62 | 10.19 | 0.27 | 280 | 11.34 | -0.26 | 499 | 10.85 | -0.05 |
| 63 | 10.74 | 0.84 | 281 | 11.42 | 0.02 | 500 | 9.66 | -0.51 |
| 64 | 10.77 | -0.25 | 282 | 9.08 | 0.58 | 501 | 9.80 | 0.25 |
| 65 | 10.59 | -0.30 | 283 | 7.68 | 1.48 | 502 | 10.87 | 0.23 |
| 66 | 11.38 | -0.30 | 284 | 11.34 | 0.23 | 503 | 10.73 | 0.13 |
| 67 | 10.44 | 0.76 | 285 | 10.84 | 1.13 | 504 | 10.40 | 1.66 |
| 68 | 10.52 | -0.23 | 286 | 11.05 | 2.07 | 505 | 7.85 | 2.02 |
| 69 | 10.32 | 0.87 | 287 | 11.49 | 1.90 | 506 | 9.88 | 0.82 |
| 70 | 10.54 | 1.58 | 288 | 11.77 | 1.18 | 507 | 7.39 | -0.22 |
| 71 | 10.77 | 0.27 | 289 | 10.33 | -0.19 | 508 | 11.61 | 0.18 |
| 72 | 11.52 | 0.10 | 290 | 9.84 | -0.13 | 509 | 11.08 | -0.49 |
| 73 | 10.90 | -0.20 | 291 | 10.43 | -0.05 | 510 | 11.06 | 0.65 |
| 74 | 11.35 | 0.89 | 292 | 10.29 | 1.10 | 511 | 9.34 | 0.49 |
| 75 | 9.36 | 0.14 | 293 | 10.48 | 0.28 | 512 | 9.61 | -0.03 |
| 76 | 8.13 | 0.43 | 294 | 11.17 | 1.50 | 513 | 11.40 | 0.66 |
| 77 | 11.89 | -0.02 | 295 | 7.23 | 0.74 | 514 | 9.80 | 0.28 |
| 78 | 11.64 | 0.04 | 296 | 10.02 | -0.11 | 515 | 11.62 | 0.56 |
| 79 | 11.19 | 0.78 | 297 | 9.13 | 0.64 | 516 | 11.44 | 0.55 |
| 80 | 12.12 | 0.13 | 298 | 7.90 | 0.66 | 517 | 10.04 | 1.45 |
| 81 | 9.89 | 0.59 | 299 | 11.30 | 0.25 | 518 | 10.58 | 0.23 |
| 82 | 9.24 | 0.72 | 300 | 10.86 | -0.12 | 519 | 11.71 | 0.74 |
| 83 | 10.90 | 0.57 | 302 | 11.03 | 1.32 | 520 | 11.44 | 0.13 |
| 84 | 10.58 | 0.77 | 303 | 10.93 | 0.06 | 521 | 10.16 | 1.34 |
| 85 | 10.92 | 1.35 | 304 | 12.10 | 0.64 | 522 | 10.92 | -0.02 |
| 86 | 10.06 | -0.31 | 305 | 9.81 | 1.80 | 523 | 9.25 | 0.78 |
| 87 | 10.95 | 0.21 | 306 | 11.04 | 0.45 | 524 | 9.75 | 0.82 |
| 88 | 11.51 | 0.45 | 307 | 11.11 | -0.11 | 525 | 11.86 | 1.07 |
| 89 | 8.00 | 1.63 | 308 | 9.90 | 0.98 | 526 | 11.00 | 0.28 |
| 90 | 11.35 | 1.45 | 309 | 10.34 | 1.71 | 527 | 8.36 | 0.86 |
| 91 | 10.61 | 0.05 | 310 | 12.06 | 0.31 | 528 | 8.31 | -0.11 |
| 92 | 10.77 | 0.01 | 311 | 11.21 | 0.97 | 529 | 10.98 | 1.69 |
| 93 | 11.52 | 0.48 | 312 | 11.11 | 0.50 | 530 | 8.34 | -0.24 |
| 94 | 11.96 | -0.08 | 313 | 10.87 | 1.48 | 531 | 10.98 | 0.24 |
| 95 | 11.02 | -0.06 | 314 | 11.09 | 0.37 | 532 | 11.09 | 0.56 |
| 96 | 10.48 | 0.28 | 315 | 11.30 | 0.42 | 533 | 10.86 | -0.16 |
| 97 | 10.81 | 1.10 | 316 | 11.63 | 1.46 | 534 | 11.30 | 0.93 |
| 98 | 10.42 | 0.27 | 317 | 10.43 | 0.22 | 535 | 11.95 | 0.30 |
| 99 | 11.17 | 0.21 | 318 | 9.16 | 0.50 | 536 | 10.88 | 0.31 |
| 100 | 10.05 | -0.11 | 319 | 11.63 | 0.47 | 537 | 11.52 | 1.01 |
| 101 | 10.55 | 0.20 | 320 | 11.24 | 0.93 | 538 | 11.10 | 1.75 |
| 102 | 8.78 | 0.49 | 321 | 10.24 | 0.98 | 539 | 9.16 | 0.77 |
| 103 | 11.03 | 0.39 | 322 | 10.03 | 0.14 | 540 | 9.44 | 1.26 |
| 104 | 10.65 | 0.13 | 323 | 10.89 | 0.44 | 541 | 10.18 | 1.54 |
| 105 | 11.25 | -0.04 | 324 | 11.97 | 0.18 | 542 | 11.27 | 0.28 |
| 106 | 10.67 | 0.45 | 325 | 12.54 | 0.55 | 543 | 10.69 | 1.24 |
| 107 | 10.37 | 0.67 | 326 | 10.43 | 1.21 | 544 | 7.76 | 1.84 |
| 108 | 10.90 | -0.81 | 327 | 10.76 | 0.26 | 545 | 11.62 | 0.40 |
| 109 | 10.32 | -0.24 | 328 | 10.18 | 0.25 | 546 | 10.28 | 0.99 |

Table 3. (continued)

| No | V | B-V | No | V | B-V | No | V | B-V |
|-----|-------|-------|-----|-----------|-------|-----|-------|-------|
| 110 | 9.64 | -0.03 | 329 | 10.95 | 0.27 | 547 | 11.13 | 1.23 |
| 111 | 10.73 | -0.77 | 330 | 10.98 | 0.45 | 548 | 11.42 | 1.72 |
| 112 | 10.02 | -0.12 | 331 | 9.03 | -0.42 | 549 | 10.48 | 0.92 |
| 113 | 11.75 | 1.31 | 332 | 11.77 | 0.59 | 550 | 11.20 | 0.15 |
| 114 | 11.51 | -0.08 | 333 | 10.71 | 1.04 | 551 | 9.82 | 1.35 |
| 115 | 11.39 | 0.10 | 334 | 12.01 | 0.33 | 552 | 11.48 | -0.29 |
| 116 | 11.18 | 0.64 | 335 | 8.76 | 1.48 | 553 | 9.08 | 1.59 |
| 117 | 10.73 | 1.05 | 336 | 12.03 | -0.02 | 554 | 9.84 | 0.95 |
| 118 | 10.63 | 0.02 | 337 | 8.11 | 1.29 | 555 | 11.23 | 1.36 |
| 119 | 11.73 | -0.49 | 338 | 10.67 | -0.20 | 556 | 9.84 | 1.08 |
| 120 | 9.93 | 0.74 | 339 | 10.56 | 0.20 | 557 | 11.77 | 0.24 |
| 121 | 9.01 | 1.68 | 340 | 7.19 | 1.56 | 558 | 10.35 | 0.12 |
| 122 | 11.49 | -0.09 | 341 | 11.87 | 0.20 | 559 | 10.40 | 0.65 |
| 123 | 11.07 | -0.12 | 342 | 9.90 | -0.14 | 560 | 8.89 | 1.45 |
| 124 | 9.31 | 1.09 | 343 | 10.74 | 0.01 | 561 | 10.14 | 0.11 |
| 125 | 11.27 | -0.04 | 344 | 10.40 | 0.70 | 562 | 10.76 | 2.19 |
| 126 | 9.65 | 1.28 | 345 | 9.79.0.93 | | 563 | 10.54 | 0.95 |
| 127 | 9.03 | 1.87 | 346 | 8.92 | -0.49 | 564 | 11.44 | 0.08 |
| 128 | 10.86 | 1.36 | 347 | 11.09 | 1.92 | 565 | 10.25 | 1.73 |
| 129 | 11.87 | 0.68 | 348 | 13.45 | 0.04 | 566 | 10.52 | 0.40 |
| 130 | 11.22 | 0.51 | 349 | 12.22 | 0.26 | 567 | 10.33 | -0.22 |
| 131 | 11.13 | 0.95 | 350 | 10.58 | 0.88 | 568 | 10.74 | 1.36 |
| 132 | 11.29 | 0.33 | 351 | 11.26 | 0.38 | 569 | 9.32 | 0.97 |
| 133 | 10.05 | -0.01 | 352 | 11.15 | 1.41 | 570 | 11.58 | 0.32 |
| 134 | 9.99 | 1.33 | 353 | 8.65 | 0.70 | 571 | 10.22 | 0.78 |
| 135 | 8.89 | 0.39 | 354 | 11.01 | 0.29 | 572 | 12.38 | 0.74 |
| 136 | 11.14 | 0.28 | 355 | 11.62 | 1.76 | 573 | 8.89 | 0.01 |
| 137 | 9.60 | 0.28 | 356 | 11.95 | 0.54 | 574 | 11.39 | -0.07 |
| 138 | 11.18 | 2.07 | 357 | 8.80 | 1.31 | 575 | 10.11 | 1.10 |
| 139 | 11.89 | -0.02 | 358 | 10.51 | 0.87 | 576 | 11.03 | 0.32 |
| 140 | 9.00 | 0.70 | 359 | 11.68 | 0.52 | 577 | 9.80 | -0.13 |
| 141 | 11.35 | 0.64 | 360 | 10.90 | 1.76 | 578 | 11.00 | 0.51 |
| 142 | 11.10 | 0.98 | 361 | 10.50 | 1.85 | 579 | 11.08 | 0.21 |
| 143 | 9.83 | 1.75 | 362 | 11.56 | 0.70 | 580 | 10.62 | -0.05 |
| 144 | 10.26 | 1.77 | 363 | 10.25 | 1.58 | 581 | 11.03 | -0.13 |
| 145 | 11.07 | 1.28 | 364 | 10.66 | 1.89 | 582 | 9.30 | 1.10 |
| 146 | 11.31 | 1.77 | 365 | 10.42 | 0.01 | 583 | 11.76 | 0.16 |
| 147 | 9.72 | 0.99 | 366 | 10.09 | 0.75 | 584 | 10.78 | 1.63 |
| 148 | 11.11 | 0.19 | 367 | 10.26 | -0.43 | 585 | 10.19 | 0.92 |
| 149 | 11.13 | 1.02 | 368 | 10.13 | -0.99 | 586 | 12.01 | 0.09 |
| 150 | 9.99 | 0.72 | 369 | 10.37 | 0.80 | 587 | 11.42 | -0.25 |
| 151 | 10.19 | 1.46 | 370 | 11.34 | 0.14 | 588 | 10.35 | 0.91 |
| 152 | 11.54 | 0.00 | 371 | 11.26 | 1.70 | 589 | 11.91 | 1.35 |
| 153 | 10.56 | 0.83 | 372 | 11.59 | 1.39 | 590 | 9.99 | 1.73 |
| 154 | 10.66 | 0.54 | 373 | 11.39 | 1.01 | 591 | 9.69 | 0.38 |
| 155 | 10.13 | -0.49 | 374 | 11.44 | 1.50 | 592 | 11.87 | 0.22 |
| 156 | 12.42 | 0.51 | 375 | 8.79 | 1.35 | 593 | 10.65 | -0.11 |
| 157 | 11.73 | -0.11 | 376 | 10.44 | 1.53 | 594 | 11.95 | -0.05 |
| 158 | 10.32 | 1.47 | 377 | 9.77 | 0.39 | 595 | 10.10 | 0.07 |
| 159 | 10.33 | 1.10 | 378 | 11.81 | 1.56 | 596 | 9.80 | 1.21 |
| 160 | 10.81 | 0.98 | 379 | 10.40 | 1.10 | 597 | 10.71 | 0.06 |
| 161 | 9.67 | 1.65 | 380 | 11.79 | 0.06 | 598 | 11.57 | -0.03 |
| 162 | 10.99 | 0.31 | 381 | 10.51 | 0.96 | 599 | 11.51 | 0.48 |
| 163 | 10.38 | 0.12 | 382 | 12.17 | 0.37 | 600 | 10.71 | -0.46 |
| 164 | 10.21 | 0.58 | 383 | 8.91 | 0.34 | 601 | 13.22 | 0.22 |

Table 3. (continued)

| No | V | B-V | No | V | B-V | No | V | B-V |
|-----|-------|-------|-----|-------|-------|-----|-------|-------|
| 166 | 8.96 | 1.09 | 385 | 8.71 | 1.96 | 603 | 11.01 | 0.43 |
| 167 | 11.80 | 0.39 | 386 | 10.86 | 1.06 | 604 | 9.67 | 1.94 |
| 168 | 9.80 | 0.58 | 387 | 12.23 | 0.16 | 605 | 11.07 | 2.10 |
| 169 | 11.21 | 0.70 | 388 | 10.64 | -0.20 | 606 | 11.14 | 0.01 |
| 170 | 10.85 | 0.12 | 389 | 11.04 | 0.26 | 607 | 10.70 | 1.08 |
| 171 | 9.97 | 1.86 | 390 | 11.56 | 0.73 | 608 | 10.30 | 0.73 |
| 172 | 11.37 | 0.30 | 391 | 11.69 | 0.54 | 609 | 11.37 | 0.12 |
| 173 | 10.84 | 0.02 | 392 | 10.31 | 0.38 | 610 | 11.28 | -0.22 |
| 174 | 10.45 | 0.31 | 393 | 11.17 | -0.22 | 611 | 10.32 | -0.72 |
| 175 | 10.51 | 1.63 | 394 | 8.03 | 0.15 | 612 | 11.30 | -0.14 |
| 176 | 8.79 | 1.23 | 395 | 11.65 | 0.56 | 613 | 8.93 | -0.57 |
| 177 | 10.84 | 0.28 | 396 | 11.13 | 1.91 | 614 | 10.39 | 1.11 |
| 178 | 11.83 | 0.45 | 397 | 11.55 | 0.45 | 615 | 10.60 | 0.75 |
| 179 | 11.01 | 0.30 | 398 | 10.44 | 0.32 | 616 | 11.38 | 0.50 |
| 180 | 10.00 | -0.04 | 399 | 10.32 | 0.48 | 617 | 10.13 | 1.12 |
| 181 | 8.27 | 0.83 | 400 | 11.02 | 0.41 | 618 | 10.22 | 0.89 |
| 182 | 9.47 | 0.01 | 401 | 11.94 | 0.50 | 619 | 11.37 | 0.23 |
| 183 | 10.59 | 0.15 | 402 | 11.53 | 0.59 | 620 | 11.11 | 0.37 |
| 184 | 11.40 | 0.17 | 403 | 10.13 | 1.55 | 621 | 11.52 | 0.06 |
| 185 | 10.45 | 0.32 | 404 | 11.26 | 0.54 | 622 | 10.46 | 0.52 |
| 186 | 9.51 | 0.18 | 405 | 9.94 | 0.36 | 623 | 11.32 | -0.42 |
| 187 | 9.44 | 0.21 | 406 | 11.91 | 0.28 | 624 | 11.59 | -0.49 |
| 188 | 11.27 | 0.12 | 407 | 12.57 | 0.78 | 625 | 11.49 | 0.42 |
| 189 | 10.76 | 0.14 | 408 | 12.17 | 0.58 | 626 | 10.33 | 1.05 |
| 190 | 10.12 | 1.23 | 409 | 10.98 | 1.10 | 627 | 10.12 | 1.40 |
| 191 | 10.77 | 1.33 | 410 | 11.59 | 0.79 | 628 | 11.05 | 0.00 |
| 192 | 10.99 | 0.43 | 411 | 10.29 | 1.37 | 629 | 10.36 | 0.30 |
| 193 | 11.78 | 0.04 | 412 | 10.46 | 1.20 | 630 | 11.21 | 0.31 |
| 194 | 10.31 | 1.30 | 413 | 9.36 | 0.44 | 631 | 11.14 | 0.72 |
| 195 | 11.25 | 1.00 | 414 | 10.02 | -0.06 | 632 | 11.19 | -0.42 |
| 196 | 10.55 | 0.21 | 415 | 9.47 | 0.62 | 633 | 10.57 | 1.42 |
| 197 | 11.69 | 0.87 | 416 | 11.14 | 1.40 | 634 | 11.08 | 0.32 |
| 198 | 8.85 | 1.94 | 417 | 10.54 | 0.29 | 635 | 11.06 | -0.08 |
| 199 | 9.53 | 1.17 | 418 | 10.96 | 0.07 | 636 | 11.45 | 0.04 |
| 200 | 12.51 | 0.12 | 419 | 11.90 | 0.34 | 637 | 10.23 | -0.35 |
| 201 | 11.35 | 0.39 | 420 | 9.94 | 2.20 | 638 | 11.22 | -0.26 |
| 202 | 10.84 | 0.37 | 421 | 9.40 | 0.36 | 639 | 9.68 | 0.52 |
| 203 | 11.45 | -0.08 | 422 | 9.70 | 1.05 | 640 | 11.30 | -0.09 |
| 204 | 10.50 | 1.36 | 423 | 8.93 | 0.87 | 641 | 11.70 | -0.11 |
| 205 | 8.68 | 1.66 | 424 | 9.94 | -0.23 | 642 | 11.74 | 0.08 |
| 206 | 11.22 | 0.40 | 425 | 11.67 | 0.31 | 643 | 11.62 | 0.29 |
| 207 | 10.54 | 1.00 | 426 | 11.47 | 0.42 | 644 | 9.78 | 0.74 |
| 208 | 10.24 | 1.35 | 427 | 10.56 | 0.31 | 645 | 10.60 | -0.15 |
| 209 | 10.47 | 0.40 | 428 | 11.63 | 0.04 | 646 | 11.51 | -0.19 |
| 210 | 9.82 | -0.19 | 429 | 9.84 | 0.94 | 647 | 10.33 | 0.46 |
| 211 | 10.40 | 1.48 | 430 | 11.39 | 0.80 | 648 | 11.02 | 0.99 |
| 212 | 10.31 | 0.88 | 431 | 10.65 | -0.05 | 649 | 9.76 | 0.92 |
| 213 | 10.94 | 0.43 | 432 | 11.32 | 1.06 | 650 | 10.49 | 0.38 |
| 214 | 10.17 | -0.34 | 433 | 9.96 | -0.06 | 651 | 10.61 | 0.65 |
| 215 | 11.77 | 0.99 | 434 | 9.48 | 0.97 | 652 | 9.57 | 0.70 |
| 216 | 10.56 | 0.95 | 435 | 10.13 | 0.41 | 653 | 11.32 | 0.26 |
| 217 | 10.15 | -0.01 | 436 | 11.29 | 0.39 | | | |
| 218 | 10.88 | 0.22 | 437 | 9.93 | 1.86 | | | |

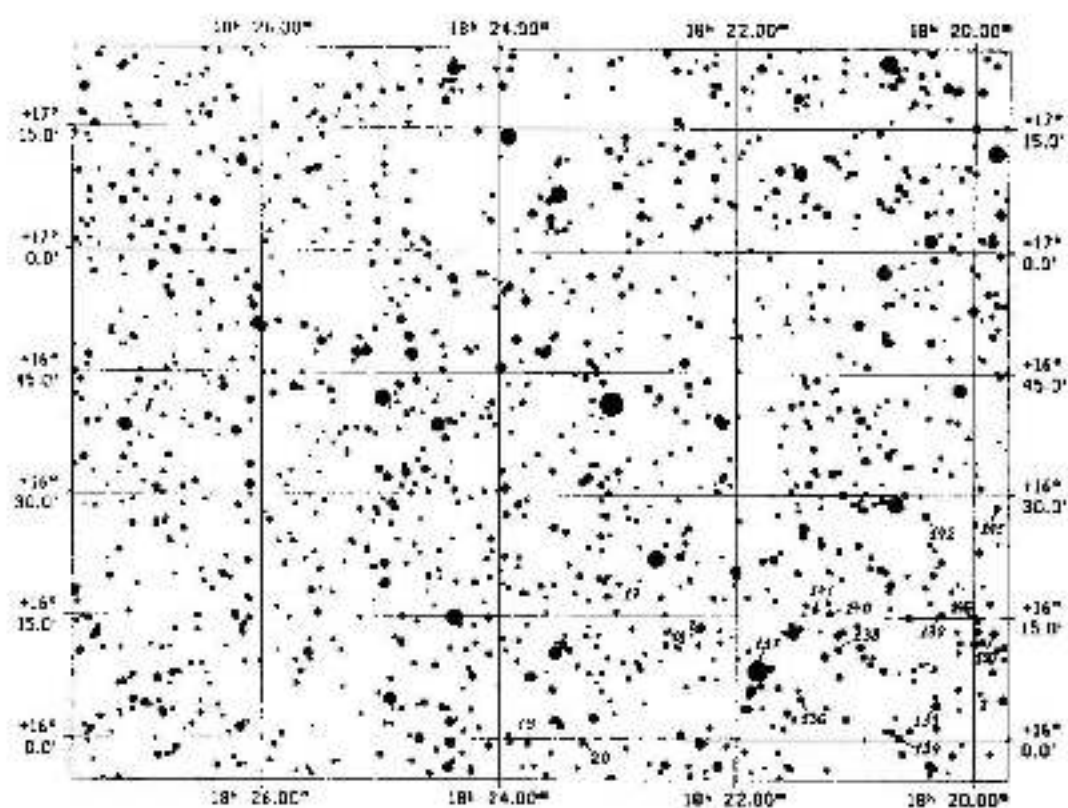


Fig. 20: KA 86, fragment 1

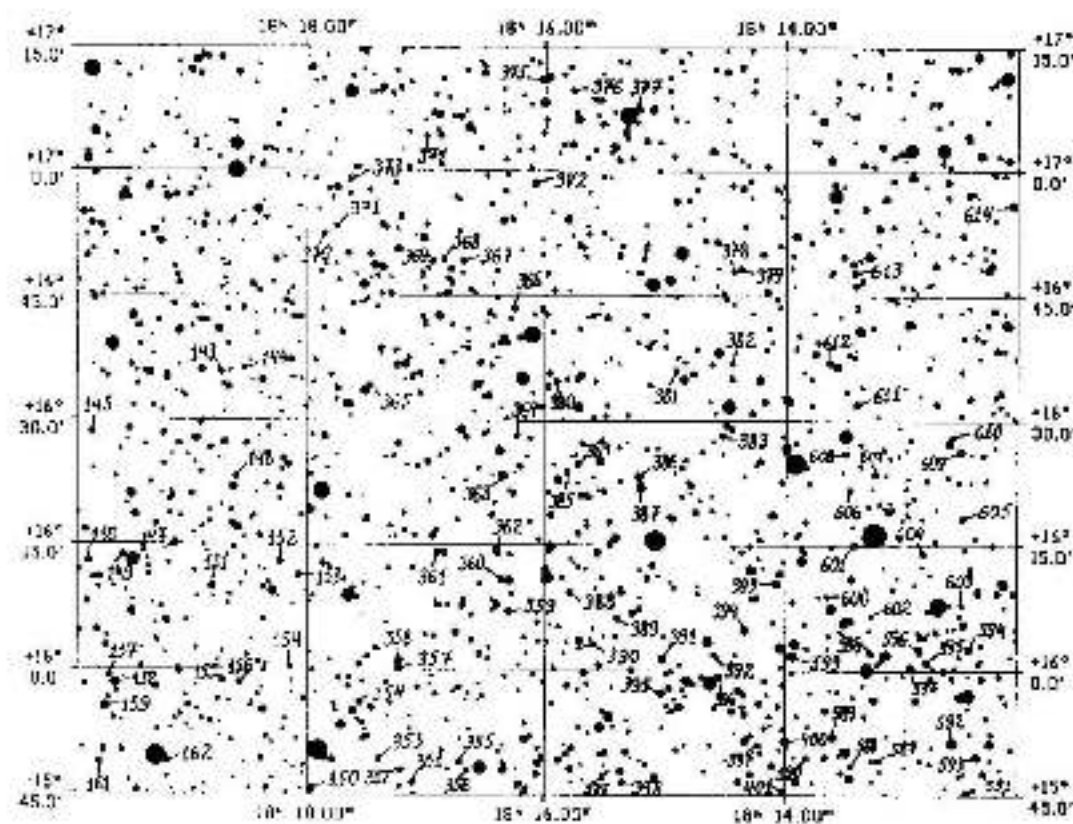


Fig. 21: KA 86, fragment 2

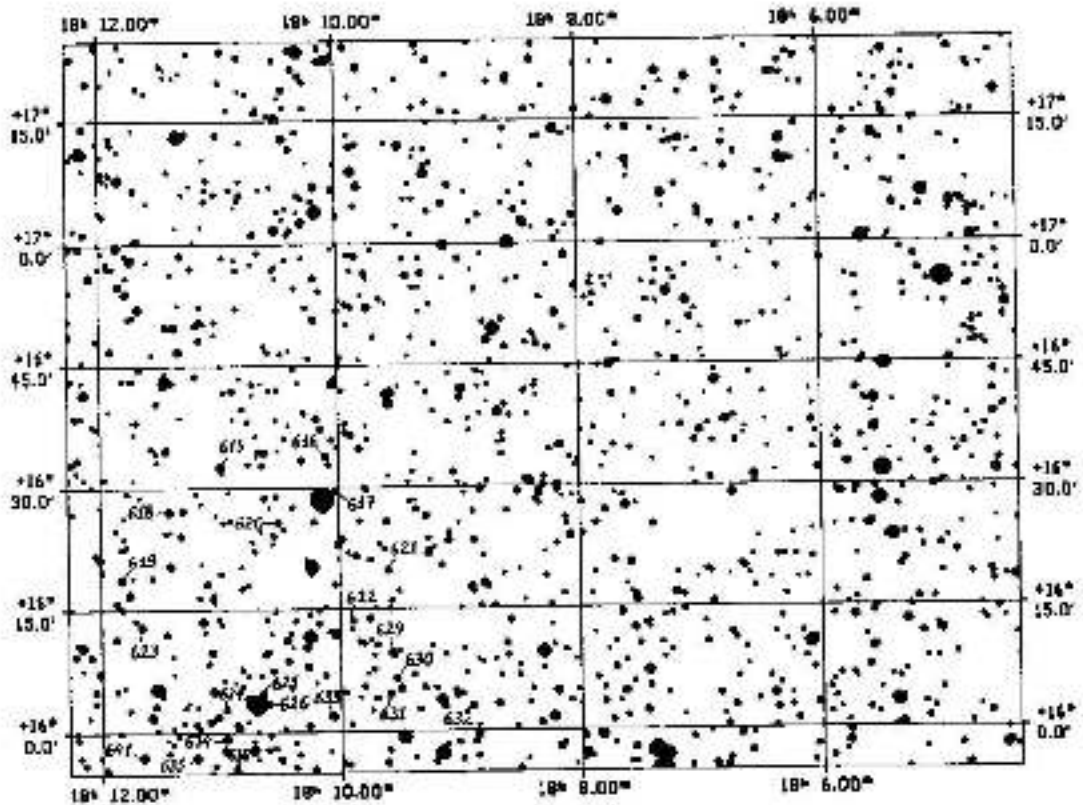


Fig. 22: KA-86, fragment 3

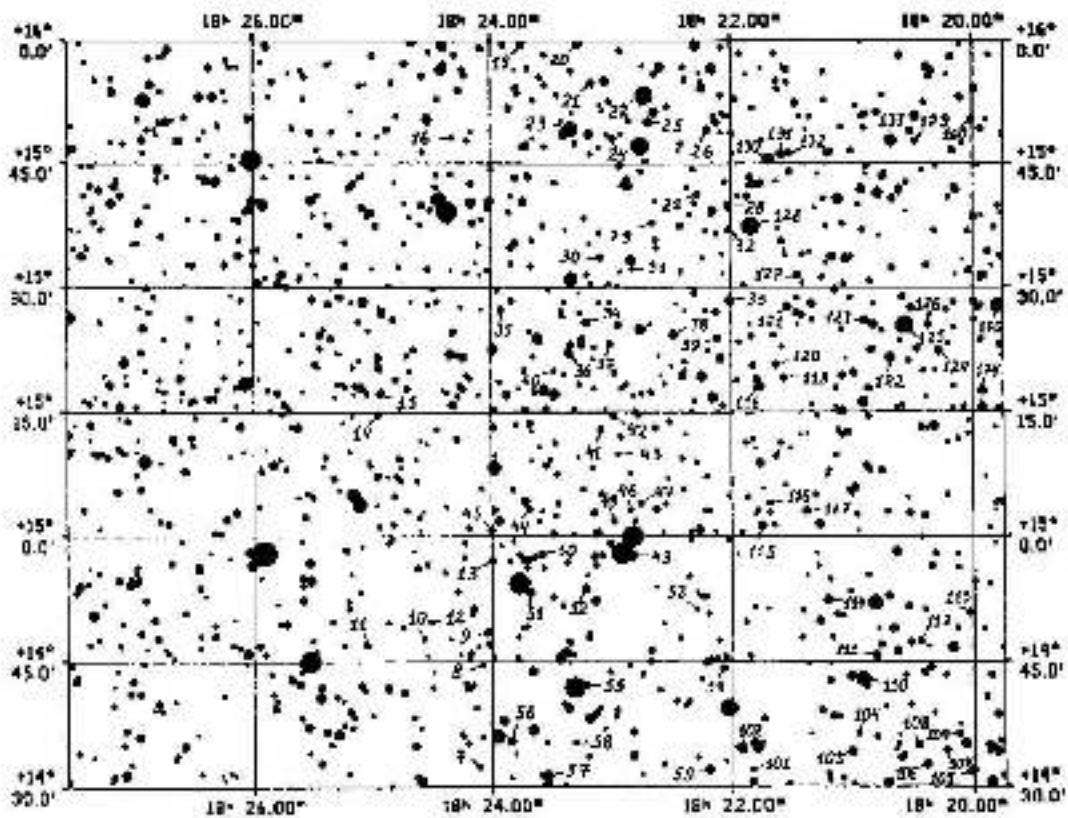


Fig. 23: KA-86, fragment 4

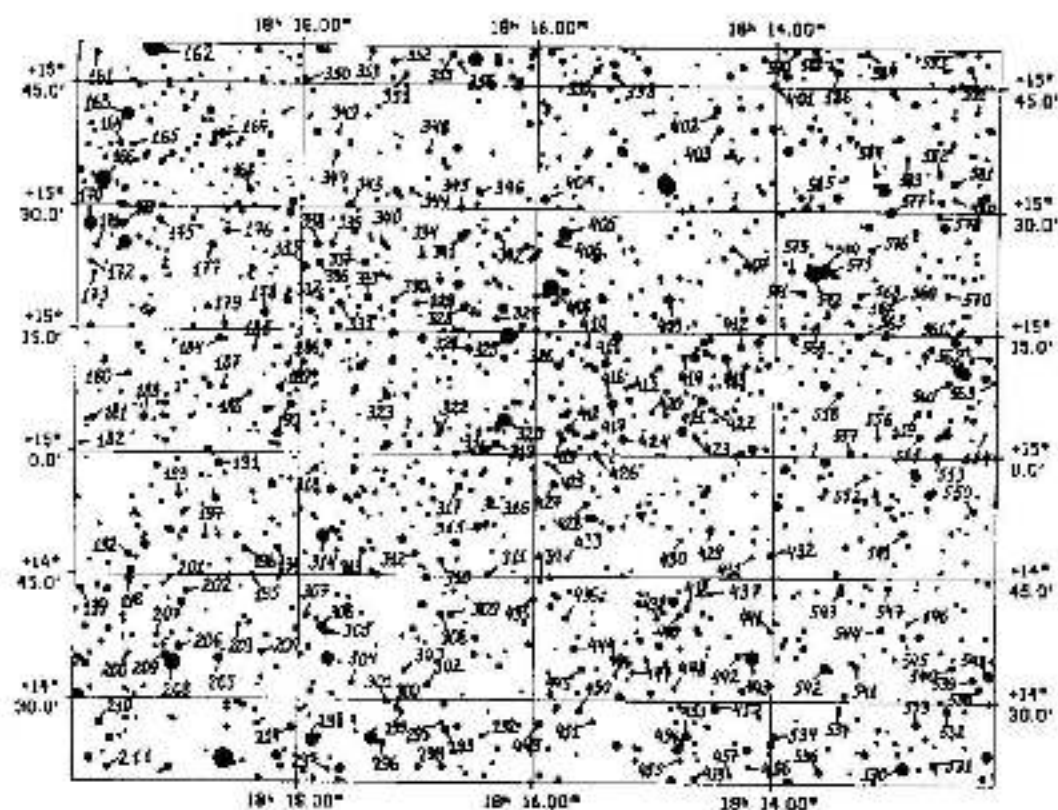


Fig. 24: KA-86, fragment 5

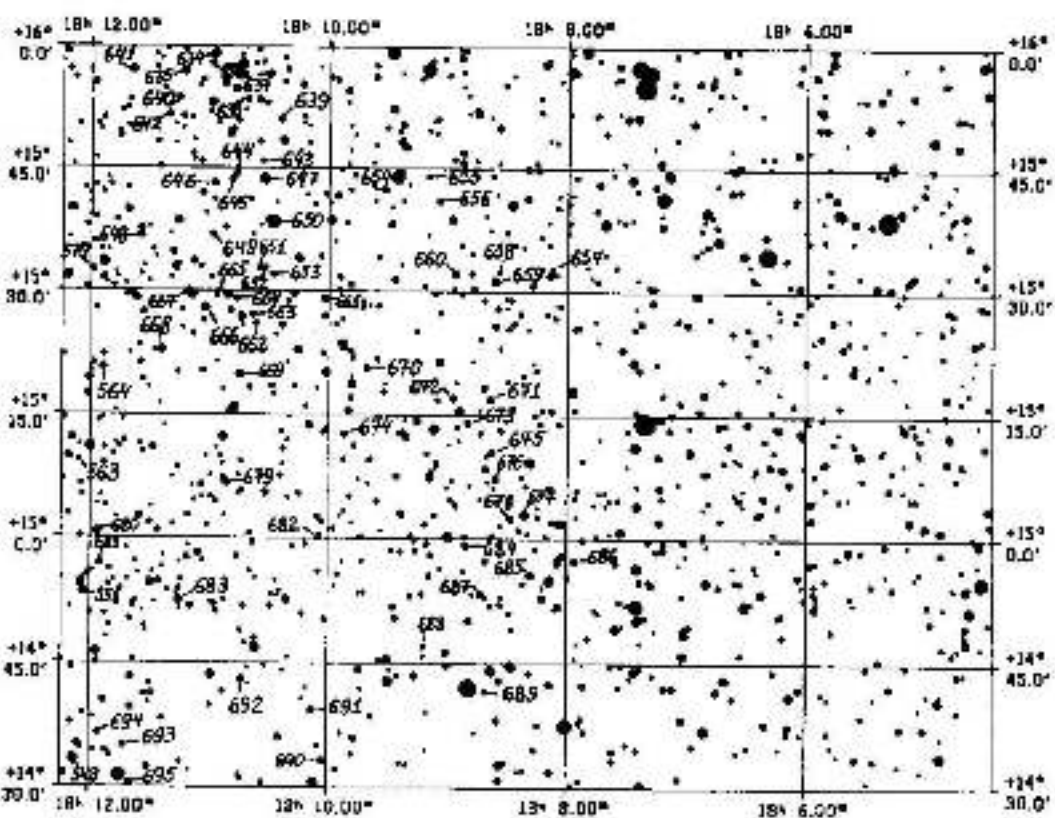


Fig. 25: KA-86, fragment 6

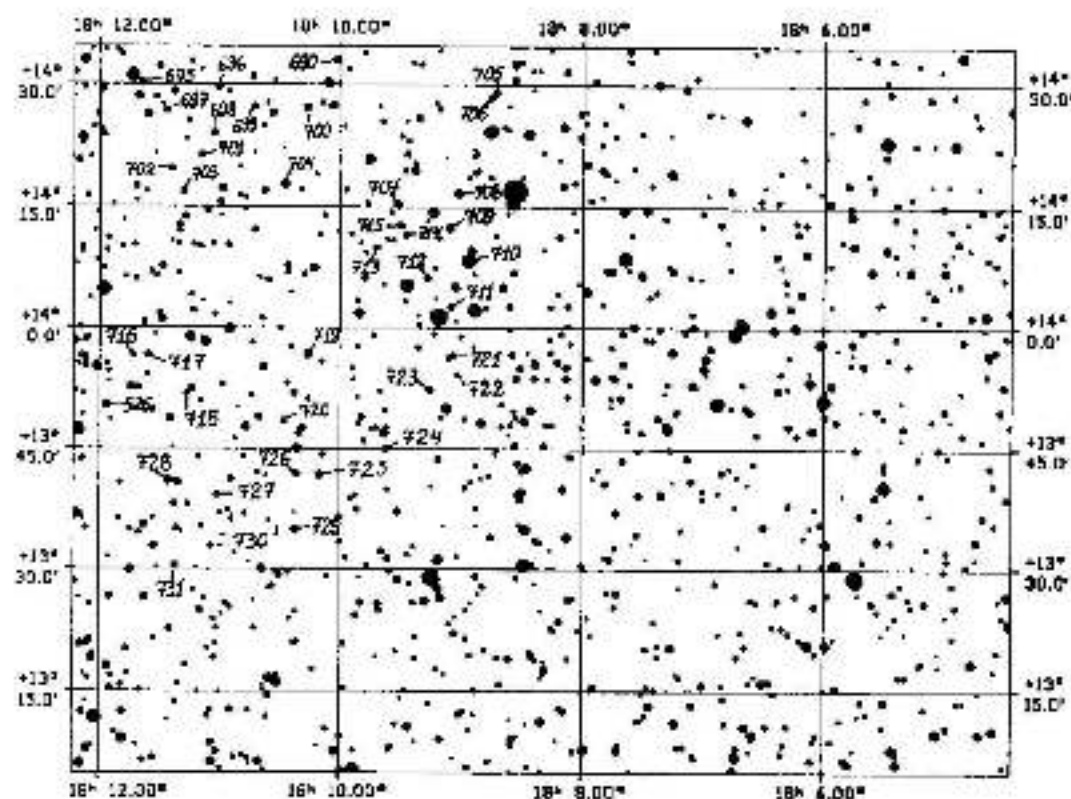


Fig. 28. KA-86, fragment 9

Table 4. Kapteyn Area KA-86: magnitudes and color indices of stars

| No | V | B-V | No | V | B-V | No | V | B-V |
|----|-------|------|-----|-------|------|-----|-------|------|
| 1 | 13.22 | 1.73 | 246 | 12.64 | 0.47 | 491 | 12.79 | 1.76 |
| 2 | 11.54 | 0.93 | 247 | 9.73 | 0.60 | 492 | 12.16 | 1.46 |
| 3 | 11.36 | 1.98 | 248 | 10.80 | 2.39 | 493 | 11.88 | 1.44 |
| 4 | 13.04 | 0.95 | 249 | 12.46 | 0.64 | 494 | 12.50 | 1.20 |
| 5 | 12.71 | 1.07 | 250 | 11.89 | 0.11 | 495 | 12.60 | 0.72 |
| 6 | 12.48 | 1.76 | 251 | 12.05 | 2.25 | 496 | 11.15 | 0.57 |
| 7 | 12.87 | 1.95 | 252 | 11.68 | 0.64 | 497 | 12.17 | 0.35 |
| 8 | 12.60 | 2.06 | 253 | 11.20 | 1.18 | 498 | 12.29 | 1.24 |
| 9 | 12.71 | 1.44 | 254 | 12.30 | 0.99 | 499 | 10.06 | 1.88 |
| 10 | 13.01 | 0.60 | 255 | 13.04 | 0.21 | 500 | 10.98 | 0.94 |
| 11 | 10.96 | 0.71 | 256 | 12.27 | 0.86 | 501 | 11.64 | 2.48 |
| 12 | 12.69 | 1.64 | 257 | 11.78 | 1.27 | 502 | 12.73 | 0.59 |
| 13 | 11.18 | 0.55 | 258 | 9.71 | 1.64 | 503 | 12.27 | 1.73 |
| 14 | 12.01 | 0.70 | 259 | 11.38 | 0.87 | 504 | 10.02 | 1.12 |
| 15 | 11.27 | 1.60 | 260 | 9.49 | 1.08 | 505 | 11.68 | 0.67 |
| 16 | 12.49 | 0.60 | 261 | 11.93 | 0.44 | 506 | 9.53 | 2.53 |
| 17 | 11.63 | 2.31 | 262 | 11.20 | 0.94 | 507 | 12.43 | 0.67 |
| 18 | 11.37 | 1.85 | 263 | 11.53 | 2.13 | 508 | 12.71 | 0.78 |
| 19 | 12.70 | 0.30 | 264 | 12.27 | 2.09 | 509 | 11.03 | 1.07 |
| 20 | 12.53 | 1.15 | 265 | 12.84 | 1.68 | 510 | 12.69 | 0.63 |
| 21 | 11.79 | 1.12 | 266 | 11.55 | 1.20 | 511 | 12.79 | 0.13 |
| 22 | 7.93 | 1.69 | 267 | 10.75 | 1.66 | 512 | 8.76 | 1.89 |
| 23 | 9.19 | 1.05 | 268 | 11.27 | 1.55 | 513 | 10.90 | 1.65 |
| 24 | 12.03 | 0.96 | 269 | 12.54 | 1.13 | 514 | 8.90 | 2.01 |
| 25 | 11.39 | 0.60 | 270 | 12.35 | 1.94 | 515 | 7.48 | 1.72 |

Table 4. (continued)

| No | V | B-V | No | V | B-V | No | V | B-V |
|----|-------|-------|-----|-------|------|-----|-------|------|
| 26 | 12.42 | 1.40 | 271 | 11.04 | 1.82 | 516 | 12.57 | 1.36 |
| 27 | 12.26 | 1.10 | 272 | 11.31 | 1.66 | 517 | 10.32 | 2.48 |
| 28 | 11.32 | 1.50 | 273 | 11.53 | 0.20 | 518 | 12.63 | 0.21 |
| 29 | 12.12 | 2.11 | 274 | 11.75 | 1.25 | 519 | 11.52 | 0.84 |
| 30 | 12.47 | 0.93 | 275 | 9.39 | 1.47 | 520 | 11.56 | 1.56 |
| 31 | 12.83 | 0.73 | 276 | 12.81 | 1.54 | 521 | 12.81 | 1.22 |
| 32 | 12.01 | 1.10 | 277 | 12.56 | 1.87 | 522 | 11.16 | 0.77 |
| 33 | 11.07 | 1.74 | 278 | 13.21 | 0.74 | 523 | 11.72 | 0.36 |
| 34 | 11.41 | 1.73 | 279 | 12.06 | 1.73 | 524 | 11.96 | 1.57 |
| 35 | 12.35 | 2.31 | 280 | 12.37 | 1.16 | 525 | 11.95 | 1.72 |
| 36 | 11.70 | 1.55 | 281 | 11.92 | 0.87 | 526 | 11.25 | 1.65 |
| 37 | 12.01 | 1.12 | 282 | 12.79 | 0.71 | 527 | 12.28 | 1.00 |
| 38 | 10.68 | 2.12 | 283 | 11.96 | 0.59 | 528 | 12.53 | 0.98 |
| 39 | 12.74 | 0.59 | 284 | 9.16 | 1.77 | 529 | 12.21 | 1.68 |
| 40 | 13.21 | 1.68 | 285 | 11.70 | 1.41 | 530 | 8.88 | 0.82 |
| 41 | 12.90 | 1.79 | 286 | 11.46 | 2.00 | 531 | 12.72 | 1.17 |
| 42 | 12.69 | 1.43 | 287 | 12.80 | 1.00 | 532 | 11.30 | 1.89 |
| 43 | 12.76 | 1.04 | 288 | 11.80 | 2.00 | 533 | 11.53 | 2.07 |
| 44 | 13.05 | 1.70 | 289 | 8.58 | 1.79 | 534 | 12.28 | 0.63 |
| 45 | 13.29 | 0.23 | 290 | 12.73 | 0.95 | 535 | 9.87 | 1.45 |
| 46 | 12.83 | 1.86 | 291 | 10.05 | 1.50 | 536 | 10.78 | 1.52 |
| 47 | 12.17 | 1.56 | 292 | 12.45 | 0.66 | 537 | 12.18 | 1.51 |
| 48 | 12.08 | 1.49 | 293 | 11.23 | 1.24 | 538 | 12.23 | 0.91 |
| 49 | 9.93 | 1.61 | 294 | 12.06 | 1.25 | 539 | 11.92 | 0.95 |
| 50 | 12.55 | 0.51 | 295 | 13.03 | - | 540 | 11.73 | 1.09 |
| 51 | 11.00 | 1.33 | 296 | 12.27 | 1.38 | 541 | 12.64 | 1.85 |
| 52 | 10.63 | 2.46 | 297 | 12.55 | 1.47 | 542 | 9.89 | 0.72 |
| 53 | 12.93 | 1.65 | 298 | 9.04 | 0.51 | 543 | 10.88 | 1.27 |
| 54 | 11.92 | 1.47 | 299 | 12.80 | 1.68 | 544 | 12.66 | 1.91 |
| 55 | 11.72 | 1.76 | 300 | 11.44 | 1.26 | 545 | 12.90 | 1.35 |
| 56 | 12.32 | 1.39 | 301 | 11.23 | 1.41 | 546 | 13.16 | 0.57 |
| 57 | 9.93 | 2.02 | 302 | 12.35 | 1.15 | 547 | 11.80 | 0.91 |
| 58 | 12.63 | - | 303 | 12.71 | 0.54 | 548 | 9.84 | 1.17 |
| 59 | 11.19 | 0.56 | 304 | 12.33 | 1.15 | 549 | 11.68 | 1.38 |
| 60 | 11.94 | 1.78 | 305 | 11.03 | 1.77 | 550 | 12.82 | 1.23 |
| 61 | 11.93 | 0.28 | 306 | 10.42 | 1.94 | 551 | 11.58 | 0.91 |
| 62 | 12.87 | 0.65 | 307 | 11.56 | 2.33 | 552 | 12.36 | 0.81 |
| 63 | 11.72 | 1.77 | 308 | 12.14 | 0.87 | 553 | 10.38 | 1.80 |
| 64 | 11.83 | 0.32 | 309 | 12.12 | 0.90 | 554 | 13.25 | 1.39 |
| 65 | 12.50 | 0.64 | 310 | 11.04 | 0.85 | 555 | 12.67 | 0.61 |
| 66 | 11.29 | 0.88 | 311 | 11.93 | 0.76 | 556 | 13.16 | 1.09 |
| 67 | 11.91 | 1.17 | 312 | 11.39 | 0.53 | 557 | 12.00 | 1.78 |
| 68 | 13.09 | 1.42 | 313 | 12.57 | 2.31 | 558 | 11.58 | 0.88 |
| 69 | 11.05 | 1.05 | 314 | 10.36 | 1.36 | 559 | 12.58 | 0.68 |
| 70 | 12.35 | 1.31 | 315 | 11.97 | 0.73 | 560 | 11.73 | 1.12 |
| 71 | 11.30 | 0.71 | 316 | 11.93 | 1.58 | 561 | 11.83 | 0.94 |
| 72 | 11.11 | 1.28 | 317 | 11.09 | 1.06 | 562 | 12.48 | 0.41 |
| 73 | 10.63 | 0.71 | 318 | 12.76 | 1.44 | 563 | 12.80 | 0.76 |
| 74 | 10.72 | 1.61 | 319 | 11.84 | 0.94 | 564 | 12.18 | 0.64 |
| 75 | 12.72 | 1.75 | 320 | 9.20 | 1.54 | 565 | 11.62 | 1.78 |
| 76 | 12.61 | 1.47 | 321 | 13.03 | 0.41 | 566 | 12.18 | 0.47 |
| 77 | 12.04 | 1.62 | 322 | 12.11 | 1.35 | 567 | 12.99 | 1.46 |
| 78 | 13.19 | - | 323 | 11.64 | 2.06 | 568 | 12.79 | 0.76 |
| 79 | 10.75 | 2.10 | 324 | 11.34 | 1.43 | 569 | 12.89 | 0.70 |
| 80 | 13.03 | -0.04 | 325 | 8.42 | 1.50 | 570 | 12.50 | 0.85 |

Table 4. (continued)

| No | V | B-V | No | V | B-V | No | V | B-V |
|-----|-------|------|-----|-------|------|-----|-------|-------|
| 81 | 12.10 | 1.32 | 326 | 11.59 | 2.34 | 571 | 12.59 | 1.63 |
| 82 | 12.44 | 1.13 | 327 | 12.58 | 1.97 | 572 | 8.33 | 0.67 |
| 83 | 12.17 | 1.67 | 328 | 11.15 | 1.55 | 573 | 11.72 | 1.12 |
| 84 | 10.52 | 2.27 | 329 | 12.15 | 1.71 | 574 | 8.99 | 0.67 |
| 85 | 12.81 | 0.77 | 330 | 12.39 | 1.04 | 575 | 12.52 | 0.73 |
| 86 | 13.16 | 0.65 | 331 | 12.19 | 2.22 | 576 | 12.19 | 0.98 |
| 87 | 11.25 | 1.31 | 332 | 12.51 | 1.65 | 577 | 10.66 | 2.07 |
| 88 | 12.39 | 0.91 | 333 | 11.43 | 1.78 | 578 | 11.52 | 1.27 |
| 89 | 11.68 | 1.44 | 334 | 11.96 | 0.90 | 579 | 11.91 | 0.84 |
| 90 | 12.09 | 1.18 | 335 | 10.38 | 1.68 | 580 | 13.00 | 1.26 |
| 91 | 12.85 | 0.43 | 336 | 11.84 | 0.55 | 581 | 10.87 | 1.05 |
| 92 | 12.20 | 0.51 | 337 | 11.50 | 0.78 | 582 | 12.25 | 0.59 |
| 93 | 12.45 | 1.52 | 338 | 12.17 | 1.05 | 583 | 12.76 | 1.61 |
| 94 | 12.19 | 1.03 | 339 | 12.60 | 1.56 | 584 | 12.00 | 1.43 |
| 95 | 9.70 | 1.25 | 340 | 12.61 | 1.97 | 585 | 12.02 | 1.18 |
| 96 | 12.45 | 0.60 | 341 | 10.63 | 1.43 | 586 | 11.36 | 1.21 |
| 97 | 12.50 | 0.28 | 342 | 12.20 | 1.29 | 587 | 12.79 | 1.16 |
| 98 | 12.82 | 0.50 | 343 | 11.01 | 1.42 | 588 | 13.12 | 1.85 |
| 99 | 11.52 | 1.93 | 344 | 12.17 | 2.16 | 589 | 10.85 | 1.08 |
| 100 | 12.70 | 1.40 | 345 | 12.42 | 1.13 | 590 | 12.38 | 0.62 |
| 101 | 12.50 | 0.50 | 346 | 11.98 | 1.50 | 591 | 13.01 | 0.92 |
| 102 | 10.04 | 1.36 | 347 | 12.25 | 1.85 | 592 | 10.45 | 0.51 |
| 103 | 10.57 | 2.11 | 348 | 12.76 | 1.74 | 593 | 11.84 | 0.53 |
| 104 | 12.54 | 1.69 | 349 | 13.07 | 1.55 | 594 | 12.61 | 0.82 |
| 105 | 11.77 | 1.56 | 350 | 11.54 | 0.90 | 595 | 11.71 | 0.26 |
| 106 | 11.57 | 1.83 | 351 | 12.62 | 1.01 | 596 | 11.63 | 0.67 |
| 107 | 12.48 | 1.79 | 352 | 11.52 | 0.94 | 597 | 11.15 | 0.39 |
| 108 | 11.62 | 1.35 | 353 | 12.11 | 2.02 | 598 | 12.46 | 0.77 |
| 109 | 12.68 | 0.78 | 354 | 11.79 | 1.60 | 599 | 9.67 | 2.27 |
| 110 | 9.54 | 1.56 | 355 | 12.84 | 1.36 | 600 | 13.24 | 0.93 |
| 111 | 11.63 | 2.13 | 356 | 12.75 | 1.59 | 601 | 12.42 | 2.32 |
| 112 | 12.48 | 1.61 | 357 | 11.22 | 1.15 | 602 | 12.74 | 1.32 |
| 113 | 12.03 | 1.05 | 358 | 11.57 | 2.06 | 603 | 12.93 | 1.13 |
| 114 | 11.15 | 0.35 | 359 | 11.32 | 1.19 | 604 | 12.35 | 0.39 |
| 115 | 11.43 | 0.90 | 360 | 11.06 | 2.07 | 605 | 12.16 | 1.92 |
| 116 | 12.74 | 1.53 | 361 | 12.19 | 1.70 | 606 | 13.18 | 1.08 |
| 117 | 12.30 | 1.57 | 362 | 10.51 | 0.50 | 607 | 12.48 | 1.75 |
| 118 | 10.61 | 1.55 | 363 | 9.59 | 1.72 | 608 | 12.44 | 2.01 |
| 119 | 12.02 | 2.17 | 364 | 12.76 | 0.66 | 609 | 10.59 | 0.89 |
| 120 | 13.05 | 1.68 | 365 | 12.26 | 0.87 | 610 | 11.99 | 0.24 |
| 121 | 11.49 | 0.79 | 366 | 12.73 | 0.76 | 611 | 12.89 | 1.81 |
| 122 | 10.64 | 0.57 | 367 | 12.61 | 0.65 | 612 | 12.40 | 0.87 |
| 123 | 11.56 | 1.92 | 368 | 12.60 | 0.68 | 613 | 12.24 | 0.48 |
| 124 | 10.98 | 1.62 | 369 | 12.72 | 0.70 | 614 | 11.43 | 2.51 |
| 125 | 8.26 | 0.47 | 370 | 11.31 | 2.10 | 615 | 11.67 | 1.39 |
| 126 | 12.74 | 2.19 | 371 | 12.00 | 2.35 | 616 | 12.47 | 1.27 |
| 127 | 12.07 | 1.02 | 372 | 10.68 | 2.39 | 617 | 11.60 | 1.21 |
| 128 | 7.73 | 0.86 | 373 | 10.97 | 1.17 | 618 | 11.33 | 1.29 |
| 129 | 12.14 | 1.82 | 374 | 11.58 | 0.45 | 619 | 11.01 | -0.29 |
| 130 | 10.59 | 2.08 | 375 | 12.08 | 1.82 | 620 | 11.99 | 1.06 |
| 131 | 11.54 | 1.16 | 376 | 11.96 | 2.30 | 621 | 12.93 | 0.73 |
| 132 | 12.34 | 1.78 | 377 | 11.09 | 1.98 | 622 | 12.68 | 0.54 |
| 133 | 10.01 | 1.73 | 378 | 12.95 | 0.88 | 623 | 12.49 | 1.00 |
| 134 | 12.05 | 1.81 | 379 | 12.68 | 0.92 | 624 | 11.76 | 1.77 |
| 135 | 11.08 | 1.77 | 380 | 12.15 | 0.98 | 625 | 12.44 | 0.86 |

Table 4. (continued)

| No | V | B-V | No | V | B-V | No | V | B-V |
|-----|-------|-------|-----|-------|------|-----|-------|-------|
| 136 | 12.06 | 0.79 | 381 | 12.42 | 1.18 | 626 | 12.63 | 1.97 |
| 137 | 7.60 | 1.31 | 382 | 11.52 | - | 627 | 12.42 | 0.74 |
| 138 | 11.81 | 1.72 | 383 | 12.22 | 0.91 | 628 | 12.01 | -0.32 |
| 139 | 11.11 | 1.60 | 384 | 11.39 | 2.50 | 629 | 11.41 | 1.65 |
| 140 | 11.97 | 1.55 | 385 | 12.11 | 1.04 | 630 | 12.47 | 0.45 |
| 141 | 11.71 | 0.70 | 386 | 10.12 | 2.52 | 631 | 11.88 | 0.24 |
| 142 | 10.71 | 1.97 | 387 | 10.45 | 1.62 | 632 | 12.77 | 0.83 |
| 143 | 11.93 | 1.09 | 388 | 12.66 | 1.44 | 633 | 10.95 | 1.32 |
| 144 | 11.94 | 1.57 | 389 | 12.64 | 1.93 | 634 | 11.11 | 0.83 |
| 145 | 12.20 | 0.75 | 390 | 12.45 | 1.35 | 635 | 11.41 | 1.83 |
| 146 | 10.95 | 2.06 | 391 | 10.47 | 1.16 | 636 | 12.43 | 1.78 |
| 147 | 10.82 | 1.92 | 392 | 12.06 | 2.12 | 637 | 12.23 | 0.52 |
| 148 | 11.68 | 0.72 | 393 | 11.23 | 1.14 | 638 | 12.37 | 1.66 |
| 149 | 12.00 | -0.04 | 394 | 11.89 | 1.33 | 639 | 12.44 | 0.44 |
| 150 | 12.53 | 1.78 | 395 | 11.30 | 0.54 | 640 | 12.70 | 1.96 |
| 151 | 11.03 | 2.15 | 396 | 12.58 | 1.19 | 641 | 10.93 | 1.17 |
| 152 | 12.83 | 1.72 | 397 | 12.07 | 0.73 | 642 | 11.90 | 0.88 |
| 153 | 11.92 | 0.96 | 398 | 12.72 | 0.81 | 643 | 12.94 | 1.11 |
| 154 | 12.49 | 1.70 | 399 | 12.18 | 2.37 | 644 | 12.71 | 1.20 |
| 155 | 12.60 | 0.61 | 400 | 10.41 | 2.00 | 645 | 12.88 | 1.54 |
| 156 | 12.80 | 0.49 | 401 | 12.05 | 1.98 | 646 | 12.66 | 1.17 |
| 157 | 12.01 | 0.59 | 402 | 13.16 | 1.18 | 647 | 9.90 | 2.35 |
| 158 | 10.42 | 2.00 | 403 | 12.59 | 1.23 | 648 | 12.31 | 0.34 |
| 159 | 11.08 | 1.89 | 404 | 10.60 | 1.29 | 649 | 12.57 | 0.92 |
| 160 | 12.11 | 1.79 | 405 | 9.30 | 1.47 | 650 | 8.75 | 1.95 |
| 161 | 12.06 | 2.15 | 406 | 12.50 | 0.84 | 651 | 11.08 | 1.41 |
| 162 | 12.18 | 1.78 | 407 | 12.71 | 0.82 | 652 | 12.33 | 0.62 |
| 163 | 9.61 | 1.07 | 408 | 8.08 | 1.22 | 653 | 12.35 | 0.57 |
| 164 | 12.71 | 0.32 | 409 | 10.42 | 0.57 | 654 | 11.58 | 1.24 |
| 165 | 12.39 | 1.53 | 410 | 11.70 | 0.51 | 655 | 13.00 | 0.31 |
| 166 | 8.55 | 1.26 | 411 | 11.30 | 0.69 | 656 | 12.34 | 1.86 |
| 167 | 11.46 | 0.66 | 412 | 12.11 | 1.28 | 657 | 12.70 | 0.65 |
| 168 | 12.30 | 0.89 | 413 | 12.47 | 0.68 | 658 | 12.49 | 2.00 |
| 169 | 11.47 | 0.66 | 414 | 12.88 | 1.17 | 659 | 10.30 | 1.18 |
| 170 | 9.39 | 2.23 | 415 | 12.47 | 1.06 | 660 | 12.11 | 1.36 |
| 171 | 12.33 | 1.03 | 416 | 12.85 | 1.18 | 661 | 11.71 | 0.77 |
| 172 | 12.02 | 1.44 | 417 | 10.17 | 1.58 | 662 | 12.88 | 0.27 |
| 173 | 13.26 | 0.81 | 418 | 11.71 | 2.09 | 663 | 12.73 | 0.32 |
| 174 | 11.54 | 0.65 | 419 | 12.75 | 1.67 | 664 | 12.85 | 2.05 |
| 175 | 12.08 | 0.84 | 420 | 13.11 | 0.95 | 665 | 13.11 | 0.92 |
| 176 | 12.58 | 1.06 | 421 | 11.37 | 1.34 | 666 | 11.02 | 1.53 |
| 177 | 11.05 | 0.85 | 422 | 12.10 | 0.95 | 667 | 11.15 | 1.09 |
| 178 | 11.69 | 1.49 | 423 | 12.13 | 0.21 | 668 | 11.73 | 1.41 |
| 179 | 12.08 | 2.30 | 424 | 11.46 | 1.22 | 669 | 10.67 | 0.87 |
| 180 | 12.47 | 1.53 | 425 | 13.37 | 0.71 | 670 | 12.20 | 1.07 |
| 181 | 12.69 | 1.66 | 426 | 11.63 | 0.71 | 671 | 12.60 | 0.61 |
| 182 | 12.63 | 0.97 | 427 | 10.50 | 1.03 | 672 | 12.62 | 0.29 |
| 183 | 11.26 | 1.39 | 428 | 11.65 | 2.06 | 673 | 12.39 | 1.28 |
| 184 | 11.84 | 0.93 | 429 | 12.13 | 0.49 | 674 | 11.49 | 2.25 |
| 185 | 12.31 | 1.97 | 430 | 13.06 | 0.50 | 675 | 12.54 | 0.42 |
| 186 | 12.40 | 0.91 | 431 | 12.89 | 1.20 | 676 | 11.93 | 2.43 |
| 187 | 12.26 | 0.86 | 432 | 12.48 | 1.31 | 677 | 11.13 | 1.50 |
| 188 | 12.13 | 1.92 | 433 | 12.61 | 1.20 | 678 | 12.43 | 0.18 |
| 189 | 11.31 | 0.97 | 434 | 12.48 | 0.65 | 679 | 11.15 | 2.22 |
| 190 | 12.49 | 1.55 | 435 | 11.52 | 1.17 | 680 | 11.81 | 1.59 |

Table 4. (continued)

| No | V | B-V | No | V | B-V | No | V | B-V |
|-----|-------|------|-----|-------|------|-----|-------|------|
| 191 | 11.96 | 1.55 | 436 | 12.19 | 1.07 | 681 | 12.39 | 1.00 |
| 192 | 12.16 | 1.24 | 437 | 12.99 | 0.86 | 682 | 12.62 | 0.56 |
| 193 | 12.16 | 1.36 | 438 | 12.32 | 1.42 | 683 | 10.48 | 1.55 |
| 194 | 12.10 | 1.41 | 439 | 12.53 | 1.19 | 684 | 11.94 | 1.51 |
| 195 | 12.37 | 0.85 | 440 | 12.71 | 0.77 | 685 | 10.64 | 1.26 |
| 196 | 12.40 | 0.45 | 441 | 12.98 | 1.27 | 686 | 12.54 | 1.10 |
| 197 | 12.21 | 0.55 | 442 | 12.68 | 1.32 | 687 | 11.56 | 0.96 |
| 198 | 10.98 | 1.45 | 443 | 8.93 | 1.55 | 688 | 12.28 | 0.85 |
| 199 | 12.57 | 0.65 | 444 | 11.54 | 1.18 | 689 | 12.92 | 1.47 |
| 200 | 13.31 | 0.61 | 445 | 12.12 | 0.63 | 690 | 12.50 | 0.95 |
| 201 | 12.66 | 0.41 | 446 | 12.85 | 1.69 | 691 | 11.75 | 1.87 |
| 202 | 11.56 | 0.96 | 447 | 13.02 | 0.55 | 692 | 12.31 | 0.53 |
| 203 | 12.82 | 1.23 | 448 | 12.56 | 2.08 | 693 | 12.13 | 0.90 |
| 204 | 11.73 | 1.86 | 449 | 10.46 | 0.73 | 694 | 12.01 | 0.71 |
| 205 | 10.39 | 0.19 | 450 | 11.82 | 0.61 | 695 | 12.24 | 1.53 |
| 206 | 11.60 | 0.62 | 451 | 12.10 | 1.81 | 696 | 12.37 | 0.84 |
| 207 | 12.29 | 1.25 | 452 | 11.20 | 0.69 | 697 | 12.09 | 1.64 |
| 208 | 7.97 | 1.44 | 453 | 10.80 | 0.58 | 698 | 12.13 | 0.59 |
| 209 | 11.00 | 0.41 | 454 | 12.67 | 0.84 | 699 | 12.12 | 1.70 |
| 210 | 10.55 | 1.09 | 455 | 12.79 | 0.47 | 700 | 10.27 | 1.96 |
| 211 | 12.05 | 0.75 | 456 | 12.67 | 0.88 | 701 | 12.08 | 0.24 |
| 212 | 11.50 | 1.82 | 457 | 12.94 | 0.51 | 702 | 12.05 | 2.03 |
| 213 | 12.26 | 1.17 | 458 | 10.12 | 1.36 | 703 | 11.73 | 0.69 |
| 214 | 11.59 | 0.86 | 459 | 11.21 | 1.25 | 704 | 10.74 | 2.22 |
| 215 | 12.45 | 1.88 | 460 | 11.33 | 1.19 | 705 | 12.41 | 0.65 |
| 216 | 10.99 | 2.56 | 461 | 12.56 | 0.99 | 706 | 12.16 | 1.52 |
| 217 | 11.73 | 0.92 | 462 | 12.66 | 0.10 | 707 | 10.05 | 2.78 |
| 218 | 11.82 | 0.92 | 463 | 12.51 | 1.42 | 708 | 10.54 | 2.18 |
| 219 | 10.97 | 1.44 | 464 | 12.67 | 1.19 | 709 | 10.32 | 1.72 |
| 220 | 12.67 | 0.86 | 465 | 13.06 | 0.44 | 710 | 8.65 | 2.49 |
| 221 | 11.84 | 0.59 | 466 | 12.13 | 2.16 | 711 | 11.33 | 2.18 |
| 222 | 12.63 | 1.42 | 467 | 11.38 | 2.04 | 712 | 12.41 | 1.31 |
| 223 | 11.56 | 2.12 | 468 | 11.46 | 2.01 | 713 | 12.46 | 1.76 |
| 224 | 11.47 | 2.23 | 469 | 12.77 | 1.54 | 714 | 12.12 | 0.99 |
| 225 | 10.71 | 2.34 | 470 | 13.12 | 0.89 | 715 | 12.19 | 0.88 |
| 226 | 12.56 | 1.28 | 471 | 11.79 | 0.52 | 716 | 12.58 | 1.27 |
| 227 | 12.90 | 0.54 | 472 | 12.58 | 0.46 | 717 | 12.44 | 0.84 |
| 228 | 12.39 | 0.85 | 473 | 12.89 | 0.61 | 718 | 12.22 | 0.57 |
| 229 | 9.83 | 2.06 | 474 | 10.94 | 1.03 | 719 | 11.08 | 1.98 |
| 230 | 12.30 | 1.15 | 475 | 12.84 | 1.55 | 720 | 12.66 | 0.91 |
| 231 | 12.52 | 0.29 | 476 | 12.39 | 2.06 | 721 | 12.26 | 0.23 |
| 232 | 12.22 | 1.77 | 477 | 12.71 | 0.62 | 722 | 12.76 | 1.59 |
| 233 | 12.53 | 0.92 | 478 | 11.51 | 1.04 | 723 | 12.37 | 1.31 |
| 234 | 12.44 | 1.26 | 479 | 12.55 | 0.47 | 724 | 11.52 | 1.82 |
| 235 | 8.45 | 2.18 | 480 | 12.32 | 0.47 | 725 | 11.40 | 1.55 |
| 236 | 9.89 | 1.74 | 481 | 10.77 | 2.17 | 726 | 12.20 | 1.93 |
| 237 | 11.49 | 0.85 | 482 | 11.38 | 1.45 | 727 | 12.08 | 0.83 |
| 238 | 11.61 | 1.01 | 483 | 11.97 | 0.40 | 728 | 11.73 | 1.30 |
| 239 | 12.78 | 0.63 | 484 | 12.13 | 0.85 | 729 | 11.36 | 1.73 |
| 240 | 10.76 | 1.80 | 485 | 10.44 | 1.92 | 730 | 12.80 | 0.40 |
| 241 | 12.42 | 1.72 | 486 | 12.32 | 0.73 | 731 | 11.58 | 2.15 |
| 242 | 12.96 | 0.22 | 487 | 11.01 | 1.37 | | | |
| 243 | 11.23 | 1.85 | 488 | 10.36 | 1.23 | | | |
| 244 | 12.26 | 0.59 | 489 | 10.63 | 1.63 | | | |
| 245 | 10.82 | 2.12 | 490 | 12.22 | 1.35 | | | |

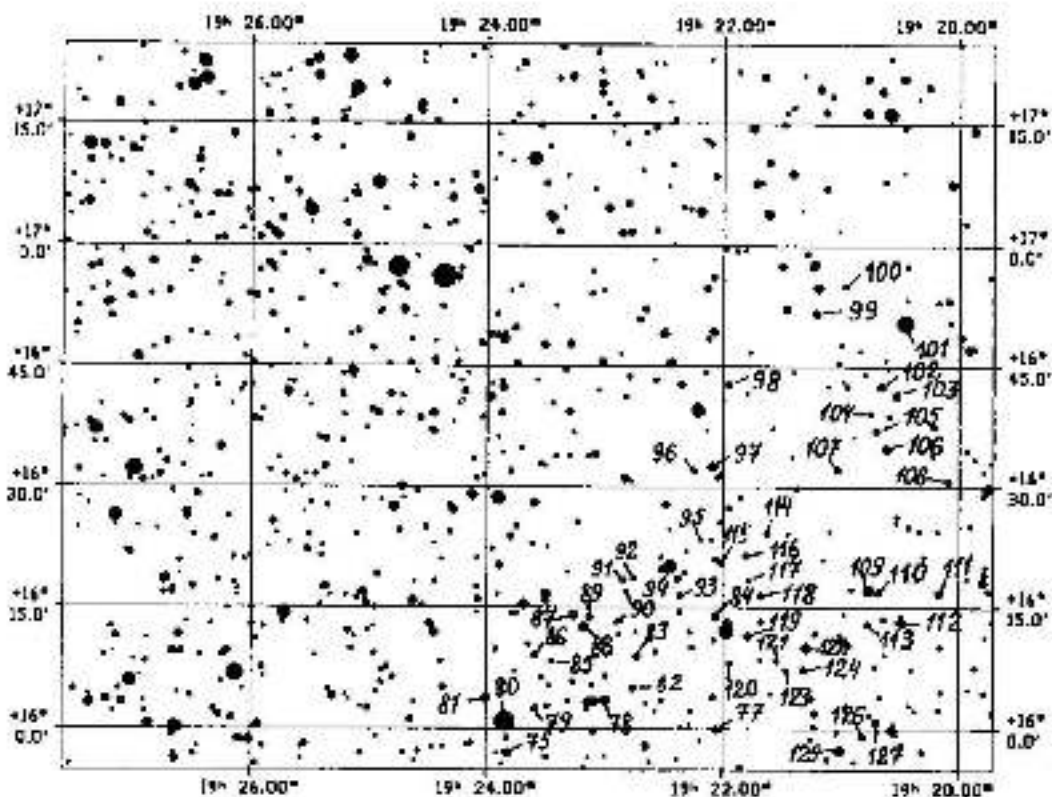


Fig. 29: KA-87, fragment 1

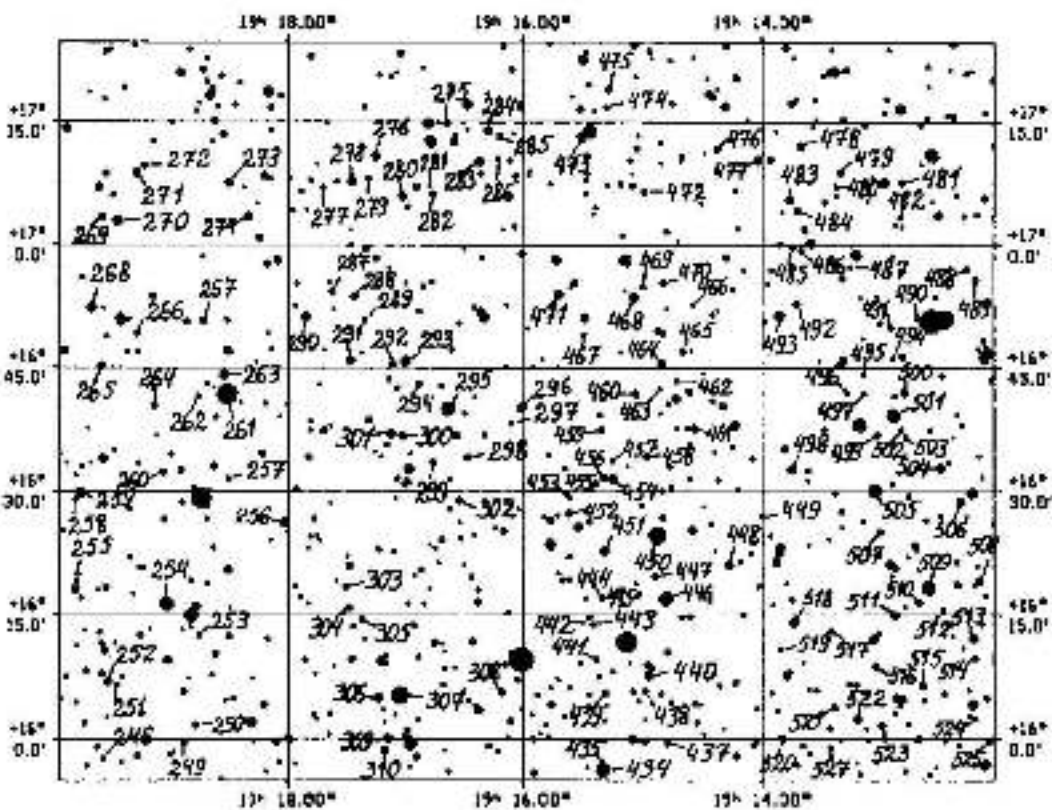


Fig. 30: KA-87, fragment 2

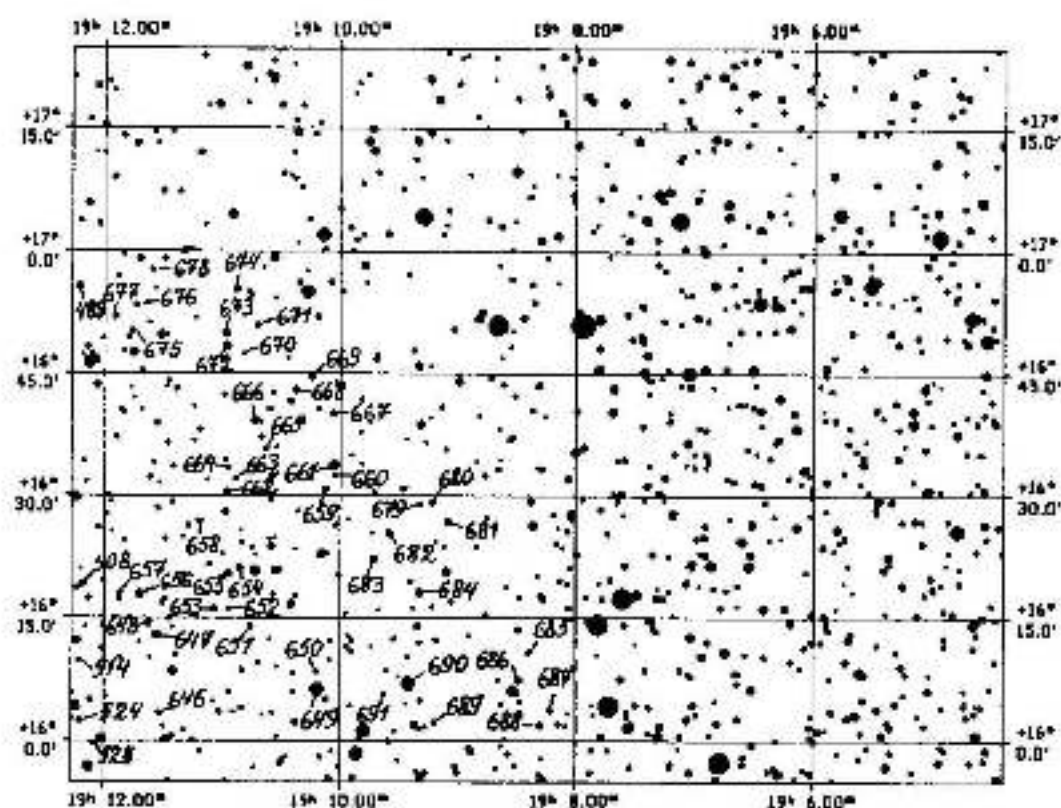


Fig. 31. KA-87, fragment 3

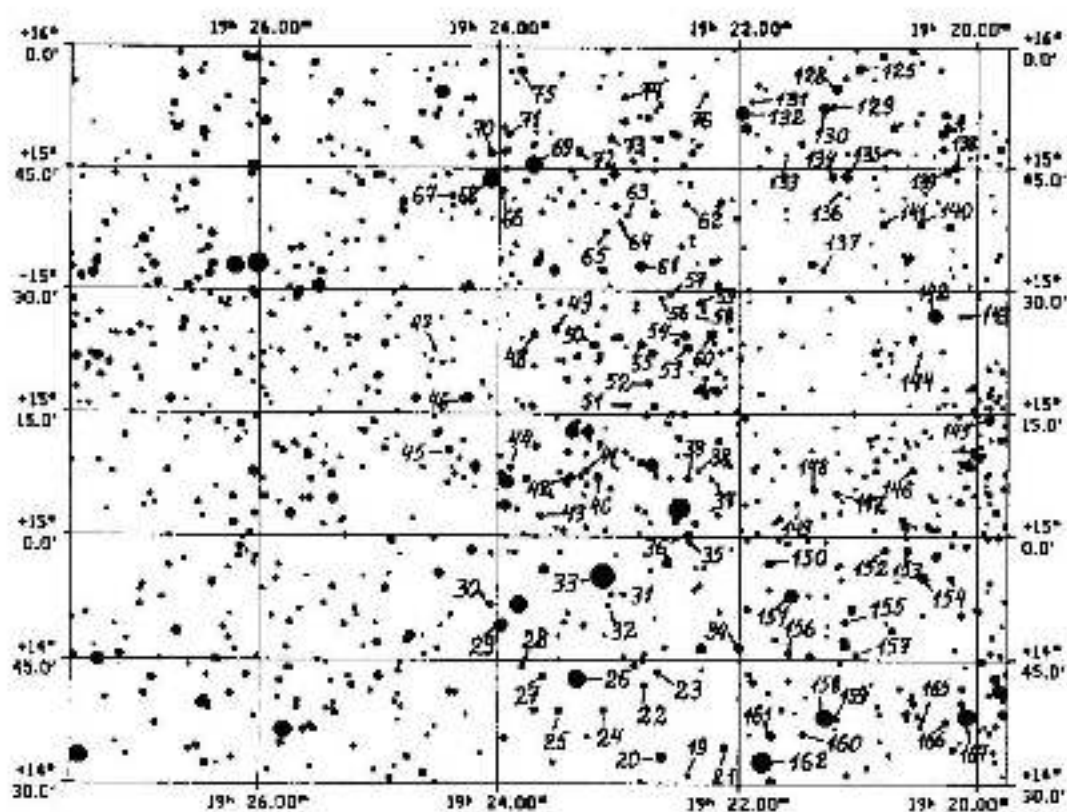


Fig. 32. KA-87, fragment 1

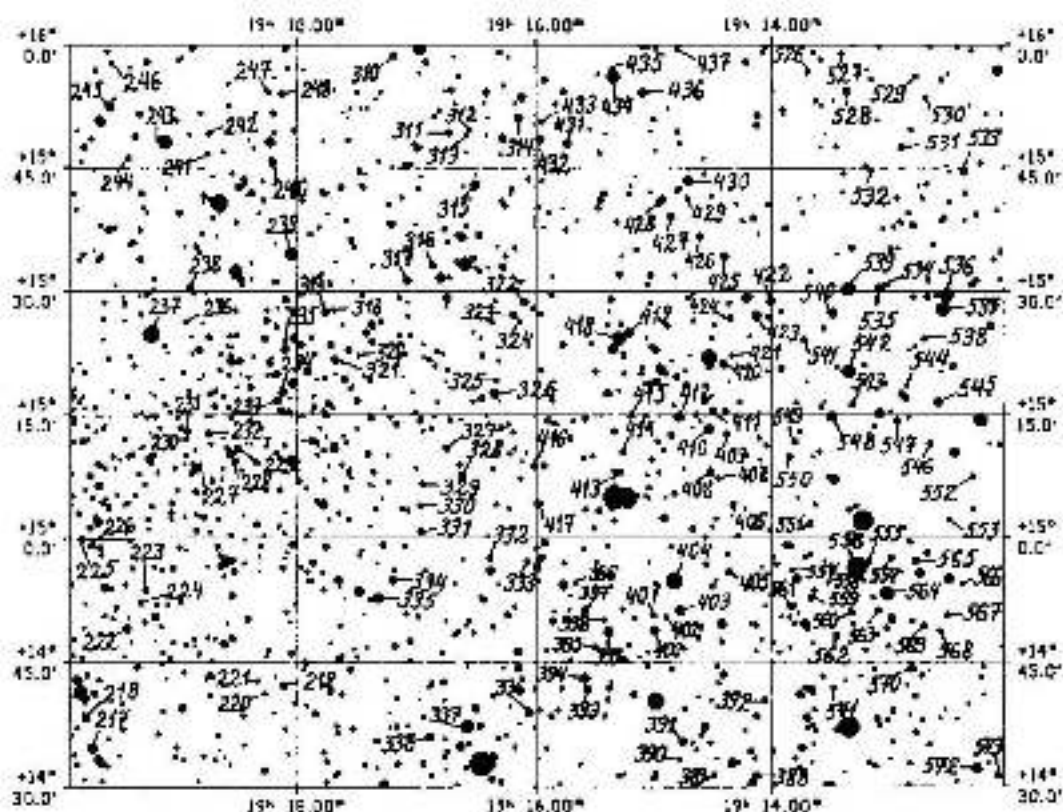


Fig. 53. KA-87, fragment 53

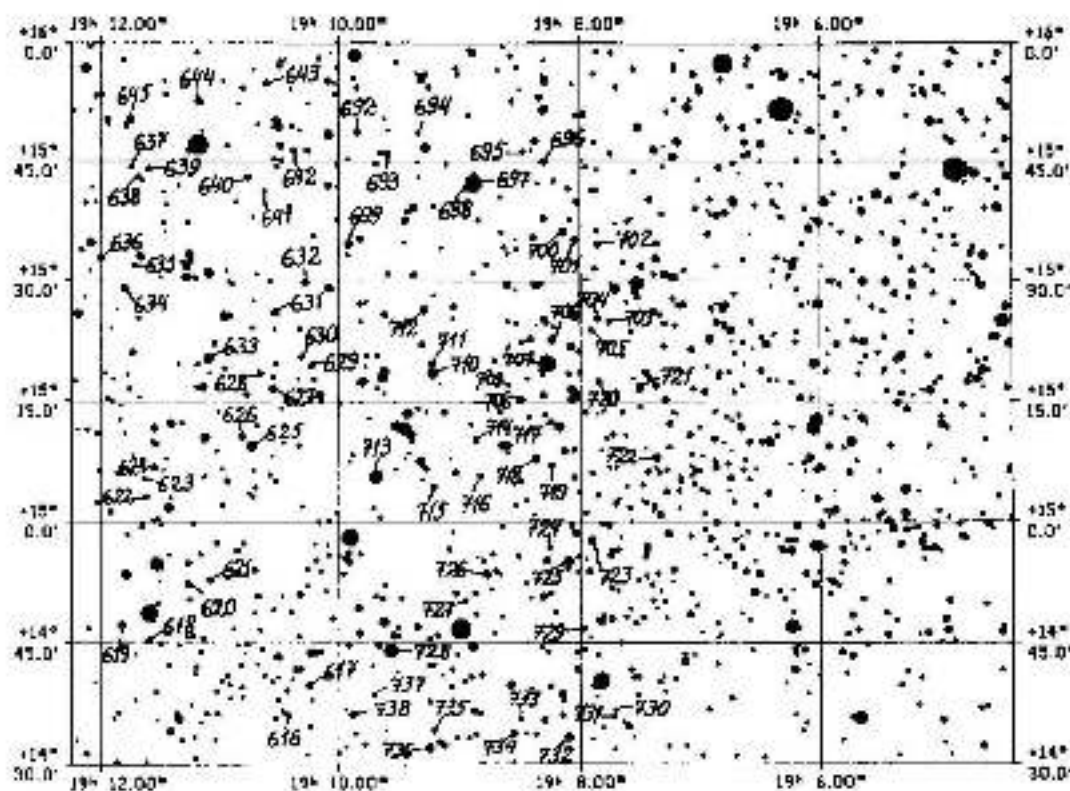


Fig. 54. KA-87, fragment 54

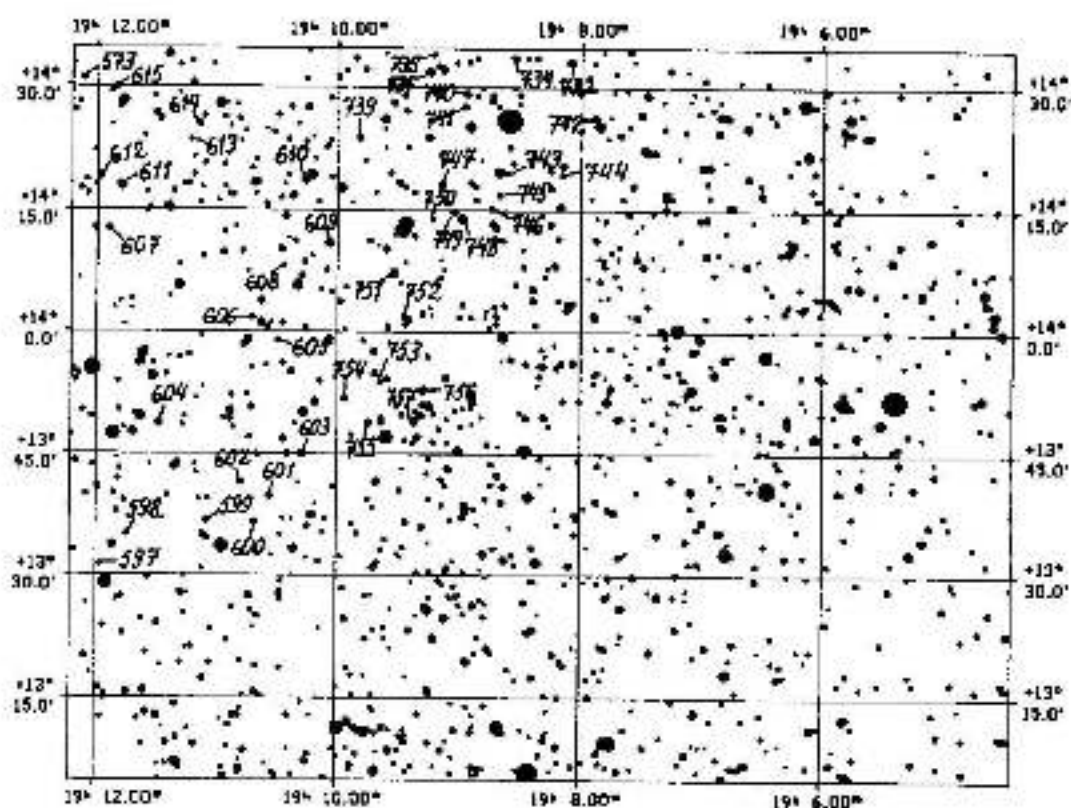


Fig. 37: KA-87, fragment 9

Table 5. Kapteyn Area KA-87: magnitudes and color indices of stars

| No | V | B-V | No | V | B-V | No | V | B-V |
|----|-------|-------|-----|-------|------|-----|-------|------|
| 1 | 11.99 | 0.60 | 254 | 9.02 | 1.07 | 507 | 11.63 | 2.00 |
| 2 | 12.90 | - | 255 | 13.01 | 0.79 | 508 | 11.93 | 0.65 |
| 3 | 11.86 | 0.34 | 256 | 10.35 | 1.73 | 509 | 9.15 | 0.39 |
| 4 | 9.08 | -0.62 | 257 | 9.81 | 1.08 | 510 | 12.06 | 0.45 |
| 5 | 10.32 | 2.31 | 258 | 13.49 | 0.82 | 511 | 10.65 | 0.84 |
| 6 | 9.65 | 1.29 | 259 | 10.22 | 0.56 | 512 | 12.98 | 1.07 |
| 7 | 9.27 | -0.43 | 260 | 11.89 | 2.56 | 513 | 11.16 | 1.30 |
| 8 | 10.43 | -0.53 | 261 | 7.40 | 0.22 | 514 | 12.94 | 0.67 |
| 9 | 11.23 | 0.37 | 262 | 13.03 | 0.95 | 515 | 11.95 | 1.63 |
| 10 | 11.57 | 3.10 | 263 | 9.58 | 0.49 | 516 | 12.18 | 1.26 |
| 11 | 9.87 | 2.03 | 264 | 11.76 | 0.99 | 517 | 12.38 | 1.57 |
| 12 | 12.56 | - | 265 | 12.41 | 1.06 | 518 | 10.88 | 0.56 |
| 13 | 9.76 | -0.39 | 266 | 12.49 | 1.32 | 519 | 12.94 | 0.53 |
| 14 | 12.61 | 0.52 | 267 | 11.45 | 1.01 | 520 | 12.15 | 0.46 |
| 15 | 13.04 | 1.22 | 268 | 9.93 | 0.33 | 521 | 11.67 | 0.93 |
| 16 | 12.45 | - | 269 | 11.72 | 0.69 | 522 | 11.69 | 0.63 |
| 17 | 11.18 | 3.50 | 270 | 10.36 | 1.91 | 523 | 12.46 | 0.47 |
| 18 | 11.26 | 1.88 | 271 | 10.40 | 0.19 | 524 | 12.77 | 0.91 |
| 19 | 12.71 | 3.92 | 272 | 12.14 | 1.49 | 525 | 12.79 | 0.65 |
| 20 | 9.54 | -2.06 | 273 | 11.85 | 1.50 | 526 | 12.82 | 0.72 |
| 21 | 11.53 | 0.74 | 274 | 11.67 | 1.33 | 527 | 13.08 | 0.85 |
| 22 | 12.53 | 1.94 | 275 | 12.03 | 0.61 | 528 | 10.55 | 1.81 |
| 23 | 12.09 | 0.92 | 276 | 11.17 | 0.08 | 529 | 12.54 | 0.89 |
| 24 | 12.49 | 0.98 | 277 | 12.66 | 1.58 | 530 | 12.60 | - |
| 25 | 12.57 | - | 278 | 11.01 | 1.90 | 531 | 12.64 | 0.89 |

Table 5. (continued)

| No | V | B-V | No | V | B-V | No | V | B-V |
|----|-------|-------|-----|-------|------|-----|-------|-------|
| 26 | 8.23 | -0.36 | 279 | 13.06 | 1.15 | 532 | 12.64 | 0.62 |
| 27 | 12.20 | 0.32 | 280 | 10.95 | 0.83 | 533 | 11.51 | 1.51 |
| 28 | 13.42 | - | 281 | 13.72 | 0.97 | 534 | 11.73 | 0.20 |
| 29 | 8.88 | 0.02 | 282 | 12.40 | 0.47 | 535 | 10.98 | 0.95 |
| 30 | 11.79 | 0.59 | 283 | 11.53 | 2.57 | 536 | 8.75 | 0.43 |
| 31 | 12.82 | 0.89 | 284 | 11.04 | 0.25 | 537 | 8.82 | 0.36 |
| 32 | 13.16 | 1.83 | 285 | 12.78 | 0.46 | 538 | 12.83 | 0.90 |
| 33 | 6.36 | -0.58 | 286 | 12.73 | 1.38 | 539 | 9.50 | 0.61 |
| 34 | 10.40 | 0.79 | 287 | 12.27 | 0.88 | 540 | 10.52 | 1.80 |
| 35 | 12.84 | 0.87 | 288 | 11.97 | 0.67 | 541 | 12.97 | 1.71 |
| 36 | 11.11 | 0.71 | 289 | 12.97 | 1.10 | 542 | 9.69 | 0.83 |
| 37 | 13.25 | 1.17 | 290 | 11.35 | 2.74 | 543 | 11.90 | 0.44 |
| 38 | 12.70 | 2.11 | 291 | 11.42 | 1.78 | 544 | 13.33 | - |
| 39 | 12.62 | 1.89 | 292 | 13.02 | - | 545 | 11.35 | 0.51 |
| 40 | 10.87 | 1.73 | 293 | 9.89 | 0.39 | 546 | 12.84 | 1.04 |
| 41 | 12.07 | 1.87 | 294 | 11.95 | 0.40 | 547 | 12.39 | 0.53 |
| 42 | 10.94 | 0.63 | 295 | 8.96 | 0.89 | 548 | 10.09 | 0.25 |
| 43 | 11.98 | 2.22 | 296 | 10.58 | 0.95 | 549 | 12.57 | 1.85 |
| 44 | 11.79 | 0.52 | 297 | 12.37 | 1.01 | 550 | 12.85 | 0.55 |
| 45 | 11.64 | 0.94 | 298 | 12.19 | 2.07 | 551 | 12.41 | 0.62 |
| 46 | 12.67 | 1.43 | 299 | 11.66 | 0.42 | 552 | 12.59 | 1.41 |
| 47 | 13.07 | 1.13 | 300 | 11.52 | 0.60 | 553 | 13.07 | 0.70 |
| 48 | 11.14 | 1.41 | 301 | 11.37 | 0.70 | 554 | 12.92 | - |
| 49 | 11.29 | 0.06 | 302 | 11.49 | 0.59 | 555 | 11.81 | 0.78 |
| 50 | 10.45 | -0.05 | 303 | 11.89 | 0.52 | 556 | 7.26 | 1.40 |
| 51 | 12.43 | 2.35 | 304 | 12.13 | 0.14 | 557 | 13.04 | 0.89 |
| 52 | 12.55 | 0.67 | 305 | 12.95 | 0.82 | 558 | 12.86 | - |
| 53 | 10.98 | 0.10 | 306 | 10.88 | 0.60 | 559 | 12.60 | - |
| 54 | 11.28 | 2.44 | 307 | 8.18 | 0.14 | 560 | 12.12 | 0.35 |
| 55 | 11.04 | 2.04 | 308 | 12.27 | 2.39 | 561 | 11.04 | -0.30 |
| 56 | 13.26 | 0.46 | 309 | 10.94 | 0.66 | 562 | 11.69 | 0.72 |
| 57 | 13.00 | 0.66 | 310 | 11.49 | 0.68 | 563 | 11.87 | 0.44 |
| 58 | 13.74 | 0.77 | 311 | 12.82 | - | 564 | 9.65 | 1.08 |
| 59 | 12.05 | 2.38 | 312 | 12.88 | 0.53 | 565 | 11.97 | 0.03 |
| 60 | 11.24 | 2.19 | 313 | 13.22 | 1.96 | 566 | 13.22 | 0.87 |
| 61 | 10.55 | 2.00 | 314 | 11.12 | 0.61 | 567 | 13.07 | - |
| 62 | 12.97 | 0.46 | 315 | 10.45 | 0.61 | 568 | 13.19 | 0.95 |
| 63 | 12.48 | 0.75 | 316 | 12.38 | 2.16 | 569 | 12.08 | 0.86 |
| 64 | 13.12 | 1.19 | 317 | 10.77 | 0.72 | 570 | 11.20 | 1.91 |
| 65 | 11.96 | 1.85 | 318 | 13.23 | - | 571 | 12.93 | - |
| 66 | 11.71 | 0.20 | 319 | 10.99 | 0.62 | 572 | 10.00 | 2.17 |
| 67 | 12.40 | 0.46 | 320 | 13.01 | 1.04 | 573 | 11.98 | 1.25 |
| 68 | 8.27 | -0.16 | 321 | 11.26 | 0.60 | 574 | 13.05 | 1.77 |
| 69 | 8.39 | 1.47 | 322 | 12.00 | 1.69 | 575 | 12.39 | 0.27 |
| 70 | 11.05 | 0.64 | 323 | 12.38 | 0.55 | 576 | 11.63 | 0.51 |
| 71 | 12.37 | 0.77 | 324 | 13.20 | 1.03 | 577 | 11.68 | 2.14 |
| 72 | 10.98 | 0.65 | 325 | 13.32 | 1.73 | 578 | 12.00 | 1.76 |
| 73 | 11.80 | 2.71 | 326 | 10.26 | 0.33 | 579 | 12.98 | 1.14 |
| 74 | 12.22 | 0.66 | 327 | 11.98 | 2.18 | 580 | 10.46 | 2.52 |
| 75 | 11.08 | 2.46 | 328 | 10.66 | 0.34 | 581 | 13.17 | 1.27 |
| 76 | 12.02 | 2.28 | 329 | 12.61 | 0.90 | 582 | 12.95 | 0.71 |
| 77 | 11.62 | 0.41 | 330 | 12.60 | - | 583 | 12.75 | 0.96 |
| 78 | 9.58 | -0.01 | 331 | 10.54 | 0.77 | 584 | 12.17 | 2.17 |
| 79 | 12.73 | - | 332 | 12.18 | 0.25 | 585 | 11.23 | 2.56 |
| 80 | 7.60 | -0.06 | 333 | 12.54 | 0.86 | 586 | 13.41 | 0.78 |
| 81 | 10.82 | 1.40 | 334 | 11.03 | 0.16 | 587 | 13.14 | 0.62 |
| 82 | 12.41 | - | 335 | 10.40 | 1.63 | 588 | 12.44 | 0.34 |
| 83 | 12.57 | - | 336 | 11.33 | 1.44 | 589 | 11.30 | 2.31 |

Table 5. (continued)

| No | V | B-V | No | V | B-V | No | V | B-V |
|-----|-------|-------|-----|-------|-------|-----|-------|------|
| 84 | 10.97 | 2.94 | 337 | 8.66 | -0.03 | 590 | 13.16 | 1.54 |
| 85 | 13.07 | 1.00 | 338 | 11.27 | 0.06 | 591 | 12.83 | 1.07 |
| 86 | 12.60 | 0.55 | 339 | 10.60 | 0.59 | 592 | 12.96 | 0.97 |
| 87 | 11.21 | 0.55 | 340 | 12.11 | 0.85 | 593 | 12.71 | 0.80 |
| 88 | 10.60 | 1.42 | 341 | 10.97 | -0.20 | 594 | 12.47 | 0.87 |
| 89 | 12.38 | 2.48 | 342 | 11.62 | 0.70 | 595 | 11.39 | 1.29 |
| 90 | 12.94 | 0.71 | 343 | 12.36 | 0.55 | 596 | 11.11 | 1.98 |
| 91 | 13.07 | 0.73 | 344 | 12.39 | 1.85 | 597 | 13.17 | - |
| 92 | 13.15 | 1.21 | 345 | 9.28 | 2.36 | 598 | 12.56 | 0.59 |
| 93 | 12.44 | 1.51 | 346 | 10.59 | 1.93 | 599 | 12.11 | 0.90 |
| 94 | 9.20 | -0.55 | 347 | 11.22 | 0.65 | 600 | 12.09 | - |
| 95 | 12.76 | 0.89 | 348 | 12.37 | 2.16 | 601 | 12.38 | 0.19 |
| 96 | 12.20 | 0.05 | 349 | 12.73 | 0.99 | 602 | 12.42 | 1.72 |
| 97 | 9.72 | 0.14 | 350 | 12.08 | 1.01 | 603 | 11.38 | 2.30 |
| 98 | 12.46 | 1.78 | 351 | 7.99 | 0.46 | 604 | 11.58 | 2.12 |
| 99 | 10.78 | 0.35 | 352 | 12.51 | 1.09 | 605 | 12.99 | 0.31 |
| 100 | 13.35 | 0.99 | 353 | 10.32 | 3.21 | 606 | 12.01 | 0.65 |
| 101 | 8.58 | 0.11 | 354 | 13.24 | 1.12 | 607 | 12.40 | 0.76 |
| 102 | 10.50 | 0.06 | 355 | 11.41 | 0.78 | 608 | 13.05 | 1.17 |
| 103 | 11.00 | 0.64 | 356 | 12.99 | 1.25 | 609 | 11.33 | 0.02 |
| 104 | 13.44 | 0.77 | 357 | 12.23 | 0.71 | 610 | 12.42 | 0.72 |
| 105 | 12.16 | 0.74 | 358 | 10.39 | 1.32 | 611 | 10.03 | 1.53 |
| 106 | 11.80 | 2.33 | 359 | 12.20 | 1.06 | 612 | 11.71 | 2.37 |
| 107 | 12.43 | 1.02 | 360 | 12.20 | 0.70 | 613 | 13.21 | 0.71 |
| 108 | 11.86 | 0.83 | 361 | 12.35 | 0.49 | 614 | 12.34 | 0.56 |
| 109 | 10.38 | 0.20 | 362 | 12.11 | 0.76 | 615 | 12.40 | 0.78 |
| 110 | 12.25 | 2.14 | 363 | 11.66 | 0.39 | 616 | 12.20 | 0.87 |
| 111 | 10.28 | 0.81 | 364 | 13.24 | - | 617 | 12.34 | 1.86 |
| 112 | 10.65 | 0.45 | 365 | 12.93 | 0.94 | 618 | 12.17 | 1.01 |
| 113 | 12.02 | 1.88 | 366 | 12.10 | 1.01 | 619 | 11.35 | 0.45 |
| 114 | 12.81 | 0.69 | 367 | 11.08 | 1.61 | 620 | 11.94 | 0.79 |
| 115 | 11.71 | 0.60 | 368 | 11.56 | -0.01 | 621 | 12.39 | 0.81 |
| 116 | 12.54 | 0.62 | 369 | 12.59 | 1.21 | 622 | 11.69 | 0.63 |
| 117 | 13.14 | 1.39 | 370 | 11.54 | 1.97 | 623 | 13.29 | 1.16 |
| 118 | 12.35 | 0.73 | 371 | 12.00 | 0.47 | 624 | 12.53 | 0.33 |
| 119 | 11.37 | 0.19 | 372 | 12.60 | 0.41 | 625 | 10.47 | 2.28 |
| 120 | 12.48 | 0.86 | 373 | 11.22 | 0.48 | 626 | 12.00 | 2.49 |
| 121 | 13.06 | 0.96 | 374 | 12.78 | 0.90 | 627 | 11.91 | 2.04 |
| 122 | 10.41 | 2.11 | 375 | 10.30 | 1.58 | 628 | 12.51 | 1.27 |
| 123 | 13.20 | - | 376 | 12.57 | 0.66 | 629 | 12.34 | 1.65 |
| 124 | 12.59 | 0.97 | 377 | 13.00 | 1.96 | 630 | 13.01 | - |
| 125 | 10.21 | 1.51 | 378 | 11.88 | 0.84 | 631 | 11.70 | 0.26 |
| 126 | 11.60 | 1.00 | 379 | 12.52 | 0.79 | 632 | 12.36 | 0.83 |
| 127 | 11.84 | 0.47 | 380 | 11.88 | 0.45 | 633 | 10.11 | 0.36 |
| 128 | 10.16 | 0.64 | 381 | 12.51 | 1.61 | 634 | 11.47 | 1.85 |
| 129 | 11.61 | 0.95 | 382 | 11.51 | 1.36 | 635 | 13.09 | - |
| 130 | 9.52 | 0.14 | 383 | 11.23 | 0.99 | 636 | 12.89 | 0.83 |
| 131 | 13.40 | - | 384 | 12.49 | 1.31 | 637 | 12.85 | - |
| 132 | 8.77 | 0.93 | 385 | 12.47 | 2.32 | 638 | 13.09 | 0.41 |
| 133 | 13.32 | 1.23 | 386 | 11.52 | 0.38 | 639 | 12.09 | 1.09 |
| 134 | 11.73 | 2.01 | 387 | 12.54 | 2.15 | 640 | 11.80 | 0.27 |
| 135 | 9.65 | 0.68 | 388 | 11.18 | 0.26 | 641 | 12.61 | 2.03 |
| 136 | 13.03 | 0.96 | 389 | 12.47 | 0.92 | 642 | 11.76 | 0.46 |
| 137 | 12.72 | 0.83 | 390 | 12.37 | 0.91 | 643 | 12.03 | 1.20 |
| 138 | 10.53 | 0.49 | 391 | 11.64 | 1.62 | 644 | 11.54 | 2.33 |
| 139 | 10.83 | 1.85 | 392 | 11.83 | 0.19 | 645 | 11.97 | 1.30 |
| 140 | 10.75 | 1.69 | 393 | 11.20 | 0.59 | 646 | 13.05 | 1.16 |
| 141 | 11.35 | 0.79 | 394 | 10.30 | 2.50 | 647 | 10.76 | 0.87 |

Table 5. (continued)

| No | V | B-V | No | V | B-V | No | V | B-V |
|-----|-------|-------|-----|-------|------|-----|-------|-------|
| 142 | 9.39 | 2.01 | 395 | 11.88 | 0.61 | 648 | 12.24 | 0.31 |
| 143 | 13.03 | 0.71 | 396 | 12.92 | - | 649 | 9.02 | -0.01 |
| 144 | 13.12 | 0.62 | 397 | 11.25 | 0.69 | 650 | 13.05 | - |
| 145 | 10.75 | 0.12 | 398 | 13.15 | 1.24 | 651 | 12.80 | 0.95 |
| 146 | 13.02 | 0.73 | 399 | 10.61 | 1.10 | 652 | 12.96 | 1.25 |
| 147 | 11.92 | 2.27 | 400 | 11.65 | 0.33 | 653 | 11.58 | 0.40 |
| 148 | 12.35 | 0.56 | 401 | 12.37 | 0.31 | 654 | 12.64 | 1.92 |
| 149 | 12.94 | 1.21 | 402 | 12.41 | 0.71 | 655 | 12.85 | 1.97 |
| 150 | 11.49 | 2.00 | 403 | 10.64 | 0.78 | 656 | 10.30 | 0.10 |
| 151 | 9.74 | 1.35 | 404 | 8.48 | 0.87 | 657 | 12.47 | 1.21 |
| 152 | 12.71 | 2.08 | 405 | 12.43 | 0.04 | 658 | 11.62 | 1.66 |
| 153 | 11.05 | -0.30 | 406 | 12.22 | 0.77 | 659 | 12.17 | 0.11 |
| 154 | 10.91 | 1.21 | 407 | 13.12 | 0.97 | 660 | 13.03 | 1.56 |
| 155 | 11.89 | 0.24 | 408 | 11.84 | 2.32 | 661 | 9.58 | 0.08 |
| 156 | 12.30 | 0.84 | 409 | 12.80 | 2.02 | 662 | 12.64 | 1.82 |
| 157 | 12.50 | 0.33 | 410 | 10.30 | 0.69 | 663 | 13.33 | 0.83 |
| 158 | 7.64 | -0.08 | 411 | 11.59 | 1.63 | 664 | 13.25 | 0.99 |
| 159 | 12.10 | 0.66 | 412 | 10.21 | 0.87 | 665 | 13.19 | 1.73 |
| 160 | 11.64 | 0.70 | 413 | 11.81 | 2.19 | 666 | 10.73 | 0.27 |
| 161 | 10.28 | -0.20 | 414 | 12.25 | 0.22 | 667 | 11.92 | 1.48 |
| 162 | 7.07 | 1.37 | 415 | 12.59 | 1.61 | 668 | 12.08 | 0.95 |
| 163 | 11.23 | 1.23 | 416 | 12.34 | 1.67 | 669 | 12.26 | 0.65 |
| 164 | 11.86 | 1.17 | 417 | 11.79 | 2.39 | 670 | 13.15 | 1.17 |
| 165 | 12.63 | 0.66 | 418 | 9.55 | 1.97 | 671 | 11.89 | 1.33 |
| 166 | 11.58 | 0.47 | 419 | 10.97 | 1.53 | 672 | 11.16 | 0.53 |
| 167 | 8.35 | 0.40 | 420 | 11.14 | 2.12 | 673 | 10.67 | 2.83 |
| 168 | 11.34 | 0.27 | 421 | 12.89 | 1.41 | 674 | 12.48 | 2.28 |
| 169 | 12.59 | 1.88 | 422 | 11.16 | 1.80 | 675 | 12.84 | 1.96 |
| 170 | 12.41 | 0.68 | 423 | 9.94 | 0.27 | 676 | 13.04 | 1.40 |
| 171 | 13.10 | 0.90 | 424 | 12.38 | 0.59 | 677 | 12.12 | 1.76 |
| 172 | 13.13 | 1.51 | 425 | 10.75 | 1.49 | 678 | 13.22 | 1.06 |
| 173 | 13.16 | 1.34 | 426 | 11.50 | 0.74 | 679 | 12.53 | 0.90 |
| 174 | 11.21 | 1.34 | 427 | 11.68 | 1.87 | 680 | 11.63 | 1.39 |
| 175 | 11.28 | 0.34 | 428 | 10.71 | 0.56 | 681 | 11.97 | 1.88 |
| 176 | 12.94 | 1.33 | 429 | 13.32 | 0.45 | 682 | 11.93 | 0.54 |
| 177 | 12.84 | 1.91 | 430 | 10.22 | 1.09 | 683 | 12.20 | 0.58 |
| 178 | 12.63 | 1.18 | 431 | 11.13 | 0.75 | 684 | 11.34 | 0.92 |
| 179 | 12.84 | 1.13 | 432 | 12.11 | 0.43 | 685 | 12.96 | 0.91 |
| 180 | 11.23 | 0.14 | 433 | 13.27 | 0.61 | 686 | 11.73 | 0.37 |
| 181 | 12.10 | 0.69 | 434 | 9.16 | 1.79 | 687 | 12.90 | - |
| 182 | 12.59 | 1.17 | 435 | 13.40 | 1.03 | 688 | 11.28 | 0.25 |
| 183 | 11.85 | 2.20 | 436 | 10.40 | 0.35 | 689 | 13.51 | 0.94 |
| 184 | 13.06 | - | 437 | 11.85 | 0.35 | 690 | 9.14 | 1.85 |
| 185 | 10.69 | -0.09 | 438 | 12.95 | - | 691 | 12.96 | 0.51 |
| 186 | 9.34 | -0.56 | 439 | 12.15 | 0.60 | 692 | 12.79 | - |
| 187 | 12.31 | - | 440 | 10.98 | 1.10 | 693 | 12.11 | 2.18 |
| 188 | 12.50 | 1.97 | 441 | 13.38 | 0.70 | 694 | 13.26 | -0.07 |
| 189 | 12.72 | - | 442 | 13.62 | 1.15 | 695 | 12.64 | 1.50 |
| 190 | 12.08 | 0.91 | 443 | 13.31 | - | 696 | 12.23 | 0.11 |
| 191 | 11.87 | 2.27 | 444 | 12.06 | 0.18 | 697 | 8.45 | 1.20 |
| 192 | 11.18 | 0.72 | 445 | 13.06 | - | 698 | 12.93 | 0.97 |
| 193 | 12.40 | 0.56 | 446 | 9.38 | 1.44 | 699 | 11.21 | 2.58 |
| 194 | 12.60 | 0.82 | 447 | 11.87 | 0.15 | 700 | 11.26 | 1.77 |
| 195 | 12.66 | 2.06 | 448 | 11.55 | 2.32 | 701 | 12.40 | 0.44 |
| 196 | 11.76 | 0.46 | 449 | 12.55 | 0.58 | 702 | 12.12 | 1.22 |
| 197 | 11.18 | 1.69 | 450 | 8.09 | 1.46 | 703 | 12.53 | 0.81 |
| 198 | 11.98 | 2.06 | 451 | 11.12 | 0.53 | 704 | 12.21 | 2.35 |

Table 5. (continued)

| No | V | B-V | No | V | B-V | No | V | B-V |
|-----|-------|-------|-----|-------|------|-----|-------|-------|
| 199 | 10.76 | 2.21 | 452 | 12.88 | 1.51 | 705 | 13.04 | 0.60 |
| 200 | 11.95 | 0.21 | 453 | 13.25 | - | 706 | 10.80 | -0.18 |
| 201 | 12.06 | 0.90 | 454 | 11.11 | 1.38 | 707 | 8.83 | 0.68 |
| 202 | 12.41 | 1.36 | 455 | 13.21 | - | 708 | 11.29 | 0.26 |
| 203 | 12.52 | 0.03 | 456 | 12.10 | - | 709 | 12.73 | - |
| 204 | 13.06 | 1.27 | 457 | 12.72 | - | 710 | 9.91 | 1.14 |
| 205 | 11.57 | -0.19 | 458 | 12.54 | 1.04 | 711 | 12.93 | - |
| 206 | 11.39 | -0.38 | 459 | 11.78 | 2.58 | 712 | 11.49 | 0.66 |
| 207 | 8.61 | 0.96 | 460 | 12.46 | - | 713 | 9.22 | 0.06 |
| 208 | 12.79 | 2.24 | 461 | 10.75 | 0.30 | 714 | 11.87 | 1.46 |
| 209 | 12.57 | 0.78 | 462 | 12.47 | 1.85 | 715 | 12.70 | 1.81 |
| 210 | 11.03 | 1.80 | 463 | 13.18 | 1.31 | 716 | 12.65 | 0.39 |
| 211 | 12.63 | 0.99 | 464 | 11.06 | 1.15 | 717 | 12.38 | 1.76 |
| 212 | 12.30 | 0.27 | 465 | 12.33 | 0.78 | 718 | 12.12 | - |
| 213 | 12.29 | 0.77 | 466 | 12.49 | 0.91 | 719 | 13.05 | - |
| 214 | 11.01 | 0.47 | 467 | 12.62 | 0.62 | 720 | 12.05 | - |
| 215 | 11.27 | 0.77 | 468 | 10.63 | 2.42 | 721 | 12.47 | 1.40 |
| 216 | 7.25 | 1.25 | 469 | 13.00 | 0.89 | 722 | 11.91 | 0.53 |
| 217 | 10.21 | 0.06 | 470 | 12.14 | 1.85 | 723 | 12.74 | 0.81 |
| 218 | 11.50 | 0.09 | 471 | 11.69 | 1.50 | 724 | 13.17 | - |
| 219 | 11.99 | 1.64 | 472 | 12.83 | 0.87 | 725 | 9.81 | 1.78 |
| 220 | 13.28 | - | 473 | 12.43 | 0.81 | 726 | 11.67 | 2.65 |
| 221 | 13.12 | - | 474 | 12.55 | 0.79 | 727 | 12.67 | 1.13 |
| 222 | 11.77 | -0.16 | 475 | 12.69 | 2.17 | 728 | 9.17 | 1.20 |
| 223 | 12.50 | - | 476 | 12.27 | 0.96 | 729 | 12.01 | 1.64 |
| 224 | 12.21 | 0.78 | 477 | 11.02 | 2.45 | 730 | 12.51 | 1.00 |
| 225 | 12.29 | 0.23 | 478 | 10.75 | 1.48 | 731 | 12.51 | 0.67 |
| 226 | 12.21 | 0.29 | 479 | 12.43 | 0.85 | 732 | 11.50 | 1.65 |
| 227 | 11.48 | 0.76 | 480 | 13.11 | 1.01 | 733 | 12.87 | 1.18 |
| 228 | 12.22 | 1.83 | 481 | 11.82 | 1.78 | 734 | 12.05 | 1.07 |
| 229 | 11.81 | 1.37 | 482 | 12.81 | 0.77 | 735 | 13.30 | - |
| 230 | 13.56 | 0.53 | 483 | 10.85 | 0.84 | 736 | 11.34 | 1.67 |
| 231 | 12.48 | 0.59 | 484 | 12.09 | 2.64 | 737 | 12.67 | 2.12 |
| 232 | 12.22 | 1.51 | 485 | 12.38 | 0.59 | 738 | 12.56 | 2.34 |
| 233 | 11.45 | 0.62 | 486 | 12.42 | 1.12 | 739 | 12.14 | 0.27 |
| 234 | 11.58 | 1.52 | 487 | 13.04 | 1.14 | 740 | 11.93 | 0.25 |
| 235 | 10.98 | 1.90 | 488 | 13.09 | 0.74 | 741 | 12.71 | 0.52 |
| 236 | 12.59 | 0.53 | 489 | 11.31 | 0.67 | 742 | 12.63 | - |
| 237 | 8.30 | 0.36 | 490 | 12.59 | 2.07 | 743 | 12.89 | 1.88 |
| 238 | 11.77 | 0.41 | 491 | 12.22 | 0.76 | 744 | 13.22 | - |
| 239 | 9.89 | 0.49 | 492 | 11.12 | 1.57 | 745 | 12.89 | 0.51 |
| 240 | 11.00 | 2.50 | 493 | 10.29 | 1.73 | 745 | 12.77 | 1.55 |
| 241 | 12.61 | 0.69 | 494 | 12.52 | 1.20 | 747 | 12.03 | 0.89 |
| 242 | 11.82 | 0.83 | 495 | 12.71 | 1.05 | 748 | 10.95 | 2.78 |
| 243 | 13.28 | 0.55 | 496 | 12.86 | 1.22 | 749 | 12.37 | 1.74 |
| 244 | 11.41 | 1.08 | 497 | 12.67 | 1.10 | 750 | 13.09 | 1.04 |
| 245 | 10.25 | 0.46 | 498 | 10.32 | 0.18 | 751 | 10.89 | 1.54 |
| 246 | 13.15 | 0.34 | 499 | 12.09 | 2.26 | 752 | 12.61 | 1.08 |
| 247 | 12.06 | 0.70 | 500 | 10.90 | 1.40 | 753 | 12.68 | - |
| 248 | 12.48 | 1.51 | 501 | 9.20 | 0.02 | 754 | 12.28 | - |
| 249 | 11.73 | 1.98 | 502 | 12.67 | 1.00 | 755 | 12.03 | 1.82 |
| 250 | 11.74 | 0.58 | 503 | 12.77 | 0.85 | 756 | 10.93 | 0.83 |
| 251 | 13.22 | 0.90 | 504 | 11.02 | 1.98 | 757 | 11.63 | 1.96 |
| 252 | 10.59 | 0.30 | 505 | 9.28 | 1.18 | | | |
| 253 | 12.72 | 0.90 | 506 | 10.66 | 0.29 | | | |

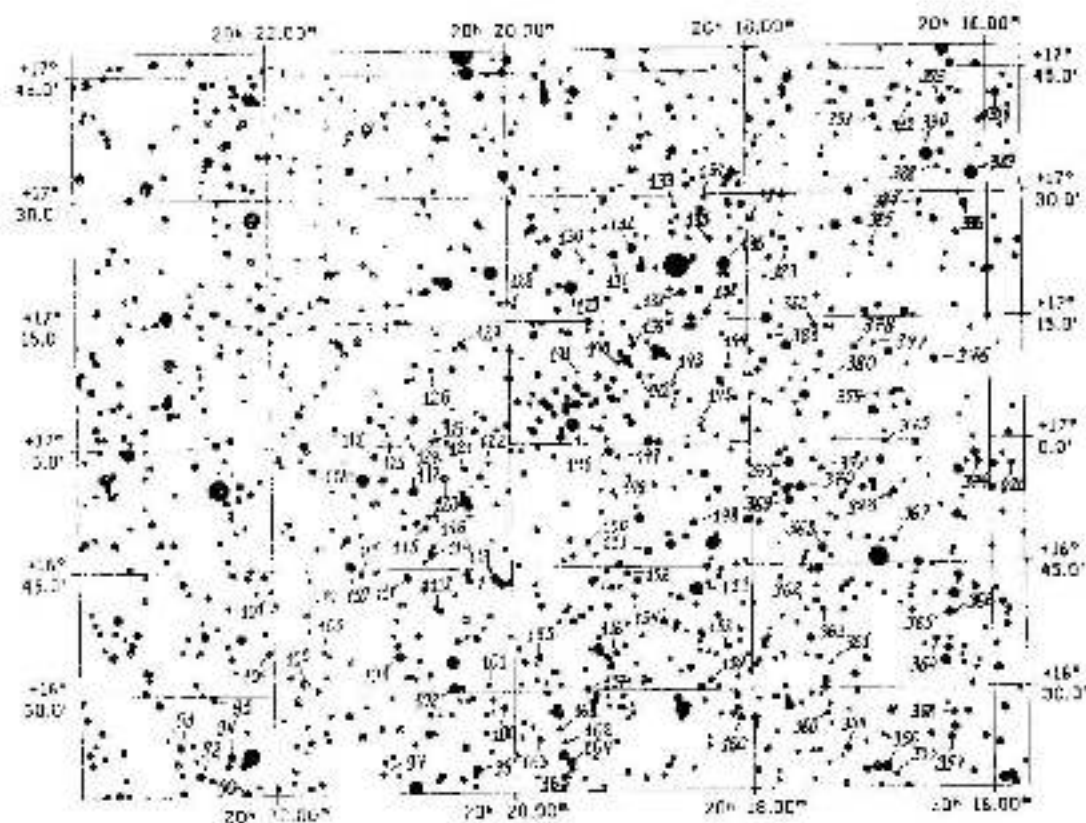


Fig. 28. CA 28, Instrument 1

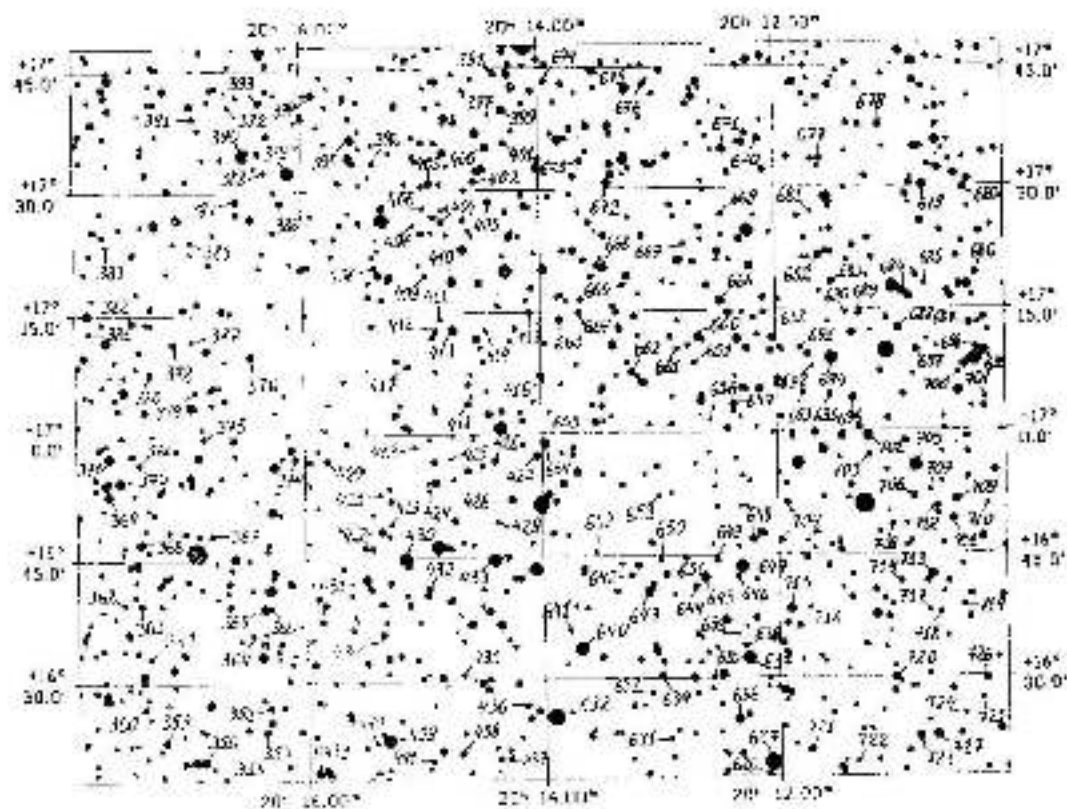


Fig. 29. CA 28, Instrument 2

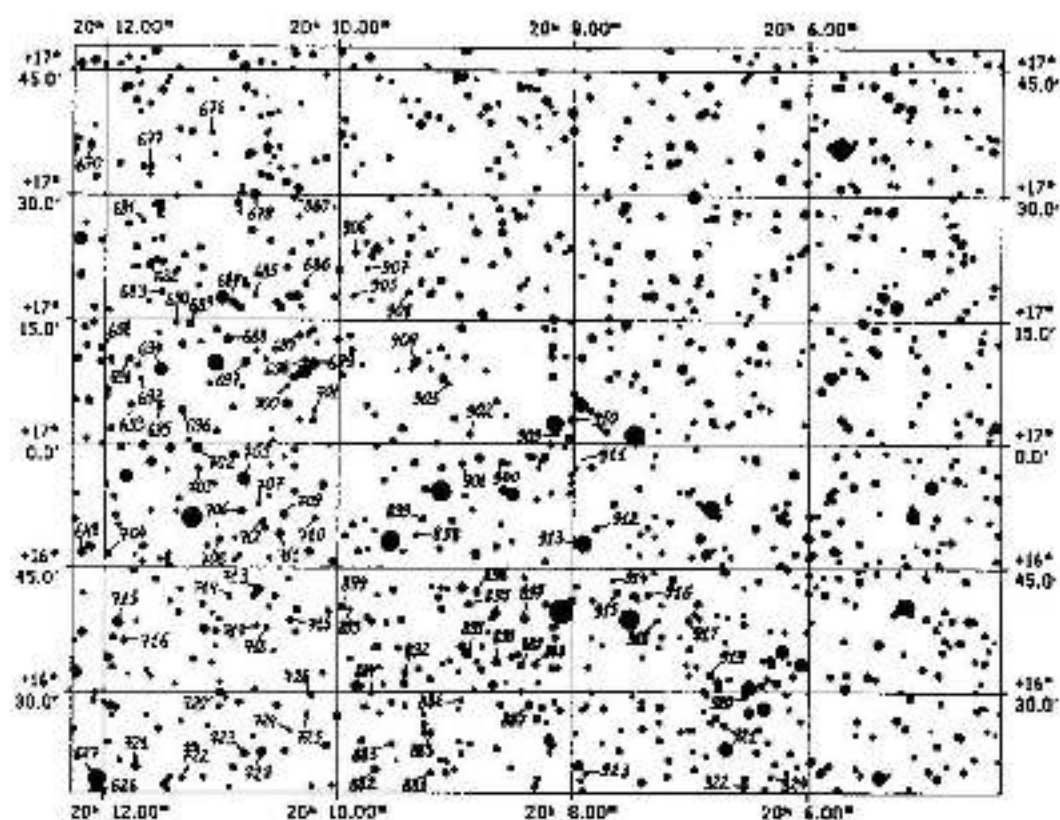


Fig. 40. KA-88, fragment 3

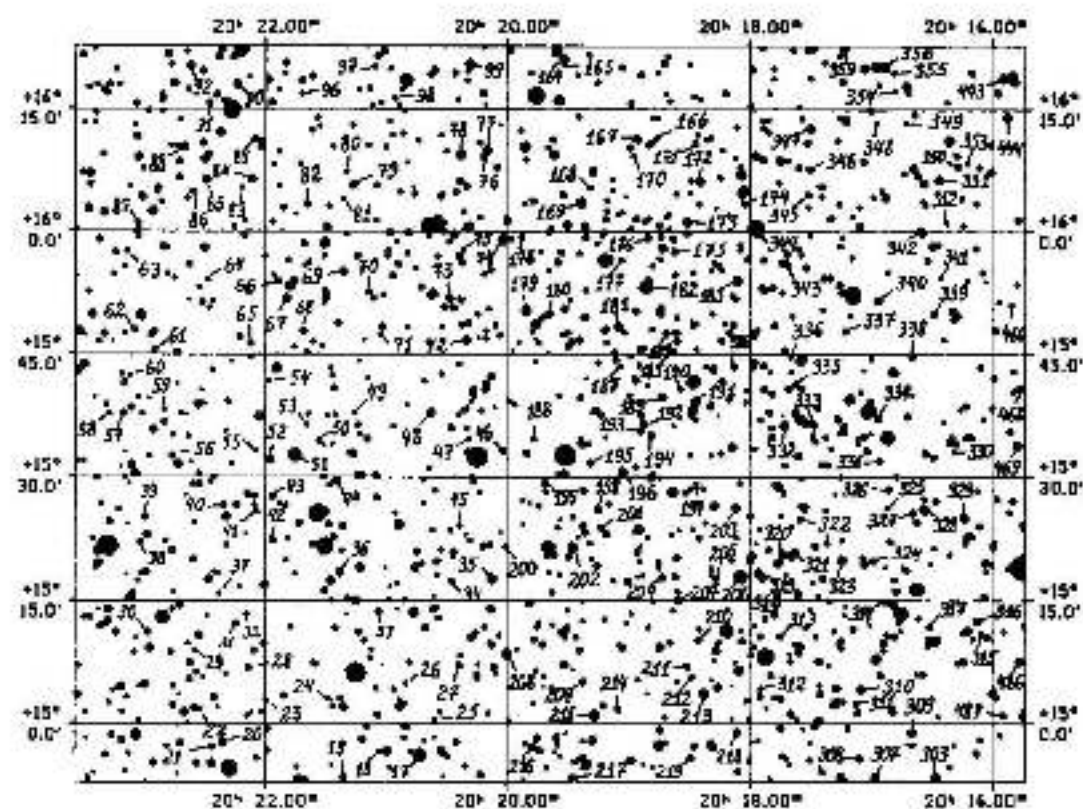


Fig. 41. KA-88, fragment 4

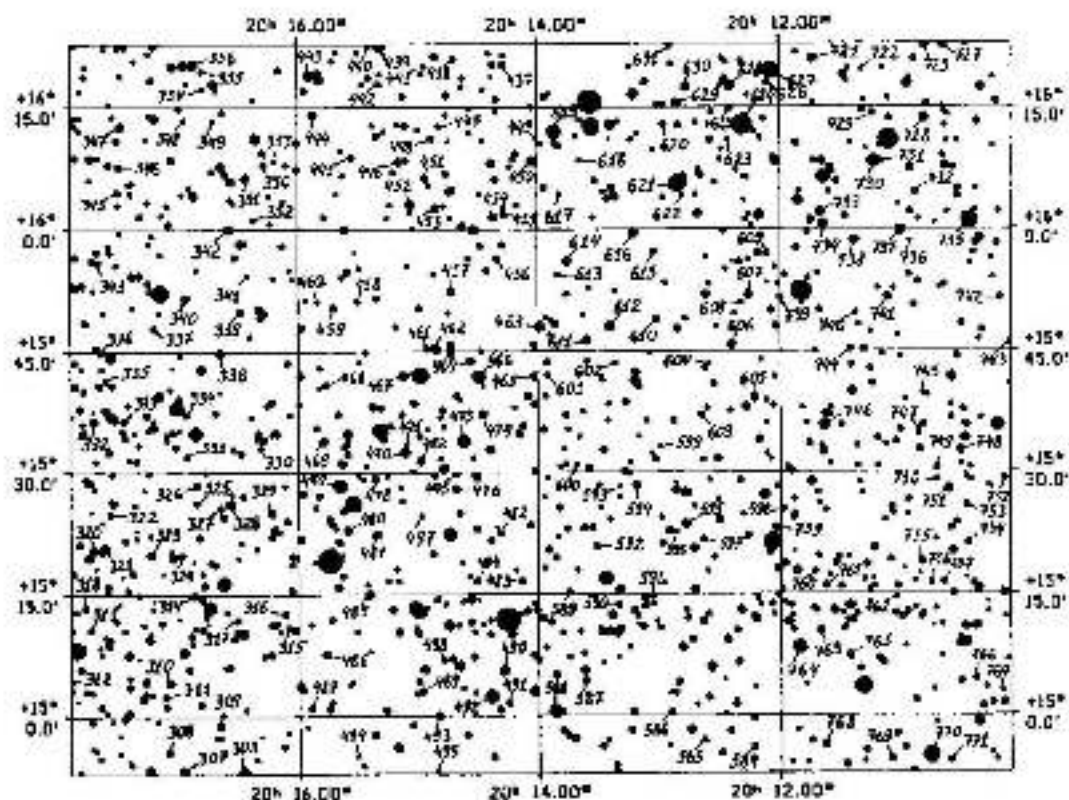


Fig. 42: KA-RR fragment 5

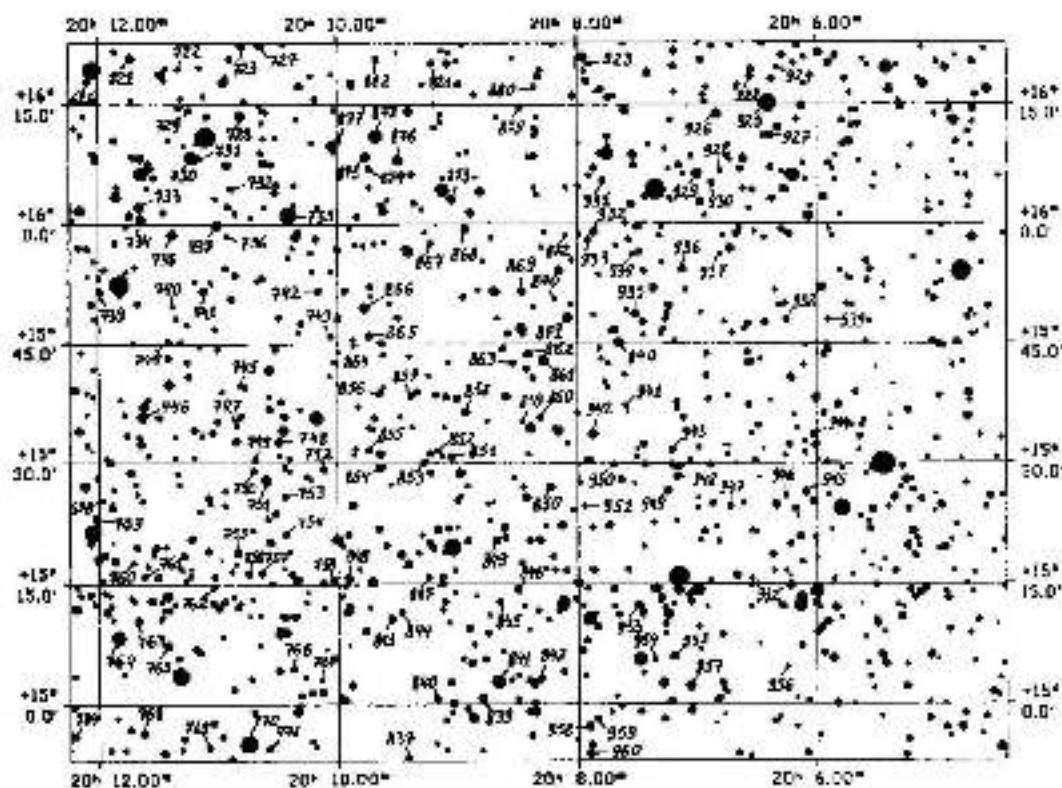


Fig. 43: KA-RR fragment 6

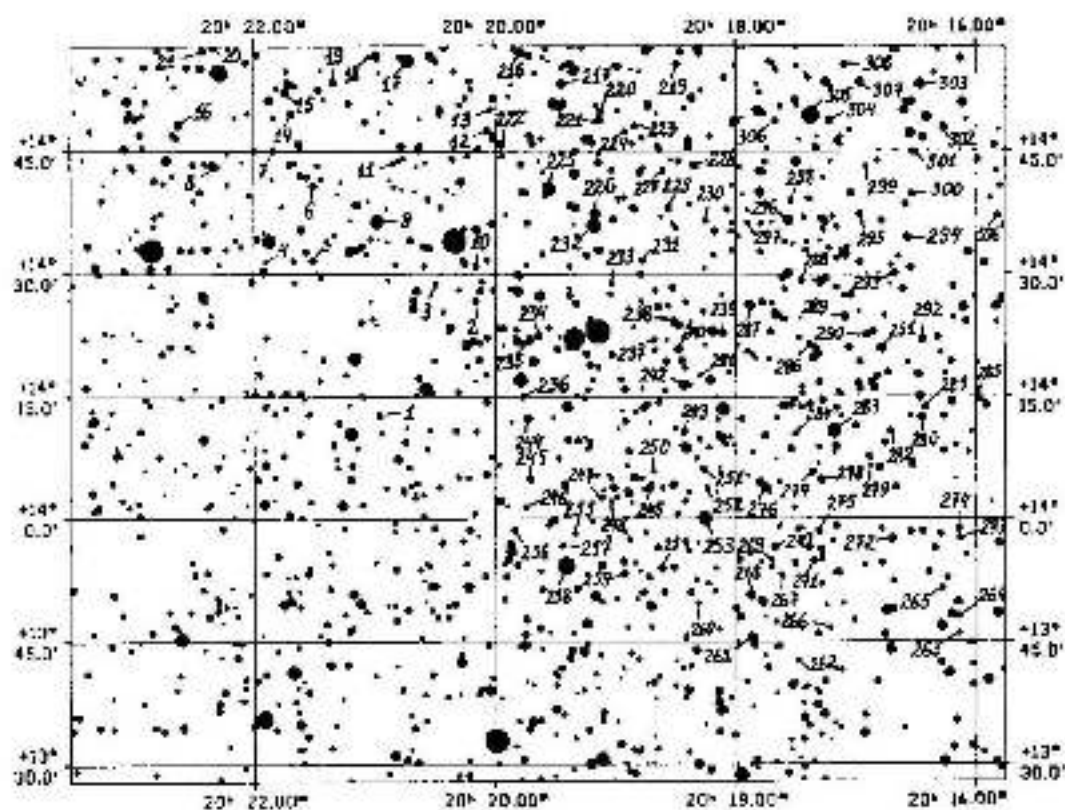


Fig. 44: KA-88, fragment 7

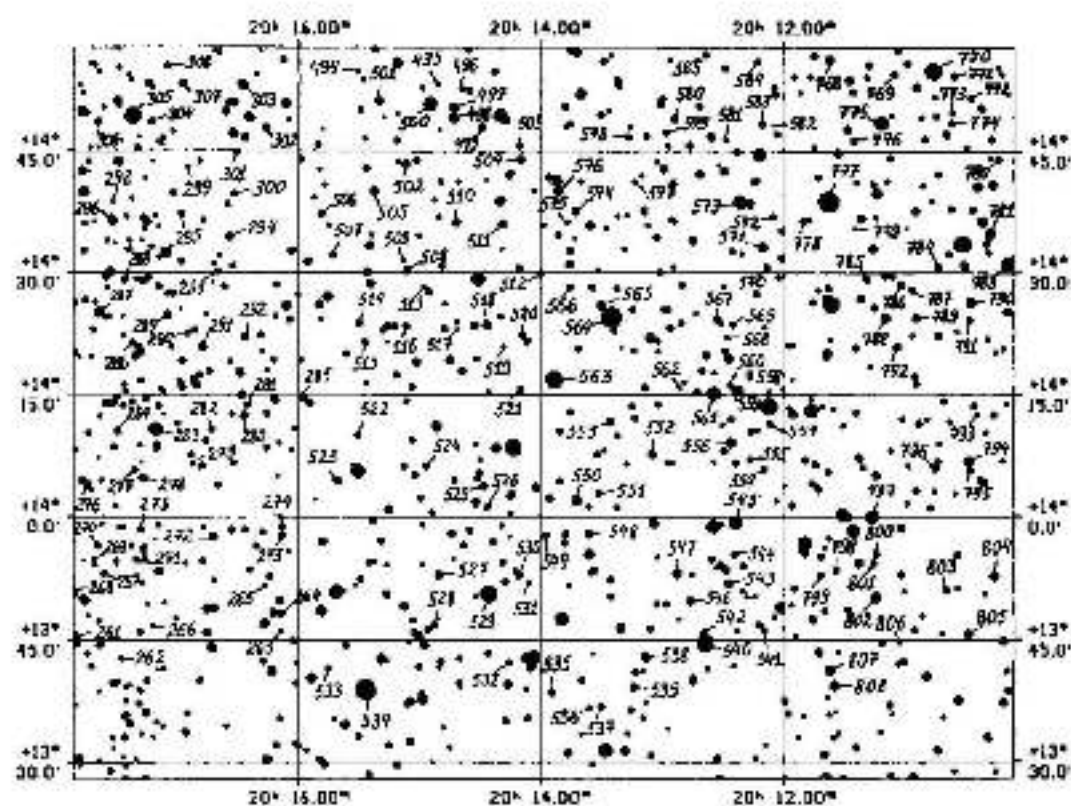


Fig. 45: KA-88, fragment 8

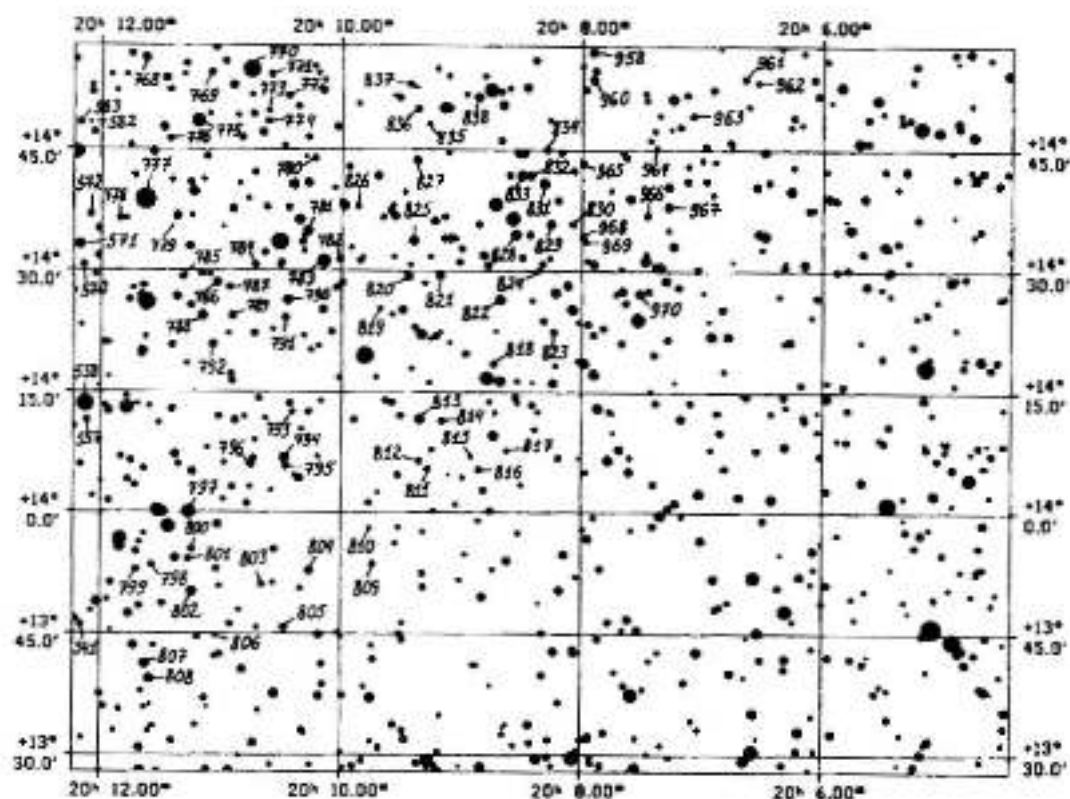


Fig. 46: KA-88, fragment 9

Table 8. Kapteyn Area KA-88: magnitudes and color indices of stars

| No | V | B-V | No | V | B-V | No | V | B-V |
|----|-------|-------|-----|-------|------|-----|-------|------|
| 1 | 12.03 | 1.26 | 325 | 12.96 | 1.64 | 649 | 12.54 | 0.74 |
| 2 | 12.03 | 0.35 | 326 | 12.28 | 0.34 | 650 | 13.06 | 0.55 |
| 3 | 12.64 | 0.70 | 327 | 12.80 | 1.87 | 651 | 12.97 | 1.73 |
| 4 | 12.63 | 1.26 | 328 | 9.81 | 1.23 | 652 | 11.54 | 0.29 |
| 5 | 12.54 | 0.63 | 329 | 10.65 | 0.10 | 653 | 12.52 | 0.58 |
| 6 | 11.89 | 1.53 | 330 | 13.03 | 0.94 | 654 | 10.12 | 0.09 |
| 7 | 11.57 | 1.29 | 331 | 12.41 | 0.76 | 655 | 11.11 | 0.46 |
| 8 | 9.69 | 0.37 | 332 | 11.26 | 1.18 | 656 | 13.04 | 0.51 |
| 9 | 8.99 | 0.87 | 333 | 12.03 | 0.13 | 657 | 10.71 | 0.45 |
| 10 | 13.00 | -0.02 | 334 | 12.37 | 0.61 | 658 | 11.70 | 1.01 |
| 11 | 12.79 | 0.72 | 335 | 12.51 | 1.60 | 659 | 12.09 | 1.59 |
| 12 | 11.64 | 1.09 | 336 | 12.71 | 0.60 | 660 | 10.12 | 0.83 |
| 13 | 13.24 | 0.61 | 337 | 12.53 | 0.47 | 661 | 13.33 | 0.30 |
| 14 | 12.21 | 0.47 | 338 | 11.63 | 1.46 | 662 | 12.56 | 1.12 |
| 15 | 10.45 | 0.69 | 339 | 12.45 | 0.23 | 663 | 10.90 | 1.64 |
| 16 | 11.75 | 1.30 | 340 | 10.66 | 1.54 | 664 | 12.36 | 0.38 |
| 17 | 8.93 | 1.23 | 341 | 12.89 | 0.28 | 665 | 12.61 | 0.79 |
| 18 | 12.60 | 0.50 | 342 | 9.32 | 0.35 | 666 | 9.42 | 0.26 |
| 19 | 12.48 | 1.20 | 343 | 12.92 | 0.96 | 667 | 13.44 | 0.29 |
| 20 | 11.08 | 0.91 | 344 | 8.23 | 1.34 | 668 | 9.35 | 0.29 |
| 21 | 12.28 | 0.74 | 345 | 13.11 | 0.83 | 669 | 12.37 | 1.29 |
| 22 | 13.13 | 0.70 | 346 | 12.94 | 1.03 | 670 | 11.19 | 0.55 |
| 23 | 12.89 | 1.80 | 347 | 10.21 | 0.47 | 671 | 11.33 | 1.30 |
| 24 | 12.67 | 1.60 | 348 | 12.85 | 0.80 | 672 | 10.99 | 0.76 |
| 25 | 12.42 | 0.52 | 349 | 12.72 | 1.66 | 673 | 11.69 | 0.55 |

Table 6. (continued)

| No | V | B-V | No | V | B-V | No | V | B-V |
|----|-------|------|-----|-------|------|-----|-------|------|
| 26 | 12.57 | 0.73 | 350 | 11.55 | 0.53 | 674 | 12.33 | 0.94 |
| 27 | 12.33 | 0.30 | 351 | 11.00 | 1.35 | 675 | 10.12 | 0.36 |
| 28 | 12.20 | 0.30 | 352 | 12.39 | 0.91 | 676 | 12.39 | 0.36 |
| 29 | 12.67 | 0.64 | 353 | 12.67 | 1.23 | 677 | 12.50 | 0.96 |
| 30 | 12.23 | 1.27 | 354 | 12.68 | 0.74 | 678 | 12.55 | 0.34 |
| 31 | 11.91 | 1.04 | 355 | 12.52 | 0.49 | 679 | 9.84 | 0.48 |
| 32 | 12.77 | 0.32 | 356 | 10.05 | 1.10 | 680 | 11.99 | 0.39 |
| 33 | 11.77 | 0.87 | 357 | 11.93 | 0.42 | 681 | 12.62 | 0.89 |
| 34 | 11.98 | 0.66 | 358 | 11.79 | 1.09 | 682 | 11.51 | 1.08 |
| 35 | 9.32 | 0.16 | 359 | 10.71 | 1.55 | 683 | 12.00 | 1.08 |
| 36 | 11.59 | 1.43 | 360 | 12.83 | 0.54 | 684 | 12.00 | 1.33 |
| 37 | 13.32 | 0.47 | 361 | 12.60 | 0.79 | 685 | 12.95 | 2.03 |
| 38 | 13.38 | 0.96 | 362 | 12.66 | 1.09 | 686 | 11.87 | 0.48 |
| 39 | 12.37 | 0.93 | 363 | 12.42 | 0.94 | 687 | 11.82 | 2.00 |
| 40 | 12.60 | 1.29 | 364 | 11.78 | 0.13 | 688 | 10.37 | 0.96 |
| 41 | 11.96 | 0.42 | 365 | 10.26 | 0.97 | 689 | 11.84 | 0.48 |
| 42 | 11.77 | 1.20 | 366 | 12.64 | 0.51 | 690 | 12.72 | 0.74 |
| 43 | 11.46 | 0.54 | 367 | 12.10 | 0.65 | 691 | 12.10 | 1.40 |
| 44 | 11.62 | 1.43 | 368 | 10.45 | 1.68 | 692 | 13.01 | 0.48 |
| 45 | 12.43 | 0.79 | 369 | 11.39 | 0.57 | 693 | 12.99 | 0.88 |
| 46 | 11.55 | 0.08 | 370 | 9.42 | 0.54 | 694 | 8.83 | 0.00 |
| 47 | 12.58 | 0.83 | 371 | 9.81 | 1.23 | 695 | 12.18 | 1.65 |
| 48 | 11.41 | 1.01 | 372 | 11.80 | 0.91 | 696 | 11.23 | 0.36 |
| 49 | 12.71 | 0.90 | 373 | 12.39 | 0.36 | 697 | 11.20 | 0.51 |
| 50 | 12.67 | 0.55 | 374 | 12.28 | 0.43 | 698 | 12.74 | 1.47 |
| 51 | 9.01 | 0.57 | 375 | 11.60 | 1.20 | 699 | 10.59 | 1.11 |
| 52 | 12.30 | 1.37 | 376 | 11.55 | 1.11 | 700 | 13.12 | 1.44 |
| 53 | 12.75 | 1.27 | 377 | 12.43 | 0.68 | 701 | 13.05 | 0.97 |
| 54 | 13.14 | 0.98 | 378 | 11.60 | 1.23 | 702 | 9.76 | 0.97 |
| 55 | 12.52 | 0.19 | 379 | 11.69 | 0.83 | 703 | 12.05 | 0.37 |
| 56 | 12.46 | 1.70 | 380 | 11.72 | 1.22 | 704 | 11.59 | 0.05 |
| 57 | 12.08 | 1.40 | 381 | 13.23 | 0.60 | 705 | 8.93 | 1.60 |
| 58 | 13.09 | 1.36 | 382 | 12.63 | 0.43 | 706 | 11.51 | 0.42 |
| 59 | 13.08 | 0.51 | 383 | 12.70 | 0.31 | 707 | 12.56 | 0.29 |
| 60 | 13.38 | 1.07 | 384 | 11.79 | 1.72 | 708 | 11.83 | 0.64 |
| 61 | 12.23 | 0.69 | 385 | 12.78 | 0.19 | 709 | 10.56 | 0.61 |
| 62 | 12.03 | 0.63 | 386 | 10.71 | 1.00 | 710 | 13.05 | 0.83 |
| 63 | 13.13 | 1.22 | 387 | 11.99 | 1.23 | 711 | 11.45 | 0.44 |
| 64 | 13.62 | 1.02 | 388 | 12.75 | 1.00 | 712 | 11.57 | 0.49 |
| 65 | 12.65 | 0.27 | 389 | 8.80 | 1.07 | 713 | 10.44 | 1.12 |
| 66 | 12.24 | 0.76 | 390 | 9.04 | 1.43 | 714 | 12.28 | 0.48 |
| 67 | 11.75 | 1.65 | 391 | 11.92 | 0.09 | 715 | 10.33 | 1.67 |
| 68 | 12.60 | 1.20 | 392 | 12.62 | 1.20 | 716 | 11.86 | 0.74 |
| 69 | 11.17 | 0.76 | 393 | 10.47 | 0.43 | 717 | 13.18 | 1.02 |
| 70 | 12.80 | 0.47 | 394 | 11.37 | 0.08 | 718 | 11.88 | 1.05 |
| 71 | 12.93 | 0.86 | 395 | 10.01 | 0.70 | 719 | 12.46 | 0.47 |
| 72 | 10.67 | 0.79 | 396 | 12.30 | 0.64 | 720 | 10.65 | 0.25 |
| 73 | 11.27 | 1.67 | 397 | 12.38 | 0.37 | 721 | 11.25 | 1.52 |
| 74 | 10.58 | 1.63 | 398 | 11.71 | 0.81 | 722 | 12.89 | 1.16 |
| 75 | 13.25 | 0.41 | 399 | 11.27 | 1.38 | 723 | 11.04 | 0.48 |
| 76 | 12.44 | 0.51 | 400 | 11.25 | 0.75 | 724 | 13.33 | 0.38 |
| 77 | 11.57 | 1.23 | 401 | 12.01 | 0.67 | 725 | 12.59 | 0.59 |
| 78 | 10.66 | 1.29 | 402 | 12.43 | 1.10 | 726 | 11.82 | 0.39 |
| 79 | 11.05 | 0.86 | 403 | 10.95 | 1.16 | 727 | 10.16 | 1.51 |
| 80 | 12.67 | 1.68 | 404 | 11.89 | 0.75 | 728 | 9.82 | 1.18 |

Table 6. (continued)

| No | V | B-V | No | V | B-V | No | V | B-V |
|-----|-------|------|-----|-------|-------|-----|-------|-------|
| 81 | 12.92 | 1.28 | 405 | 11.33 | 0.19 | 729 | 12.32 | 1.15 |
| 82 | 11.89 | 1.38 | 406 | 12.95 | 0.70 | 730 | 9.46 | 1.13 |
| 83 | 12.81 | 0.86 | 407 | 13.06 | 1.44 | 731 | 12.89 | -0.36 |
| 84 | 11.27 | 1.23 | 408 | 11.72 | 0.33 | 732 | 11.60 | 1.24 |
| 85 | 11.44 | 1.75 | 409 | 13.06 | 0.55 | 733 | 10.12 | 0.32 |
| 86 | 11.71 | 0.63 | 410 | 9.69 | 0.61 | 734 | 10.23 | 0.85 |
| 87 | 12.23 | 0.79 | 411 | 12.85 | 1.24 | 735 | 8.22 | 0.23 |
| 88 | 11.59 | 0.71 | 412 | 12.19 | 1.19 | 736 | 13.05 | 0.48 |
| 89 | 12.18 | 1.90 | 413 | 10.00 | 0.39 | 737 | 9.80 | 0.77 |
| 90 | 10.75 | 0.61 | 414 | 12.62 | 0.65 | 738 | 9.83 | 1.29 |
| 91 | 12.84 | 0.35 | 415 | 12.34 | 0.63 | 739 | 11.24 | 0.44 |
| 92 | 11.38 | 1.11 | 416 | 12.95 | 0.96 | 740 | 12.96 | 1.08 |
| 93 | 11.10 | 0.66 | 417 | 11.76 | 0.17 | 741 | 10.92 | 0.50 |
| 94 | 11.78 | 1.71 | 418 | 11.56 | 0.93 | 742 | 11.85 | 0.52 |
| 95 | 12.51 | 0.26 | 419 | 12.44 | 1.63 | 743 | 12.29 | 0.40 |
| 96 | 13.49 | 1.25 | 420 | 12.12 | 0.63 | 744 | 12.21 | 0.97 |
| 97 | 12.67 | 0.46 | 421 | 12.74 | 1.16 | 745 | 12.49 | 1.33 |
| 98 | 12.61 | 0.42 | 422 | 10.61 | 1.43 | 746 | 9.66 | 0.53 |
| 99 | 10.15 | 1.62 | 423 | 13.12 | 0.12 | 747 | 12.77 | 1.13 |
| 100 | 10.15 | 1.62 | 424 | 12.70 | 0.51 | 748 | 11.25 | 1.06 |
| 101 | 12.60 | 0.17 | 425 | 12.85 | 1.18 | 749 | 12.03 | 1.45 |
| 102 | 10.59 | 0.32 | 426 | 11.91 | 1.57 | 750 | 12.48 | 0.50 |
| 103 | 10.73 | 0.41 | 427 | 11.59 | 0.65 | 751 | 10.36 | 0.21 |
| 104 | 10.06 | 1.20 | 428 | 10.38 | 0.49 | 752 | 12.32 | 0.75 |
| 105 | 13.31 | 1.49 | 429 | 13.23 | 1.17 | 753 | 12.57 | 1.38 |
| 106 | 11.94 | 0.58 | 430 | 9.33 | 1.46 | 754 | 11.63 | 0.98 |
| 107 | 12.96 | 0.47 | 431 | 9.62 | 1.70 | 755 | 11.57 | 1.08 |
| 108 | 11.70 | 1.03 | 432 | 11.35 | 0.28 | 756 | 12.40 | 0.75 |
| 109 | 12.67 | 1.10 | 433 | 9.44 | 0.85 | 757 | 12.43 | 1.49 |
| 110 | 9.69 | 0.42 | 434 | 13.23 | 0.60 | 758 | 12.15 | 0.32 |
| 111 | 11.67 | 1.50 | 435 | 12.83 | 1.75 | 759 | 11.68 | 1.10 |
| 112 | 12.58 | 1.59 | 436 | 12.01 | 1.30 | 760 | 13.04 | 0.27 |
| 113 | 10.93 | 0.30 | 437 | 12.40 | 0.26 | 761 | 12.50 | 0.49 |
| 114 | 10.55 | 0.16 | 438 | 11.90 | 0.22 | 762 | 13.75 | 1.12 |
| 115 | 12.43 | 0.44 | 439 | 8.99 | 0.09 | 763 | 11.34 | 0.51 |
| 116 | 13.49 | 1.06 | 440 | 12.86 | 0.40 | 764 | 9.50 | 0.45 |
| 117 | 9.66 | 0.51 | 441 | 13.13 | 0.52 | 765 | 11.48 | 1.11 |
| 118 | 9.54 | 0.52 | 442 | 12.30 | 0.14 | 766 | 11.81 | 0.40 |
| 119 | 10.98 | 0.53 | 443 | 9.75 | 0.55 | 767 | 13.01 | 1.21 |
| 120 | 10.99 | 1.11 | 444 | 10.82 | 1.32 | 768 | 11.48 | 1.05 |
| 121 | 12.59 | 0.45 | 445 | 11.86 | 0.96 | 769 | 12.37 | 0.73 |
| 122 | 13.30 | 1.30 | 446 | 10.77 | 1.26 | 770 | 8.72 | 1.61 |
| 123 | 12.04 | 1.49 | 447 | 12.59 | 1.29 | 771 | 11.94 | 0.58 |
| 124 | 12.63 | 1.56 | 448 | 12.59 | 1.02 | 772 | 12.57 | 1.03 |
| 125 | 12.70 | 0.58 | 449 | 12.83 | 0.54 | 773 | 12.96 | 0.49 |
| 126 | 12.11 | 1.92 | 450 | 10.15 | -0.09 | 774 | 12.34 | 0.43 |
| 127 | 12.27 | 1.21 | 451 | 12.24 | 1.22 | 775 | 9.83 | 1.30 |
| 128 | 12.91 | 1.04 | 452 | 9.97 | 0.29 | 776 | 11.68 | 0.22 |
| 129 | 9.85 | 0.19 | 453 | 10.77 | 1.12 | 777 | 7.63 | 0.24 |
| 130 | 12.73 | 0.79 | 454 | 10.51 | 0.50 | 778 | 12.35 | 1.35 |
| 131 | 10.52 | 0.43 | 455 | 11.86 | 1.05 | 779 | 11.95 | 0.56 |
| 132 | 10.03 | 0.18 | 456 | 12.47 | 1.19 | 780 | 12.33 | 0.64 |
| 133 | 13.19 | 0.94 | 457 | 11.01 | 0.72 | 781 | 10.95 | 1.48 |
| 134 | 13.20 | 0.55 | 458 | 12.97 | 0.61 | 782 | 12.14 | 2.04 |
| 135 | 12.56 | 0.57 | 459 | 11.56 | 0.52 | 783 | 9.67 | 0.31 |

Table 6. (continued)

| No | V | B-V | No | V | B-V | No | V | B-V |
|-----|-------|------|-----|-------|------|-----|-------|-------|
| 136 | 9.24 | 1.00 | 460 | 13.16 | 0.85 | 784 | 11.93 | 1.44 |
| 137 | 11.21 | 0.78 | 461 | 12.14 | 1.32 | 785 | 12.76 | -0.05 |
| 138 | 11.23 | 1.00 | 462 | 9.85 | 1.81 | 786 | 10.99 | 1.42 |
| 139 | 12.41 | 1.08 | 463 | 10.04 | 1.47 | 787 | 11.91 | 1.05 |
| 140 | 13.58 | 0.41 | 464 | 11.20 | 1.65 | 788 | 10.43 | -0.14 |
| 141 | 11.36 | 1.38 | 465 | 11.18 | 1.06 | 789 | 11.54 | 1.66 |
| 142 | 12.28 | 0.85 | 466 | 9.19 | 0.11 | 790 | 10.82 | 1.08 |
| 143 | 12.99 | 0.80 | 467 | 10.70 | 0.49 | 791 | 12.39 | 1.17 |
| 144 | 11.89 | 1.16 | 468 | 11.49 | 1.03 | 792 | 11.69 | 0.56 |
| 145 | 12.27 | 0.52 | 469 | 11.67 | 0.36 | 793 | 12.70 | 0.14 |
| 146 | 11.69 | 0.11 | 470 | 10.68 | 1.82 | 794 | 10.36 | 0.97 |
| 147 | 12.99 | 1.16 | 471 | 12.63 | 2.01 | 795 | 11.89 | 0.76 |
| 148 | 11.22 | 0.60 | 472 | 11.52 | 1.14 | 796 | 11.36 | 0.50 |
| 149 | 12.86 | 0.77 | 473 | 10.09 | 1.41 | 797 | 8.84 | 0.04 |
| 150 | 12.73 | 0.24 | 474 | 11.79 | 1.86 | 798 | 11.95 | 1.26 |
| 151 | 11.36 | 1.15 | 475 | 13.23 | 1.00 | 799 | 11.55 | 0.46 |
| 152 | 12.58 | 0.82 | 476 | 11.43 | 1.12 | 800 | 11.47 | 0.20 |
| 153 | 8.83 | 1.18 | 477 | 12.86 | 1.52 | 801 | 11.97 | 0.75 |
| 154 | 12.85 | 0.91 | 478 | 12.58 | 1.28 | 802 | 9.65 | 0.18 |
| 155 | 12.53 | 1.34 | 479 | 10.28 | 0.99 | 803 | 11.88 | 1.09 |
| 156 | 12.41 | 1.39 | 480 | 11.39 | 1.85 | 804 | 11.90 | 1.69 |
| 157 | 12.37 | 0.70 | 481 | 11.31 | 0.19 | 805 | 10.90 | 0.00 |
| 158 | 12.59 | 1.41 | 482 | 12.65 | 1.06 | 806 | 13.08 | 1.27 |
| 159 | 11.47 | 0.78 | 483 | 12.23 | 1.31 | 807 | 10.01 | 1.58 |
| 160 | 11.99 | 1.09 | 484 | 12.24 | 0.39 | 808 | 10.57 | 1.56 |
| 161 | 13.68 | 0.56 | 485 | 11.97 | 1.01 | 809 | 12.10 | -0.02 |
| 162 | 13.23 | 0.32 | 486 | 10.99 | 0.36 | 810 | 12.87 | 0.79 |
| 163 | 12.11 | 1.25 | 487 | 11.89 | 1.46 | 811 | 11.68 | 0.32 |
| 164 | 10.42 | 0.49 | 488 | 12.54 | 1.34 | 812 | 12.52 | 1.15 |
| 165 | 13.33 | 0.95 | 489 | 11.79 | 0.93 | 813 | 10.83 | 0.20 |
| 166 | 13.16 | 1.49 | 490 | 9.90 | 0.60 | 814 | 11.93 | 0.23 |
| 167 | 11.16 | 1.85 | 491 | 12.12 | 0.61 | 815 | 12.62 | 1.31 |
| 168 | 13.10 | 0.91 | 492 | 9.65 | 1.58 | 816 | 11.58 | -0.01 |
| 169 | 10.19 | 0.75 | 493 | 11.27 | 0.56 | 817 | 12.42 | 0.55 |
| 170 | 13.49 | 0.47 | 494 | 13.06 | 0.48 | 818 | 12.12 | 0.10 |
| 171 | 12.21 | 0.24 | 495 | 12.61 | 0.33 | 819 | 12.37 | 0.67 |
| 172 | 11.03 | 0.96 | 496 | 12.14 | 0.45 | 820 | 11.60 | 1.48 |
| 173 | 11.00 | 0.64 | 497 | 10.72 | 0.37 | 821 | 11.55 | 0.34 |
| 174 | 11.87 | 0.98 | 498 | 10.54 | 0.95 | 822 | 10.37 | 0.76 |
| 175 | 12.29 | 0.67 | 499 | 11.75 | 0.83 | 823 | 11.78 | 0.46 |
| 176 | 12.25 | 1.61 | 500 | 9.67 | 1.29 | 824 | 12.88 | 1.07 |
| 177 | 12.71 | 0.29 | 501 | 11.62 | 1.30 | 825 | 10.63 | 1.30 |
| 178 | 12.57 | 0.89 | 502 | 11.30 | 1.50 | 826 | 12.36 | 0.54 |
| 179 | 9.97 | 0.48 | 503 | 11.74 | 0.29 | 827 | 11.28 | 0.81 |
| 180 | 11.34 | 1.57 | 504 | 10.80 | 1.12 | 828 | 10.37 | 0.22 |
| 181 | 11.18 | 0.14 | 505 | 11.38 | 1.66 | 829 | 11.38 | 0.12 |
| 182 | 10.00 | 0.88 | 506 | 11.68 | 1.05 | 830 | 12.09 | 1.20 |
| 183 | 10.20 | 0.49 | 507 | 11.37 | 1.13 | 831 | 10.53 | 0.93 |
| 184 | 12.36 | 1.03 | 508 | 10.65 | 0.43 | 832 | 11.44 | 1.54 |
| 185 | 12.57 | 0.72 | 509 | 12.74 | 1.31 | 833 | 10.03 | 1.26 |
| 186 | 12.15 | 1.19 | 510 | 11.08 | 1.06 | 834 | 12.44 | 0.76 |
| 187 | 12.98 | 0.97 | 511 | 11.17 | 0.92 | 835 | 12.66 | 0.25 |
| 188 | 13.43 | 0.88 | 512 | 11.99 | 0.63 | 836 | 12.41 | 0.51 |
| 189 | 11.44 | 1.08 | 513 | 13.19 | 0.97 | 837 | 11.98 | 0.47 |
| 190 | 12.95 | 0.47 | 514 | 12.23 | 1.26 | 838 | 10.97 | 1.56 |

Table 6. (continued)

| No | V | B-V | No | V | B-V | No | V | B-V |
|-----|-------|-------|-----|-------|-------|-----|-------|------|
| 191 | 11.17 | 0.59 | 515 | 12.02 | 1.11 | 839 | 11.53 | 0.81 |
| 192 | 12.37 | 0.06 | 516 | 12.31 | 0.59 | 840 | 11.95 | 0.19 |
| 193 | 12.04 | 0.28 | 517 | 12.93 | 1.30 | 841 | 9.12 | 0.93 |
| 194 | 11.70 | 0.81 | 518 | 11.60 | 0.69 | 842 | 12.45 | 1.57 |
| 195 | 12.41 | 0.62 | 519 | 13.16 | 1.16 | 843 | 11.39 | 0.67 |
| 196 | 10.91 | 1.17 | 520 | 12.12 | 0.68 | 844 | 13.24 | 0.72 |
| 197 | 12.84 | 0.61 | 521 | 12.51 | 1.06 | 845 | 12.53 | 1.35 |
| 198 | 11.66 | 1.02 | 522 | 11.60 | 0.77 | 846 | 11.91 | 1.16 |
| 199 | 12.26 | 0.79 | 523 | 10.98 | 1.20 | 847 | 12.07 | 0.59 |
| 200 | 13.13 | 0.66 | 524 | 12.29 | 1.50 | 848 | 11.52 | 1.19 |
| 201 | 11.89 | 0.46 | 525 | 11.24 | 1.37 | 849 | 11.21 | 0.32 |
| 202 | 10.31 | 1.02 | 526 | 12.52 | 1.02 | 850 | 11.84 | 1.35 |
| 203 | 10.94 | 0.31 | 527 | 11.39 | 0.77 | 851 | 11.16 | 1.59 |
| 204 | 12.57 | 0.38 | 528 | 12.10 | 0.27 | 852 | 13.04 | 1.75 |
| 205 | 11.81 | 1.05 | 529 | 8.82 | 1.10 | 853 | 12.67 | 0.30 |
| 206 | 9.52 | 1.18 | 530 | 12.64 | 1.19 | 854 | 11.97 | 0.76 |
| 207 | 11.76 | 1.24 | 531 | 12.76 | 0.60 | 855 | 11.94 | 1.73 |
| 208 | 11.16 | 0.63 | 532 | 12.04 | 1.33 | 856 | 11.98 | 0.47 |
| 209 | 12.50 | 0.48 | 533 | 12.15 | 1.38 | 857 | 12.45 | 0.62 |
| 210 | 12.18 | 1.17 | 534 | 7.77 | 0.77 | 858 | 11.61 | 0.67 |
| 211 | 11.90 | -0.09 | 535 | 11.82 | 0.47 | 859 | 13.28 | 2.10 |
| 212 | 12.76 | 0.65 | 536 | 12.62 | 0.74 | 860 | 12.39 | 0.50 |
| 213 | 10.69 | 0.88 | 537 | 11.75 | 0.34 | 861 | 10.17 | 1.72 |
| 214 | 12.70 | 0.66 | 538 | 10.55 | 1.70 | 862 | 11.14 | 1.84 |
| 215 | 11.31 | 0.73 | 539 | 11.51 | 1.27 | 863 | 12.10 | 0.64 |
| 216 | 11.78 | 1.69 | 540 | 8.79 | 1.05 | 864 | 12.21 | 0.64 |
| 217 | 11.94 | 0.81 | 541 | 12.37 | 1.47 | 865 | 10.47 | 0.44 |
| 218 | 11.46 | 1.34 | 542 | 11.81 | 1.36 | 866 | 10.30 | 1.22 |
| 219 | 11.93 | 1.14 | 543 | 10.94 | 0.05 | 867 | 12.41 | 1.21 |
| 220 | 12.12 | 2.14 | 544 | 11.68 | 1.63 | 868 | 10.98 | 1.34 |
| 221 | 11.31 | 1.18 | 545 | 9.24 | -0.03 | 869 | 11.26 | 1.20 |
| 222 | 11.55 | 1.11 | 546 | 11.51 | 1.06 | 870 | 12.81 | 0.45 |
| 223 | 12.53 | 0.82 | 547 | 10.32 | 1.49 | 871 | 9.47 | 0.19 |
| 224 | 12.76 | 1.01 | 548 | 11.72 | 0.09 | 872 | 12.59 | 0.41 |
| 225 | 8.54 | 0.02 | 549 | 12.30 | 0.32 | 873 | 10.95 | 0.25 |
| 226 | 10.56 | 0.36 | 550 | 9.78 | 0.60 | 874 | 12.03 | 1.29 |
| 227 | 12.86 | 0.43 | 551 | 12.02 | 0.44 | 875 | 10.13 | 0.40 |
| 228 | 11.47 | 1.39 | 552 | 11.50 | 0.40 | 876 | 10.35 | 1.16 |
| 229 | 12.42 | 0.64 | 553 | 11.54 | 1.09 | 877 | 12.15 | 1.03 |
| 230 | 11.86 | 0.81 | 554 | 12.57 | 0.87 | 878 | 8.49 | 1.12 |
| 231 | 12.25 | 0.65 | 555 | 12.25 | 0.16 | 879 | 1.79 | 1.09 |
| 232 | 8.97 | 1.01 | 556 | 10.70 | 0.50 | 880 | 13.21 | 0.61 |
| 233 | 12.82 | 0.98 | 557 | 12.02 | 0.72 | 881 | 12.39 | 1.19 |
| 234 | 12.61 | 0.14 | 558 | 8.30 | 1.25 | 882 | 12.39 | 0.95 |
| 235 | 11.56 | 1.00 | 559 | 12.28 | 1.11 | 883 | 12.06 | 1.14 |
| 236 | 13.03 | 1.23 | 560 | 12.92 | 1.46 | 884 | 12.55 | 0.70 |
| 237 | 12.46 | 0.94 | 561 | 9.09 | 0.16 | 885 | 11.98 | 1.07 |
| 238 | 11.73 | 0.52 | 562 | 12.62 | 0.96 | 886 | 13.34 | 1.07 |
| 239 | 11.00 | 1.25 | 563 | 8.62 | 1.37 | 887 | 11.00 | 1.48 |
| 240 | 11.51 | 0.60 | 564 | 7.47 | 0.94 | 888 | 12.81 | 1.94 |
| 241 | 13.00 | 1.44 | 565 | 11.87 | 1.41 | 889 | 12.18 | 0.00 |
| 242 | 10.36 | 0.93 | 566 | 12.47 | 0.57 | 890 | 10.55 | 0.64 |
| 243 | 13.00 | 1.40 | 567 | 12.28 | 0.99 | 891 | 10.18 | 0.37 |
| 244 | 11.87 | 1.05 | 568 | 13.26 | 0.21 | 892 | 11.99 | 0.32 |
| 245 | 12.77 | 0.61 | 569 | 12.57 | 1.65 | 893 | 12.69 | 0.54 |

Table 6. (continued)

| No | V | B-V | No | V | B-V | No | V | B-V |
|-----|-------|-------|-----|-------|-------|-----|-------|------|
| 246 | 12.75 | 0.02 | 570 | 12.20 | 0.46 | 894 | 12.66 | 1.20 |
| 247 | 11.96 | 0.72 | 571 | 10.11 | 1.09 | 895 | 12.64 | 1.45 |
| 248 | 13.01 | 0.43 | 572 | 12.45 | 1.38 | 896 | 11.99 | 0.23 |
| 249 | 11.66 | 0.72 | 573 | 10.05 | 1.06 | 897 | 11.33 | 1.16 |
| 250 | 13.53 | 1.39 | 574 | 11.27 | 1.31 | 898 | 13.27 | 0.68 |
| 251 | 12.18 | 1.74 | 575 | 12.72 | 1.45 | 899 | 12.73 | 1.11 |
| 252 | 13.00 | 0.35 | 576 | 11.19 | 0.36 | 900 | 13.21 | 0.92 |
| 253 | 9.58 | 0.72 | 577 | 13.43 | 1.86 | 901 | 12.17 | 0.54 |
| 254 | 11.82 | 1.62 | 578 | 12.13 | 1.20 | 902 | 12.13 | 0.76 |
| 255 | 11.11 | 0.81 | 579 | 12.22 | 1.68 | 903 | 13.01 | 1.08 |
| 256 | 11.66 | 1.22 | 580 | 11.81 | 0.48 | 904 | 10.22 | 0.71 |
| 257 | 12.94 | 0.51 | 581 | 12.83 | 1.13 | 905 | 12.61 | 0.12 |
| 258 | 8.34 | -0.07 | 582 | 13.40 | 1.18 | 906 | 12.06 | 1.23 |
| 259 | 12.26 | 0.24 | 583 | 12.56 | 0.68 | 907 | 13.21 | 0.37 |
| 260 | 12.71 | 0.01 | 584 | 12.49 | 0.62 | 908 | 12.44 | 0.47 |
| 261 | 10.37 | 0.27 | 585 | 12.39 | 0.94 | 909 | 11.49 | 0.01 |
| 262 | 12.78 | 1.00 | 586 | 12.35 | 0.44 | 910 | 11.67 | 0.27 |
| 263 | 13.56 | 1.12 | 587 | 12.46 | 0.44 | 911 | 13.37 | 1.04 |
| 264 | 12.34 | 0.14 | 588 | 9.62 | 0.89 | 912 | 11.79 | 0.53 |
| 265 | 12.49 | 0.98 | 589 | 12.50 | 0.84 | 913 | 8.39 | 1.22 |
| 266 | 13.59 | 0.97 | 590 | 12.42 | 0.47 | 914 | 13.07 | 0.47 |
| 267 | 12.44 | 0.48 | 591 | 13.27 | 1.19 | 915 | 12.09 | 1.07 |
| 268 | 10.16 | 0.82 | 592 | 12.12 | 0.33 | 916 | 12.86 | 0.81 |
| 269 | 13.50 | 0.97 | 593 | 13.55 | 1.23 | 917 | 12.86 | 1.41 |
| 270 | 12.90 | 0.79 | 594 | 10.74 | 0.88 | 918 | 12.79 | 0.61 |
| 271 | 12.50 | 0.99 | 595 | 10.86 | 1.01 | 919 | 11.16 | 1.54 |
| 272 | 11.16 | 1.33 | 596 | 13.03 | 1.15 | 920 | 12.55 | 1.44 |
| 273 | 12.11 | 0.23 | 597 | 11.07 | 1.33 | 921 | 12.11 | 1.62 |
| 274 | 12.45 | 0.53 | 598 | 13.01 | 0.42 | 922 | 12.22 | 0.70 |
| 275 | 12.32 | 0.79 | 599 | 13.38 | 0.54 | 923 | 13.29 | 0.40 |
| 276 | 11.42 | 0.77 | 600 | 13.10 | 0.55 | 924 | 13.37 | 1.05 |
| 277 | 12.00 | 0.57 | 601 | 11.94 | 0.64 | 925 | 7.83 | 1.05 |
| 278 | 12.02 | 1.27 | 602 | 12.09 | 0.63 | 926 | 9.40 | 0.57 |
| 279 | 12.70 | 0.27 | 603 | 12.00 | 0.86 | 927 | 10.88 | 1.19 |
| 280 | 11.49 | 1.10 | 604 | 13.01 | 1.09 | 928 | 12.98 | 1.52 |
| 281 | 12.13 | 0.96 | 605 | 10.95 | 1.34 | 929 | 10.34 | 0.95 |
| 282 | 11.80 | 0.87 | 606 | 10.61 | 1.03 | 930 | 11.80 | 0.79 |
| 283 | 9.76 | 1.85 | 607 | 11.01 | 0.43 | 931 | 12.23 | 0.91 |
| 284 | 12.05 | 1.67 | 608 | 12.49 | 1.44 | 932 | 11.47 | 1.34 |
| 285 | 12.07 | 0.89 | 609 | 12.03 | 1.37 | 933 | 11.96 | 1.46 |
| 286 | 12.21 | 1.29 | 610 | 12.38 | 1.40 | 934 | 12.88 | 0.63 |
| 287 | 10.15 | 1.21 | 611 | 10.77 | 1.53 | 935 | 10.85 | 0.20 |
| 288 | 12.13 | 0.50 | 612 | 10.08 | 0.66 | 936 | 10.76 | 0.86 |
| 289 | 11.30 | 1.64 | 613 | 12.93 | 0.62 | 937 | 13.14 | 0.45 |
| 290 | 11.89 | 0.26 | 614 | 10.89 | 1.15 | 938 | 11.72 | 0.98 |
| 291 | 10.96 | 1.24 | 615 | 11.82 | 1.36 | 939 | 12.48 | 1.16 |
| 292 | 11.42 | 1.45 | 616 | 10.44 | 1.09 | 940 | 9.66 | 0.59 |
| 293 | 12.50 | 0.91 | 617 | 13.27 | 1.53 | 941 | 11.83 | 1.28 |
| 294 | 11.68 | 1.73 | 618 | 10.74 | 0.28 | 942 | 10.73 | 0.52 |
| 295 | 12.57 | 0.55 | 619 | 9.12 | 0.61 | 943 | 12.69 | 0.89 |
| 296 | 10.01 | 0.03 | 620 | 11.67 | 0.66 | 944 | 12.14 | 0.97 |
| 297 | 12.88 | 0.37 | 621 | 7.64 | 0.58 | 945 | 11.16 | 0.15 |
| 298 | 13.26 | 1.01 | 622 | 12.64 | 0.77 | 946 | 13.13 | 1.71 |
| 299 | 12.71 | 0.89 | 623 | 13.07 | -0.15 | 947 | 12.13 | 0.42 |
| 300 | 12.86 | 1.30 | 624 | 7.25 | 0.75 | 948 | 11.75 | 0.30 |

Table 6. (continued)

| No | V | B-V | No | V | B-V | No | V | B-V |
|-----|-------|-------|-----|-------|------|-----|-------|------|
| 301 | 11.98 | -0.05 | 625 | 11.94 | 1.36 | 949 | 12.44 | 0.47 |
| 302 | 11.07 | 0.01 | 626 | 12.20 | 0.91 | 950 | 12.52 | 1.51 |
| 303 | 10.34 | 1.04 | 627 | 8.48 | 1.18 | 951 | 13.00 | 0.36 |
| 304 | 12.14 | 1.10 | 628 | 10.24 | 1.64 | 952 | 11.14 | 0.59 |
| 305 | 8.73 | 1.68 | 629 | 10.07 | 0.14 | 953 | 11.66 | 0.21 |
| 306 | 12.14 | 1.42 | 630 | 11.45 | 0.34 | 954 | 12.84 | 1.38 |
| 307 | 11.23 | 0.53 | 631 | 12.30 | 0.92 | 955 | 11.90 | 1.24 |
| 308 | 12.09 | 0.83 | 632 | 8.30 | 1.26 | 956 | 12.80 | 0.92 |
| 309 | 11.20 | 0.17 | 633 | 12.96 | 0.53 | 957 | 11.22 | 1.46 |
| 310 | 11.55 | 0.59 | 634 | 12.36 | 1.44 | 958 | 11.25 | 0.33 |
| 311 | 12.26 | 0.60 | 635 | 12.71 | 0.42 | 959 | 12.56 | 1.03 |
| 312 | 12.50 | 0.57 | 636 | 10.29 | 0.55 | 960 | 11.44 | 0.18 |
| 313 | 13.34 | 0.80 | 637 | 9.03 | 0.43 | 961 | 12.22 | 1.07 |
| 314 | 12.36 | 1.57 | 638 | 12.59 | 0.81 | 962 | 12.88 | 1.93 |
| 315 | 13.55 | 0.38 | 639 | 12.96 | 0.85 | 963 | 12.22 | 0.80 |
| 316 | 12.82 | 0.88 | 640 | 8.85 | 1.00 | 964 | 13.16 | 0.04 |
| 317 | 12.54 | 0.99 | 641 | 12.87 | 1.87 | 965 | 12.43 | 1.53 |
| 318 | 12.40 | 0.49 | 642 | 11.97 | 1.53 | 966 | 12.32 | 0.34 |
| 319 | 10.90 | 0.24 | 643 | 10.17 | 1.68 | 967 | 11.20 | 0.81 |
| 320 | 11.48 | 1.51 | 644 | 11.96 | 1.00 | 968 | 12.24 | 0.56 |
| 321 | 11.13 | 1.24 | 645 | 9.53 | 1.55 | 969 | 13.03 | 1.68 |
| 322 | 12.64 | 0.75 | 646 | 12.20 | 0.56 | 970 | 10.65 | 0.38 |
| 323 | 11.06 | 0.90 | 647 | 9.26 | 1.05 | | | |
| 324 | 12.02 | 0.28 | 648 | 11.07 | 0.80 | | | |

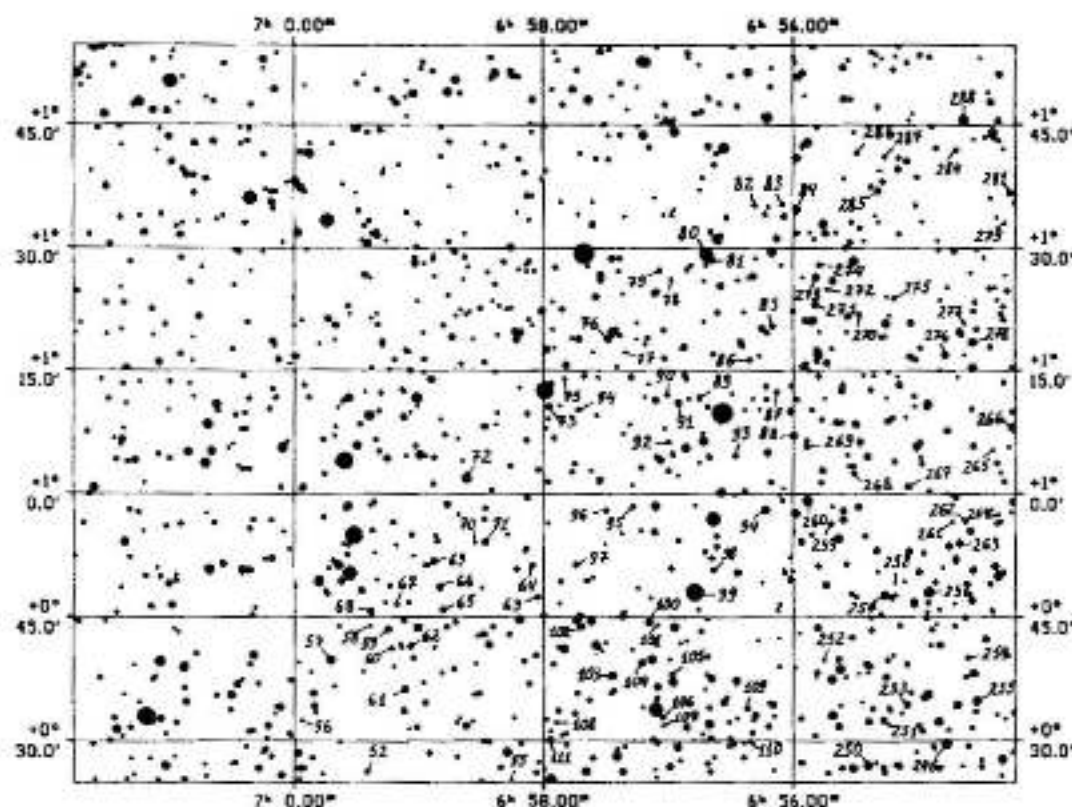


Fig. 47: KA-98, fragment 1

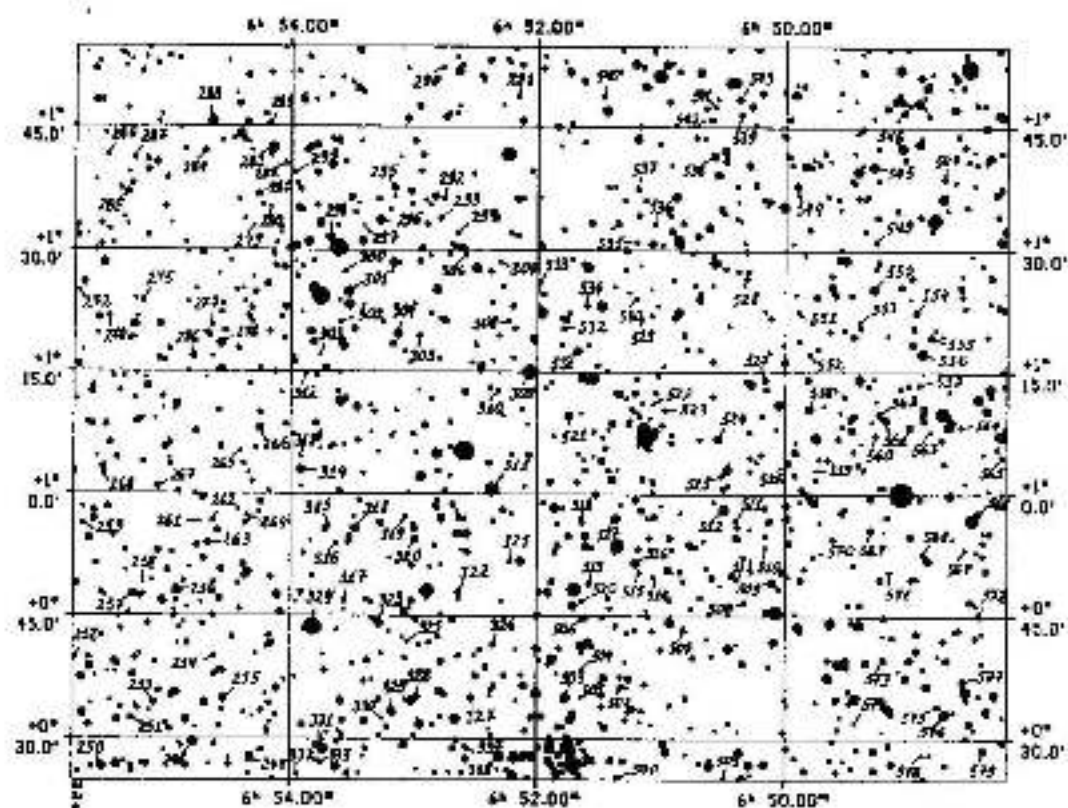


Fig. 48: KA-98, fragment 2

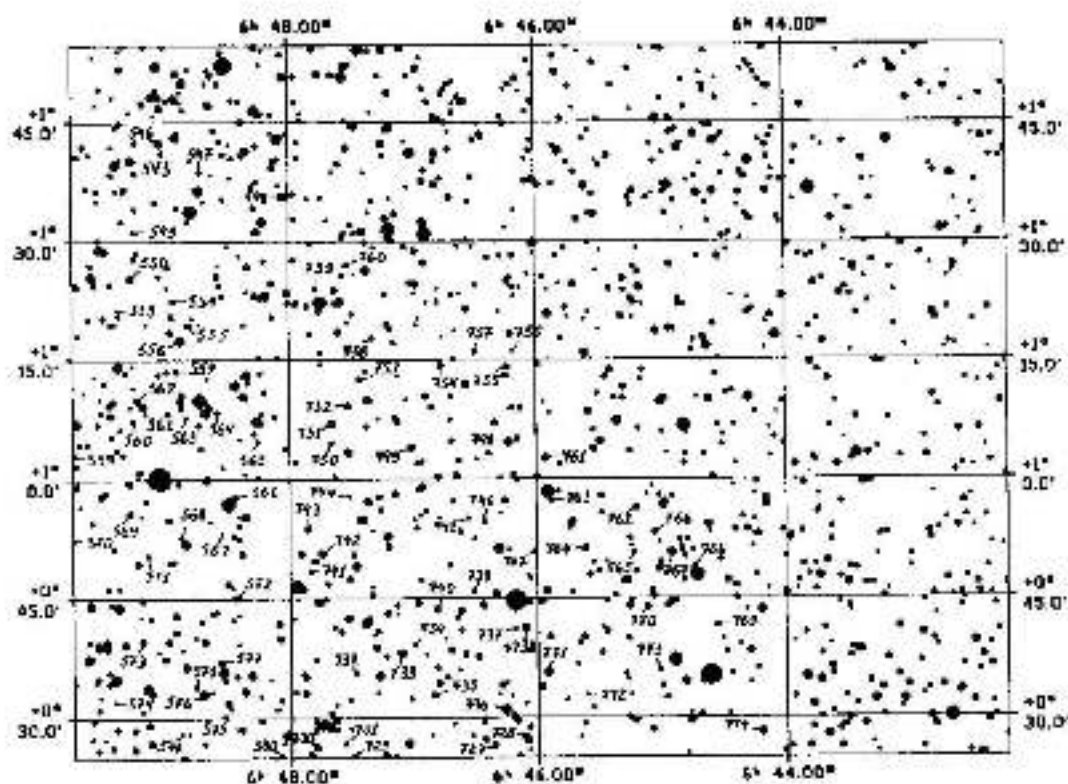


Fig. 49: KA-98, fragment 3

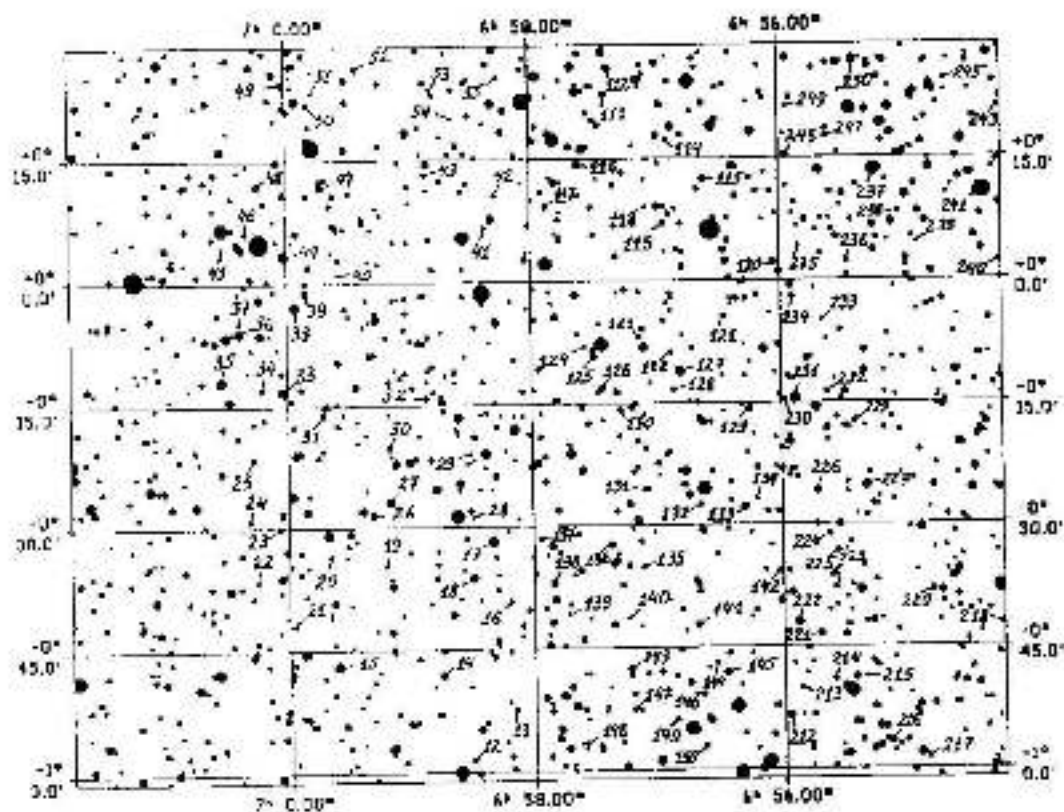


Fig. 30. KA-98, fragment 4

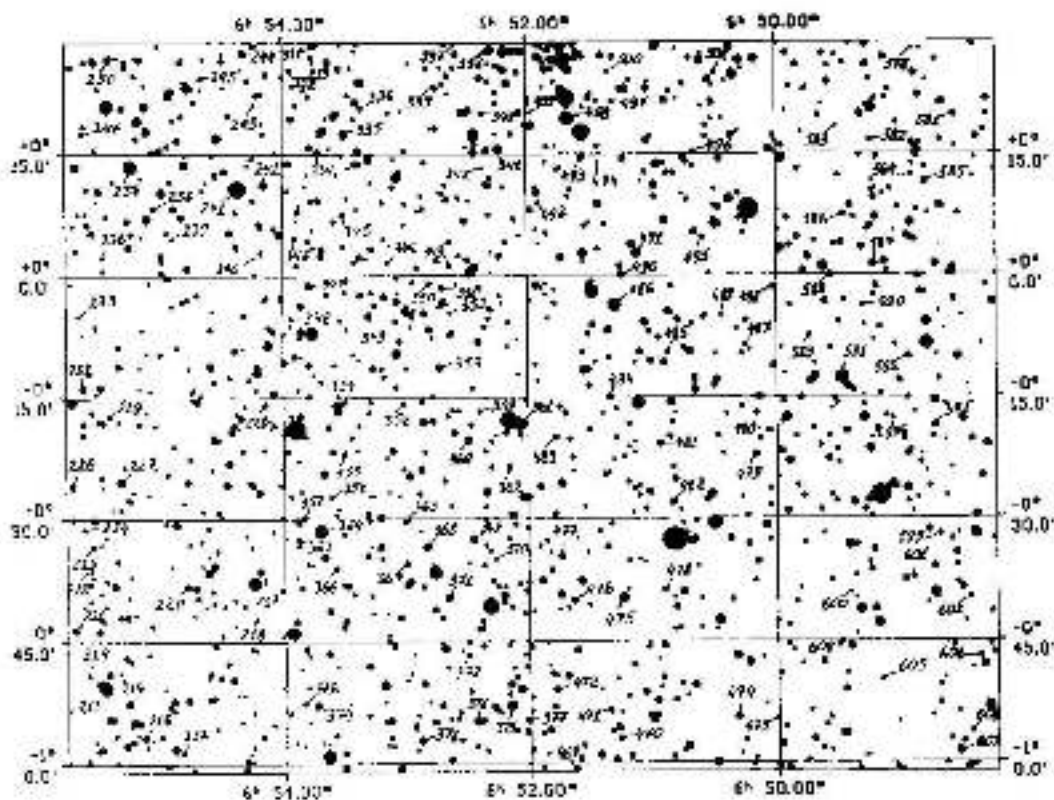


Fig. 31. KA-98, fragment 5

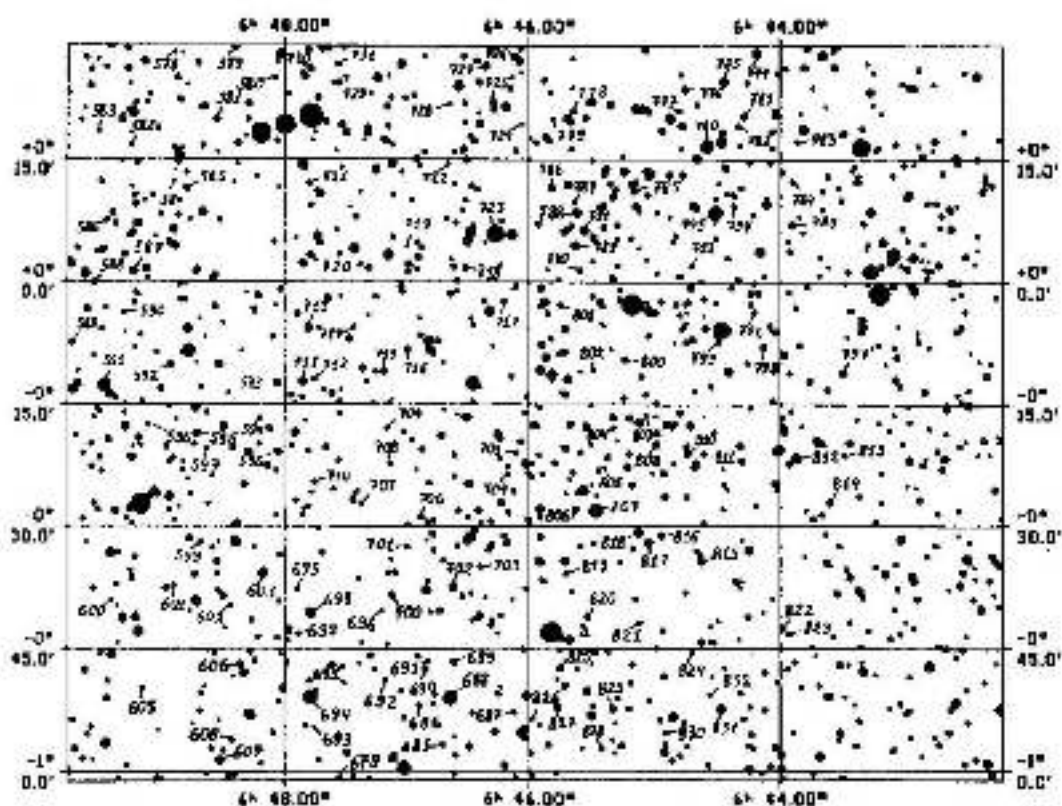


Fig. 52 KA-98, fragment 6

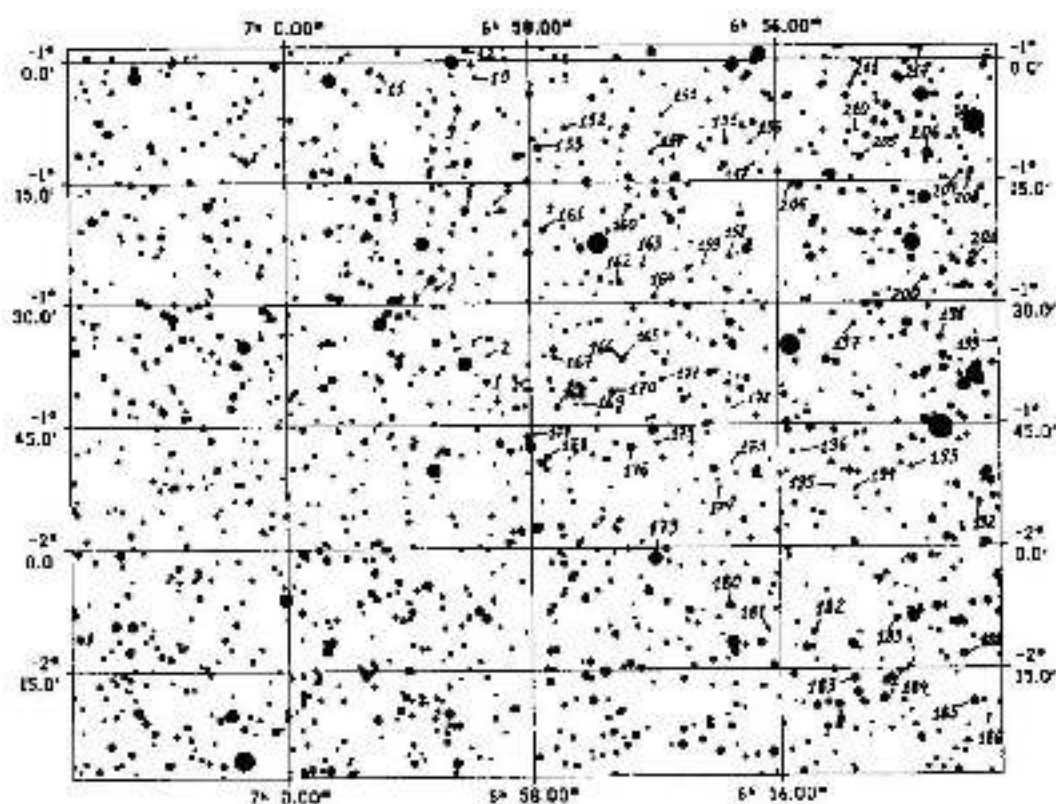


Fig. 53: KA-98, fragment 7

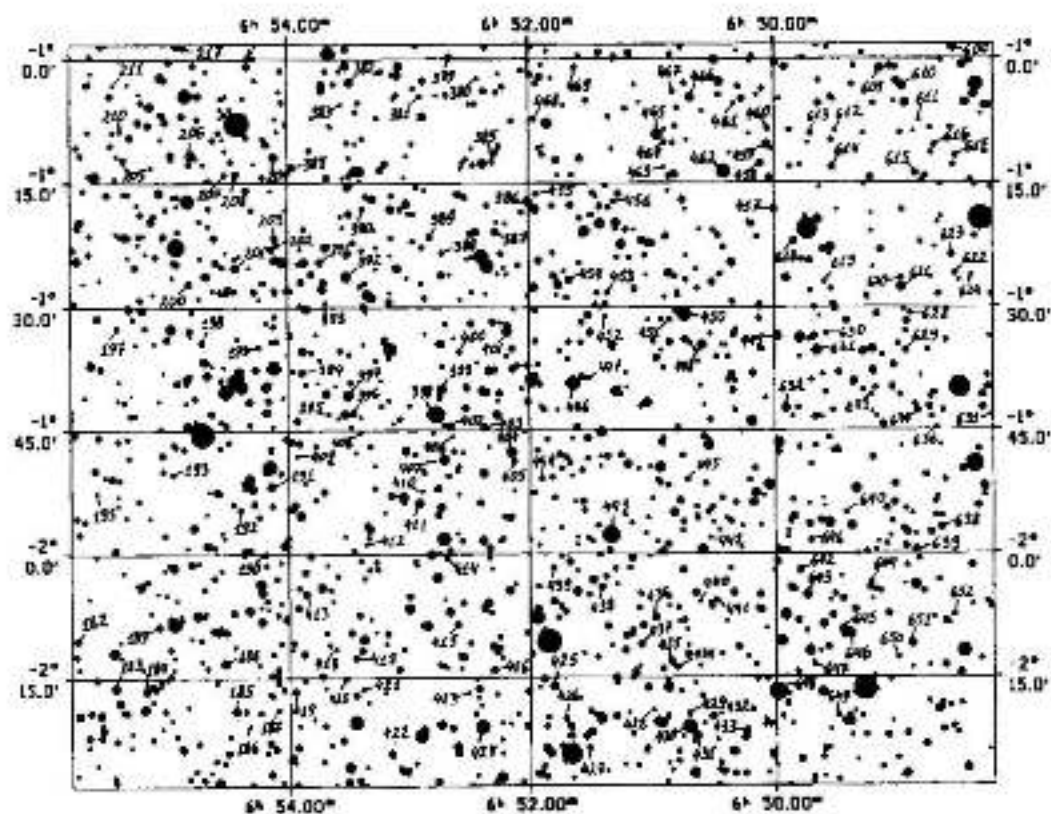


Fig. 54: KA-98, fragment 8

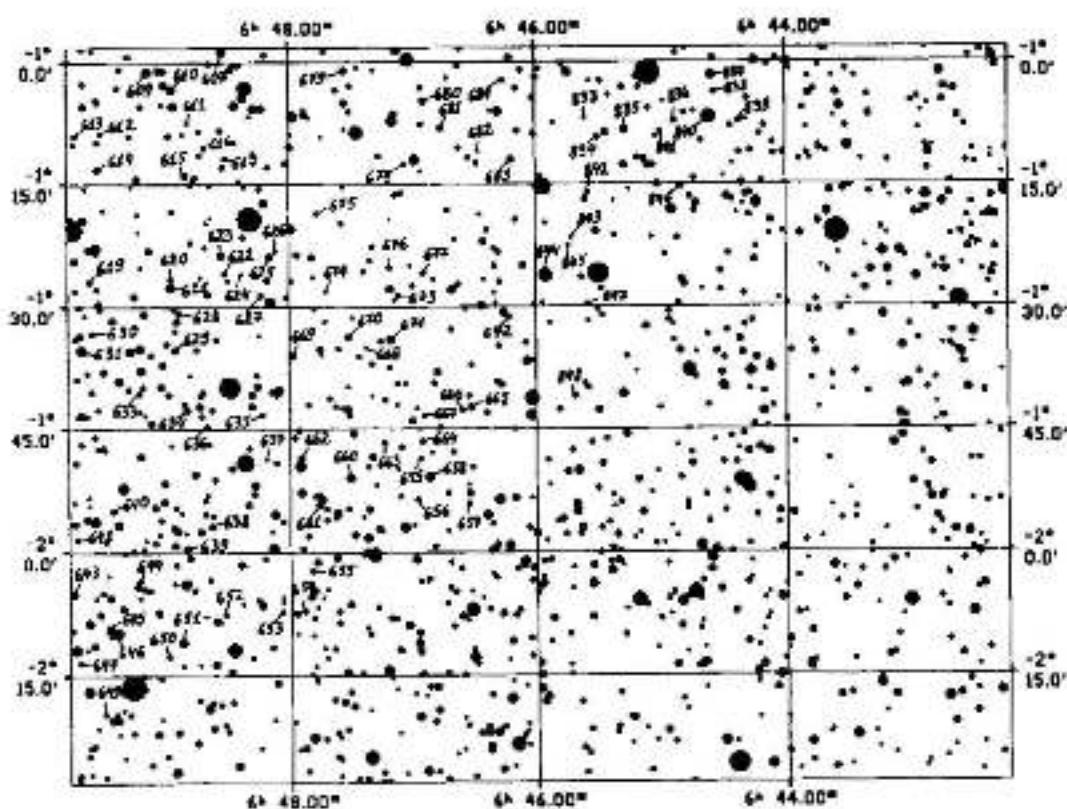


Fig. 55: KA-98, fragment 9

Table 7. Kapteyn area KA-98: magnitudes and color indices of stars

| No | V | B-V | No | V | B-V | No | V | B-V |
|----|-------|-------|-----|-------|-------|-----|-------|------|
| 1 | 13.39 | -0.39 | 284 | 12.63 | 0.64 | 567 | 13.31 | 0.43 |
| 2 | 13.32 | -0.02 | 285 | 11.29 | 1.65 | 568 | 13.08 | 0.08 |
| 3 | 12.53 | -0.09 | 286 | 12.28 | 0.28 | 569 | 11.54 | 0.71 |
| 4 | 11.36 | -0.38 | 287 | 12.73 | 0.68 | 570 | 13.48 | 0.45 |
| 5 | 11.39 | -0.17 | 288 | 9.49 | 1.02 | 571 | 11.36 | 1.68 |
| 6 | 11.21 | -0.28 | 289 | 13.01 | 0.29 | 572 | 12.13 | 0.16 |
| 7 | 13.62 | 0.28 | 290 | 12.53 | 1.03 | 573 | 11.21 | 0.66 |
| 8 | 11.40 | 1.50 | 291 | 13.24 | 0.46 | 574 | 13.14 | 1.01 |
| 9 | 11.55 | -0.40 | 292 | 13.70 | 0.20 | 575 | 12.73 | 0.52 |
| 10 | 12.38 | 0.33 | 293 | 12.64 | 0.24 | 576 | 9.90 | 0.17 |
| 11 | 13.42 | -0.05 | 294 | 13.25 | 0.20 | 577 | 11.24 | 0.76 |
| 12 | 12.61 | 0.33 | 295 | 12.42 | 0.29 | 578 | 13.66 | 0.17 |
| 13 | 12.67 | 0.25 | 296 | 10.90 | 0.63 | 579 | 11.71 | 0.62 |
| 14 | 11.45 | 1.14 | 297 | 13.57 | 0.69 | 580 | 12.95 | 0.31 |
| 15 | 10.11 | -0.14 | 298 | 10.12 | 0.84 | 581 | 12.03 | 0.47 |
| 16 | 13.11 | 0.42 | 299 | 13.21 | 1.06 | 582 | 12.97 | 0.14 |
| 17 | 10.07 | -0.42 | 300 | 13.47 | -0.17 | 583 | 13.48 | 0.26 |
| 18 | 10.59 | 0.16 | 301 | 9.58 | 0.54 | 584 | 13.23 | 0.70 |
| 19 | 12.83 | 0.70 | 302 | 12.42 | 0.34 | 585 | 10.73 | 1.02 |
| 20 | 13.12 | 0.14 | 303 | 13.75 | 0.22 | 586 | 13.58 | 0.22 |
| 21 | 13.30 | 0.48 | 304 | 10.10 | 1.03 | 587 | 10.42 | 0.33 |
| 22 | 13.43 | 0.26 | 305 | 12.81 | 0.38 | 588 | 11.99 | 0.64 |
| 23 | 11.85 | 1.41 | 306 | 13.02 | -0.23 | 589 | 12.37 | 1.25 |
| 24 | 12.88 | -0.06 | 307 | 13.99 | -0.02 | 590 | 12.68 | 0.11 |
| 25 | 12.85 | 0.70 | 308 | 12.86 | 0.18 | 591 | 8.96 | 0.07 |
| 26 | 11.83 | 0.36 | 309 | 7.91 | 1.48 | 592 | 11.93 | 0.66 |
| 27 | 10.72 | -0.08 | 310 | 12.89 | 0.04 | 593 | 11.25 | 1.57 |
| 28 | 13.59 | 0.23 | 311 | 7.84 | 1.15 | 594 | 12.46 | 1.37 |
| 29 | 13.17 | 0.53 | 312 | 12.46 | 0.88 | 595 | 11.43 | 0.25 |
| 30 | 12.46 | -0.21 | 313 | 13.44 | -0.17 | 596 | 13.50 | 0.25 |
| 31 | 11.17 | 0.14 | 314 | 9.98 | 1.28 | 597 | 13.86 | 0.28 |
| 32 | 12.75 | 0.10 | 315 | 11.37 | 0.46 | 598 | 12.25 | 0.58 |
| 33 | 10.62 | -0.31 | 316 | 13.81 | 0.47 | 599 | 12.28 | 1.21 |
| 34 | 13.02 | 0.25 | 317 | 13.30 | 0.14 | 600 | 13.42 | 0.22 |
| 35 | 10.22 | 0.11 | 318 | 10.57 | 0.67 | 601 | 12.81 | 0.31 |
| 36 | 10.86 | -0.15 | 319 | 11.56 | 1.06 | 602 | 12.86 | 0.18 |
| 37 | 13.51 | 0.47 | 320 | 11.82 | 0.56 | 603 | 10.06 | 0.15 |
| 38 | 9.08 | 0.69 | 321 | 13.41 | 0.41 | 604 | 12.54 | 0.63 |
| 39 | 12.06 | -0.13 | 322 | 12.71 | 0.25 | 605 | 12.42 | 0.21 |
| 40 | 13.68 | 0.20 | 323 | 9.97 | 0.60 | 606 | 12.25 | 0.21 |
| 41 | 13.79 | 0.14 | 324 | 8.14 | 0.29 | 607 | 9.95 | 1.03 |
| 42 | 12.66 | 0.96 | 325 | 13.43 | 0.49 | 608 | 12.53 | 0.35 |
| 43 | 12.76 | 0.27 | 326 | 13.31 | 0.03 | 609 | 10.64 | 0.98 |
| 44 | 9.71 | -0.08 | 327 | 11.16 | 0.84 | 610 | 10.27 | 0.52 |
| 45 | 13.92 | 0.10 | 328 | 11.86 | 0.72 | 611 | 13.55 | 0.45 |
| 46 | 13.21 | -0.09 | 329 | 9.77 | 1.57 | 612 | 13.81 | 0.04 |
| 47 | 11.88 | -0.10 | 330 | 13.80 | 0.80 | 613 | 13.17 | 0.17 |
| 48 | 11.47 | 0.90 | 331 | 10.07 | 0.25 | 614 | 12.03 | 0.17 |
| 49 | 12.25 | 0.32 | 332 | 12.49 | 0.41 | 615 | 11.72 | 0.14 |
| 50 | 13.04 | 0.58 | 333 | 11.95 | 0.66 | 616 | 12.71 | 0.35 |
| 51 | 13.37 | 0.18 | 334 | 11.57 | 0.55 | 617 | 13.11 | 0.29 |
| 52 | 12.89 | 0.59 | 335 | 8.99 | 0.81 | 618 | 11.53 | 0.63 |
| 53 | 13.60 | 0.00 | 336 | 12.04 | 0.57 | 619 | 13.22 | 0.30 |
| 54 | 13.42 | 0.32 | 337 | 13.27 | -0.03 | 620 | 13.00 | 0.45 |
| 55 | 12.46 | 1.54 | 338 | 8.71 | 1.02 | 621 | 10.91 | 0.64 |
| 56 | 12.51 | 1.63 | 339 | 11.06 | 0.52 | 622 | 13.37 | 0.13 |

Table 7. (continued)

| No | V | B-V | No | V | B-V | No | V | B-V |
|-----|-------|-------|-----|-------|-------|-----|-------|-------|
| 57 | 11.49 | -0.10 | 340 | 12.69 | 0.29 | 623 | 12.46 | 0.38 |
| 58 | 13.45 | 0.48 | 341 | 10.14 | 0.67 | 624 | 13.65 | 0.39 |
| 59 | 11.60 | 0.08 | 342 | 12.89 | 1.22 | 625 | 12.25 | 0.24 |
| 60 | 13.39 | -0.18 | 343 | 12.14 | 0.24 | 626 | 13.68 | 0.23 |
| 61 | 11.65 | -0.11 | 344 | 11.80 | 0.36 | 627 | 12.45 | 1.21 |
| 62 | 12.60 | -0.11 | 345 | 12.78 | 0.17 | 628 | 12.78 | 0.40 |
| 63 | 13.00 | -0.05 | 346 | 11.07 | 0.53 | 629 | 11.64 | 0.29 |
| 64 | 12.28 | 1.25 | 347 | 11.09 | 0.16 | 630 | 13.44 | 0.25 |
| 65 | 11.92 | 0.42 | 348 | 13.50 | -0.14 | 631 | 9.95 | -0.06 |
| 66 | 12.38 | -0.10 | 349 | 11.08 | 0.79 | 632 | 11.20 | 0.34 |
| 67 | 12.80 | 0.34 | 350 | 13.94 | -0.03 | 633 | 12.77 | 0.39 |
| 68 | 11.57 | 0.00 | 351 | 11.12 | 0.47 | 634 | 11.44 | 1.17 |
| 69 | 12.29 | 0.01 | 352 | 13.19 | 0.32 | 635 | 12.51 | 0.04 |
| 70 | 12.36 | 2.11 | 353 | 11.22 | 0.67 | 636 | 13.93 | 0.59 |
| 71 | 11.41 | 0.93 | 354 | 9.85 | 1.65 | 637 | 13.63 | 0.42 |
| 72 | 9.27 | 0.84 | 355 | 11.73 | 0.31 | 638 | 12.36 | 0.40 |
| 73 | 11.69 | 0.25 | 356 | 12.79 | 0.28 | 639 | 12.42 | 0.05 |
| 74 | 12.77 | 0.48 | 357 | 11.25 | 1.92 | 640 | 12.40 | 1.38 |
| 75 | 13.53 | 0.28 | 358 | 12.08 | 0.01 | 641 | 13.49 | 0.29 |
| 76 | 10.78 | 1.47 | 359 | 13.60 | 0.81 | 642 | 12.19 | -0.03 |
| 77 | 13.53 | 0.31 | 360 | 11.33 | 0.29 | 643 | 11.95 | -0.36 |
| 78 | 13.50 | 0.29 | 361 | 9.42 | -0.11 | 644 | 13.30 | 0.24 |
| 79 | 12.25 | 1.31 | 362 | 12.79 | 0.02 | 645 | 11.02 | -0.23 |
| 80 | 9.08 | -0.35 | 363 | 12.86 | 0.03 | 646 | 10.45 | -0.35 |
| 81 | 11.48 | 0.39 | 364 | 8.87 | 1.00 | 647 | 12.41 | 0.84 |
| 82 | 12.49 | 0.18 | 365 | 12.30 | 1.19 | 648 | 9.08 | -0.63 |
| 83 | 12.40 | 0.25 | 366 | 13.21 | 0.30 | 649 | 13.18 | 0.56 |
| 84 | 9.67 | 1.59 | 367 | 11.75 | 0.21 | 650 | 12.99 | -0.09 |
| 85 | 11.87 | 0.97 | 368 | 10.20 | 0.12 | 651 | 11.52 | -0.15 |
| 86 | 12.43 | 0.32 | 369 | 10.80 | 0.48 | 652 | 12.63 | 0.67 |
| 87 | 12.90 | -0.10 | 370 | 13.28 | 0.50 | 653 | 13.23 | 0.19 |
| 88 | 10.78 | 1.07 | 371 | 10.65 | 1.33 | 654 | 13.00 | 0.90 |
| 89 | 11.73 | 1.41 | 372 | 13.65 | -0.10 | 655 | 13.02 | 0.39 |
| 90 | 12.95 | 0.35 | 373 | 13.04 | 0.73 | 656 | 12.49 | 1.24 |
| 91 | 11.62 | 0.16 | 374 | 10.58 | 1.09 | 657 | 12.34 | 1.07 |
| 92 | 13.12 | 0.02 | 375 | 9.96 | 0.23 | 658 | 11.03 | 0.04 |
| 93 | 12.84 | 0.30 | 376 | 10.41 | 1.54 | 659 | 12.93 | 0.56 |
| 94 | 10.79 | -0.04 | 377 | 13.48 | 0.24 | 660 | 11.18 | 0.35 |
| 95 | 12.40 | 0.32 | 378 | 11.50 | 0.16 | 661 | 11.87 | 0.43 |
| 96 | 13.02 | -0.21 | 379 | 12.47 | 0.02 | 662 | 11.75 | 1.12 |
| 97 | 12.79 | 0.27 | 380 | 13.26 | 0.01 | 663 | 13.20 | 0.14 |
| 98 | 12.65 | 0.17 | 381 | 12.00 | 0.22 | 664 | 12.84 | 0.19 |
| 99 | 7.68 | 1.51 | 382 | 11.29 | 0.10 | 665 | 11.25 | 0.79 |
| 100 | 11.49 | 1.21 | 383 | 13.63 | 0.11 | 666 | 12.75 | 0.03 |
| 101 | 13.13 | 0.98 | 384 | 11.25 | 0.31 | 667 | 13.27 | 0.22 |
| 102 | 11.09 | 1.60 | 385 | 12.60 | 0.28 | 668 | 13.61 | 0.57 |
| 103 | 11.63 | -0.26 | 386 | 9.63 | 1.83 | 669 | 12.26 | 0.36 |
| 104 | 11.78 | 0.17 | 387 | 11.22 | 0.27 | 670 | 11.63 | 0.66 |
| 105 | 12.58 | 0.41 | 388 | 13.56 | 0.30 | 671 | 11.02 | -0.05 |
| 106 | 13.18 | -0.06 | 389 | 11.59 | 0.11 | 672 | 12.40 | 1.01 |
| 107 | 13.17 | 0.52 | 390 | 13.46 | -0.01 | 673 | 13.00 | -0.15 |
| 108 | 13.57 | 0.16 | 391 | 12.80 | 0.01 | 674 | 13.71 | 0.52 |
| 109 | 11.82 | 1.19 | 392 | 9.94 | 1.08 | 675 | 13.50 | 0.21 |
| 110 | 13.48 | 0.28 | 393 | 13.12 | 0.22 | 676 | 12.32 | 1.32 |
| 111 | 11.92 | 0.09 | 394 | 12.66 | -0.17 | 677 | 12.57 | 0.32 |
| 112 | 11.93 | -0.04 | 395 | 13.73 | 0.66 | 678 | 13.10 | -0.17 |
| 113 | 12.12 | -0.03 | 396 | 11.11 | 1.00 | 679 | 12.69 | -0.01 |
| 114 | 12.40 | 0.57 | 397 | 10.10 | -0.13 | 680 | 12.31 | 0.17 |

Table 7. (continued)

| No | V | B-V | No | V | B-V | No | V | B-V |
|-----|-------|-------|-----|-------|-------|-----|-------|-------|
| 115 | 11.52 | 1.14 | 398 | 8.86 | -0.24 | 681 | 12.46 | 0.30 |
| 116 | 12.13 | 0.04 | 399 | 10.71 | 0.57 | 682 | 13.29 | 0.70 |
| 117 | 12.02 | 0.30 | 400 | 13.44 | -0.04 | 683 | 11.73 | 0.24 |
| 118 | 13.71 | 0.24 | 401 | 9.87 | 0.07 | 684 | 12.49 | 0.28 |
| 119 | 12.10 | 1.09 | 402 | 12.02 | 0.00 | 685 | 12.23 | 0.38 |
| 120 | 12.18 | 0.13 | 403 | 11.92 | 0.08 | 686 | 13.00 | 0.45 |
| 121 | 13.27 | -0.16 | 404 | 10.21 | 0.41 | 687 | 12.88 | -0.01 |
| 122 | 13.05 | 0.12 | 405 | 13.13 | -0.18 | 688 | 9.40 | 0.32 |
| 123 | 13.13 | 0.19 | 406 | 12.96 | 0.54 | 689 | 11.57 | 0.99 |
| 124 | 13.47 | 0.10 | 407 | 10.56 | 0.47 | 690 | 12.41 | 0.28 |
| 125 | 11.58 | 0.36 | 408 | 13.33 | 1.07 | 691 | 13.76 | 0.17 |
| 126 | 12.20 | -0.20 | 409 | 12.29 | 1.11 | 692 | 11.63 | 1.72 |
| 127 | 10.20 | -0.15 | 410 | 13.87 | 0.47 | 693 | 13.55 | 0.66 |
| 128 | 13.00 | 0.16 | 411 | 11.40 | 0.12 | 694 | 8.86 | 0.12 |
| 129 | 11.40 | -0.09 | 412 | 12.76 | 0.65 | 695 | 13.45 | 1.60 |
| 130 | 12.51 | 0.46 | 413 | 12.21 | 0.09 | 696 | 13.60 | 0.01 |
| 131 | 11.82 | -0.39 | 414 | 11.95 | 1.14 | 697 | 13.18 | 0.23 |
| 132 | 13.01 | 0.55 | 415 | 11.50 | 0.85 | 698 | 9.05 | 1.01 |
| 133 | 11.75 | 0.39 | 416 | 12.53 | 0.12 | 699 | 12.93 | 0.30 |
| 134 | 13.61 | 0.14 | 417 | 11.60 | -0.07 | 700 | 11.66 | 0.21 |
| 135 | 12.16 | -0.06 | 418 | 13.66 | 0.58 | 701 | 12.55 | 0.42 |
| 136 | 11.58 | 1.00 | 419 | 11.63 | -0.32 | 702 | 9.84 | 1.20 |
| 137 | 13.52 | 0.52 | 420 | 12.74 | -0.31 | 703 | 12.51 | 0.54 |
| 138 | 11.26 | 1.22 | 421 | 13.81 | 0.32 | 704 | 13.10 | -0.04 |
| 139 | 13.29 | 0.39 | 422 | 11.80 | 0.63 | 705 | 13.01 | 0.28 |
| 140 | 13.41 | 0.24 | 423 | 13.58 | 0.45 | 706 | 13.48 | 0.38 |
| 141 | 12.56 | -0.03 | 424 | 9.71 | -0.57 | 707 | 13.07 | 0.00 |
| 142 | 12.76 | 0.11 | 425 | 10.78 | 0.51 | 708 | 12.26 | 0.19 |
| 143 | 12.55 | -0.22 | 426 | 12.97 | 0.09 | 709 | 12.58 | 1.23 |
| 144 | 13.53 | 0.54 | 427 | 13.09 | 0.21 | 710 | 13.58 | -0.19 |
| 145 | 11.94 | 0.64 | 428 | 13.99 | 0.38 | 711 | 10.71 | 0.79 |
| 146 | 12.51 | 1.77 | 429 | 11.83 | 0.97 | 712 | 12.56 | 0.29 |
| 147 | 12.71 | 0.24 | 430 | 10.33 | -0.69 | 713 | 10.99 | 0.49 |
| 148 | 13.52 | 0.32 | 431 | 11.11 | -0.19 | 714 | 12.63 | 0.16 |
| 149 | 12.98 | -0.26 | 432 | 12.31 | -0.40 | 715 | 11.95 | 0.48 |
| 150 | 13.27 | -0.20 | 433 | 11.50 | 0.61 | 716 | 11.27 | 0.29 |
| 151 | 13.53 | 0.09 | 434 | 12.41 | 0.92 | 717 | 12.91 | 0.31 |
| 152 | 12.17 | 1.08 | 435 | 12.61 | -0.17 | 718 | 11.72 | 0.10 |
| 153 | 10.41 | 0.19 | 436 | 12.59 | -0.13 | 719 | 12.87 | 1.09 |
| 154 | 12.37 | 0.20 | 437 | 11.09 | 0.81 | 720 | 11.52 | 0.37 |
| 155 | 11.20 | 1.28 | 438 | 12.83 | -0.23 | 721 | 12.16 | 0.29 |
| 156 | 12.87 | 1.27 | 439 | 12.51 | 0.36 | 722 | 13.58 | -0.01 |
| 157 | 13.64 | 0.18 | 440 | 13.60 | 0.24 | 723 | 8.83 | 0.10 |
| 158 | 12.68 | 0.16 | 441 | 11.88 | 0.76 | 724 | 13.25 | 0.84 |
| 159 | 12.96 | 0.64 | 442 | 13.16 | 1.51 | 725 | 12.47 | 0.13 |
| 160 | 12.62 | 0.05 | 443 | 8.52 | -0.20 | 726 | 11.01 | 1.08 |
| 161 | 12.13 | 0.11 | 444 | 12.96 | -0.08 | 727 | 11.24 | 0.69 |
| 162 | 11.30 | 0.30 | 445 | 11.84 | 1.05 | 728 | 13.15 | 0.53 |
| 163 | 12.26 | 0.11 | 446 | 9.09 | -0.10 | 729 | 13.27 | 0.99 |
| 164 | 13.28 | -0.03 | 447 | 13.96 | 0.36 | 730 | 11.79 | 0.36 |
| 165 | 13.33 | 0.11 | 448 | 10.82 | -0.12 | 731 | 12.55 | 0.27 |
| 166 | 12.09 | -0.30 | 449 | 10.77 | 0.07 | 732 | 12.28 | 0.64 |
| 167 | 12.93 | 0.18 | 450 | 9.24 | -0.08 | 733 | 10.32 | 0.70 |
| 168 | 12.12 | -0.13 | 451 | 12.31 | 0.62 | 734 | 12.52 | -0.07 |
| 169 | 13.08 | 0.61 | 452 | 13.59 | 0.21 | 735 | 12.53 | 0.32 |
| 170 | 11.61 | -0.31 | 453 | 13.55 | 0.44 | 736 | 10.01 | 0.49 |
| 171 | 12.04 | 0.47 | 454 | 11.52 | 0.61 | 737 | 12.52 | 0.81 |
| 172 | 13.34 | 0.02 | 455 | 13.59 | 0.42 | 738 | 10.90 | 0.55 |

Table 7. (continued)

| No | V | B-V | No | V | B-V | No | V | B-V |
|-----|-------|-------|-----|-------|------|-----|-------|-------|
| 173 | 13.51 | 0.14 | 456 | 12.96 | 0.13 | 739 | 13.32 | 0.47 |
| 174 | 13.60 | 0.24 | 457 | 11.40 | 0.02 | 740 | 11.41 | 1.06 |
| 175 | 12.40 | 0.01 | 458 | 10.44 | 1.21 | 741 | 12.80 | 0.32 |
| 176 | 11.20 | -0.52 | 459 | 10.28 | 1.37 | 742 | 10.98 | 0.66 |
| 177 | 13.57 | -0.33 | 460 | 12.61 | 0.79 | 743 | 11.31 | 0.71 |
| 178 | 12.23 | -0.21 | 461 | 13.89 | 0.33 | 744 | 12.99 | 1.77 |
| 179 | 9.82 | -0.56 | 462 | 9.40 | 0.33 | 745 | 12.58 | 1.50 |
| 180 | 11.59 | -0.36 | 463 | 13.46 | 0.11 | 746 | 13.16 | 0.11 |
| 181 | 13.03 | 0.46 | 464 | 13.08 | 0.49 | 747 | 12.65 | 0.30 |
| 182 | 11.61 | -0.41 | 465 | 9.66 | 0.18 | 748 | 11.32 | 0.39 |
| 183 | 11.37 | 0.06 | 466 | 10.98 | 0.33 | 749 | 11.81 | 0.42 |
| 184 | 12.71 | 0.14 | 467 | 13.07 | 0.16 | 750 | 13.74 | 0.13 |
| 185 | 11.37 | 0.78 | 468 | 12.04 | 0.03 | 751 | 11.27 | 0.26 |
| 186 | 0.53 | | 469 | 12.49 | 0.41 | 752 | 12.01 | 0.49 |
| 187 | 13.28 | 0.53 | 470 | 13.13 | 0.35 | 753 | 11.89 | 0.38 |
| 188 | 10.41 | 0.37 | 471 | 10.86 | 0.20 | 754 | 11.98 | 0.05 |
| 189 | 13.05 | 0.07 | 472 | 10.67 | 1.22 | 755 | 11.76 | 0.18 |
| 190 | 13.32 | 0.21 | 473 | 13.03 | 0.22 | 756 | 13.38 | 0.62 |
| 191 | 10.42 | 0.98 | 474 | 10.58 | 1.30 | 757 | 12.86 | 1.00 |
| 192 | 12.37 | 0.07 | 475 | 10.21 | 0.57 | 758 | 12.82 | 0.06 |
| 193 | 13.12 | 0.45 | 476 | 11.07 | 1.87 | 759 | 13.24 | 0.29 |
| 194 | 13.15 | 0.58 | 477 | 12.62 | 0.26 | 760 | 13.50 | -0.05 |
| 195 | 13.69 | 0.34 | 478 | 11.43 | 1.46 | 761 | 11.93 | 0.59 |
| 196 | 13.40 | 0.33 | 479 | 11.66 | 0.51 | 762 | 11.53 | 0.56 |
| 197 | 11.92 | 1.98 | 480 | 12.87 | 0.71 | 763 | 12.69 | 0.71 |
| 198 | 11.51 | 1.08 | 481 | 9.93 | 1.43 | 764 | 12.07 | 0.60 |
| 199 | 13.48 | 0.27 | 482 | 11.36 | 0.24 | 765 | 12.82 | 0.36 |
| 200 | 13.02 | 0.10 | 483 | 12.09 | 0.68 | 766 | 12.14 | 1.15 |
| 201 | 11.26 | 0.18 | 484 | 12.02 | 0.30 | 767 | 10.83 | 1.01 |
| 202 | 12.87 | 0.39 | 485 | 12.58 | 0.52 | 768 | 11.24 | 1.01 |
| 203 | 12.20 | 0.39 | 486 | 9.44 | 0.22 | 769 | 12.63 | 0.03 |
| 204 | 13.63 | 0.67 | 487 | 13.62 | 0.54 | 770 | 12.07 | 0.10 |
| 205 | 11.38 | 0.57 | 488 | 12.32 | 0.00 | 771 | 10.71 | 0.37 |
| 206 | 10.57 | 0.22 | 489 | 13.88 | 0.12 | 772 | 13.55 | 0.19 |
| 207 | 12.62 | 0.40 | 490 | 11.39 | 0.24 | 773 | 12.88 | 0.12 |
| 208 | 12.76 | 1.59 | 491 | 9.64 | 1.31 | 774 | 10.18 | 1.28 |
| 209 | 11.40 | 0.37 | 492 | 12.09 | 1.02 | 775 | 11.29 | 0.34 |
| 210 | 13.61 | 0.20 | 493 | 12.11 | 0.61 | 776 | 11.29 | 0.75 |
| 211 | 13.28 | 0.45 | 494 | 13.35 | 0.54 | 777 | 13.90 | 0.10 |
| 212 | 11.34 | 0.08 | 495 | 12.29 | 0.63 | 778 | 12.79 | 0.40 |
| 213 | 12.71 | 0.06 | 496 | 11.95 | 1.72 | 779 | 13.58 | -0.21 |
| 214 | 13.11 | -0.04 | 497 | 12.43 | 0.48 | 780 | 8.87 | 0.85 |
| 215 | 13.70 | 0.22 | 498 | 9.03 | 0.02 | 781 | 12.29 | 0.23 |
| 216 | 11.51 | 0.06 | 499 | 12.83 | 0.64 | 782 | 13.06 | 0.37 |
| 217 | 13.00 | -0.18 | 500 | 13.16 | 0.05 | 783 | 12.02 | 1.53 |
| 218 | 13.06 | 0.18 | 501 | 12.89 | 0.18 | 784 | 13.17 | -0.09 |
| 219 | 13.83 | 1.01 | 502 | 13.14 | 0.27 | 785 | 12.01 | 0.36 |
| 220 | 11.76 | 0.73 | 503 | 9.75 | 0.36 | 786 | 11.12 | 1.33 |
| 221 | 11.86 | -0.37 | 504 | 13.14 | 0.44 | 787 | 13.64 | 0.10 |
| 222 | 11.43 | -0.20 | 505 | 11.50 | 0.21 | 788 | 10.41 | 0.51 |
| 223 | 13.26 | 0.04 | 506 | 11.69 | 0.49 | 789 | 10.53 | 0.25 |
| 224 | 12.76 | -0.14 | 507 | 11.11 | 0.34 | 790 | 12.77 | 0.42 |
| 225 | 12.94 | -0.17 | 508 | 12.81 | 1.10 | 791 | 10.94 | 0.68 |
| 226 | 11.35 | 1.40 | 509 | 10.15 | 0.37 | 792 | 12.65 | 0.36 |
| 227 | 10.61 | 0.34 | 510 | 13.83 | 0.24 | 793 | 8.64 | 1.53 |
| 228 | 12.17 | 0.29 | 511 | 12.52 | 0.24 | 794 | 12.89 | -0.05 |
| 229 | 12.88 | 0.31 | 512 | 8.96 | 0.89 | 795 | 11.42 | 0.71 |

Table 7. (continued)

| No | V | B-V | No | V | B-V | No | V | B-V |
|-----|-------|-------|-----|-------|-------|-----|-------|------|
| 230 | 13.67 | 0.27 | 513 | 13.64 | 0.21 | 796 | 12.49 | 0.14 |
| 231 | 10.59 | -0.50 | 514 | 13.51 | 0.39 | 797 | 11.68 | 1.36 |
| 232 | 12.27 | 0.00 | 515 | 11.95 | 0.28 | 798 | 11.36 | 0.72 |
| 233 | 13.10 | 1.29 | 516 | 10.71 | 0.32 | 799 | 10.41 | 0.93 |
| 234 | 13.03 | 0.58 | 517 | 11.28 | 0.14 | 800 | 11.98 | 0.50 |
| 235 | 13.51 | 0.43 | 518 | 11.24 | 1.14 | 801 | 12.48 | 0.26 |
| 236 | 12.93 | 0.16 | 519 | 12.79 | 0.50 | 802 | 13.37 | 0.39 |
| 237 | 8.74 | 0.89 | 520 | 13.51 | 0.34 | 803 | 13.71 | 0.38 |
| 238 | 13.27 | -0.08 | 521 | 10.29 | 0.20 | 804 | 13.27 | 0.84 |
| 239 | 13.69 | 0.07 | 522 | 13.39 | 0.19 | 805 | 12.97 | 1.07 |
| 240 | 13.34 | 0.52 | 523 | 12.33 | 0.43 | 806 | 11.18 | 1.24 |
| 241 | 8.79 | -0.06 | 524 | 11.11 | 0.04 | 807 | 9.20 | 0.16 |
| 242 | 10.23 | 0.85 | 525 | 12.52 | 0.42 | 808 | 12.00 | 0.21 |
| 243 | 13.38 | 0.27 | 526 | 11.14 | 0.75 | 809 | 11.83 | 0.26 |
| 244 | 10.82 | 0.66 | 527 | 12.30 | 0.00 | 810 | 11.30 | 0.09 |
| 245 | 12.43 | 1.28 | 528 | 12.50 | -0.12 | 811 | 13.54 | 0.25 |
| 246 | 10.25 | 0.12 | 529 | 13.67 | 0.11 | 812 | 10.43 | 0.15 |
| 247 | 12.23 | 0.24 | 530 | 12.61 | 0.01 | 813 | 11.96 | 1.12 |
| 248 | 10.76 | 1.79 | 531 | 10.76 | 0.21 | 814 | 11.93 | 0.12 |
| 249 | 12.99 | 1.03 | 532 | 13.02 | 0.54 | 815 | 11.54 | 0.40 |
| 250 | 11.01 | 0.38 | 533 | 13.24 | 0.38 | 816 | 11.60 | 0.53 |
| 251 | 11.14 | 0.68 | 534 | 13.08 | 0.18 | 817 | 10.90 | 0.27 |
| 252 | 12.77 | 0.92 | 535 | 12.96 | 0.20 | 818 | 10.41 | 1.41 |
| 253 | 11.25 | 0.54 | 536 | 12.93 | -0.06 | 819 | 12.38 | 1.04 |
| 254 | 13.40 | -0.14 | 537 | 13.01 | 0.37 | 820 | 11.71 | 0.63 |
| 255 | 10.67 | 0.51 | 538 | 11.63 | -0.39 | 821 | 12.80 | 0.14 |
| 256 | 9.36 | 0.71 | 539 | 12.85 | 0.02 | 822 | 11.97 | 0.14 |
| 257 | 10.05 | 0.99 | 540 | 12.76 | 0.30 | 823 | 12.18 | 1.19 |
| 258 | 13.51 | -0.10 | 541 | 13.37 | 0.22 | 824 | 13.18 | 0.44 |
| 259 | 12.70 | -0.02 | 542 | 12.49 | 0.05 | 825 | 12.40 | 0.41 |
| 260 | 9.86 | 0.62 | 543 | 11.59 | 0.38 | 826 | 13.61 | 0.25 |
| 261 | 13.29 | 0.28 | 544 | 11.81 | -0.05 | 827 | 11.94 | 0.05 |
| 262 | 12.98 | 0.07 | 545 | 11.49 | -0.27 | 828 | 13.00 | 0.40 |
| 263 | 12.65 | 0.03 | 546 | 11.00 | -0.02 | 829 | 11.51 | 0.09 |
| 264 | 13.49 | -0.01 | 547 | 12.44 | 0.24 | 830 | 13.25 | 0.04 |
| 265 | 13.74 | 0.31 | 548 | 11.07 | 0.40 | 831 | 11.20 | 0.18 |
| 266 | 10.23 | 0.41 | 549 | 13.18 | 0.03 | 832 | 12.67 | 0.44 |
| 267 | 11.84 | 0.48 | 550 | 11.65 | -0.22 | 833 | 13.43 | 0.38 |
| 268 | 11.98 | 1.86 | 551 | 13.05 | -0.05 | 834 | 12.51 | 0.36 |
| 269 | 11.96 | 0.67 | 552 | 13.44 | 0.37 | 835 | 11.55 | 0.87 |
| 270 | 12.39 | 0.61 | 553 | 13.59 | 0.33 | 836 | 12.28 | 0.27 |
| 271 | 12.12 | 0.11 | 554 | 12.33 | 0.35 | 837 | 10.75 | 0.33 |
| 272 | 13.41 | 0.21 | 555 | 10.84 | 1.40 | 838 | 12.75 | 0.21 |
| 273 | 12.64 | 0.00 | 556 | 9.98 | 0.13 | 839 | 13.15 | 0.23 |
| 274 | 12.58 | 0.49 | 557 | 12.69 | -0.03 | 840 | 9.26 | 0.07 |
| 275 | 13.06 | 0.36 | 558 | 10.59 | 0.18 | 841 | 13.49 | 0.82 |
| 276 | 11.90 | 0.45 | 559 | 13.45 | 0.08 | 842 | 12.36 | 1.38 |
| 277 | 13.33 | 0.55 | 560 | 12.27 | 1.90 | 843 | 13.43 | 0.33 |
| 278 | 9.81 | 1.75 | 561 | 10.83 | 0.37 | 844 | 9.57 | 0.00 |
| 279 | 13.39 | 0.62 | 562 | 12.62 | 0.19 | 845 | 13.21 | 0.68 |
| 280 | 13.81 | 0.05 | 563 | 13.68 | 0.11 | 846 | 12.14 | 0.33 |
| 281 | 11.39 | 0.92 | 564 | 11.66 | 1.30 | 847 | 13.32 | 0.24 |
| 282 | 12.71 | 0.17 | 565 | 11.84 | 1.36 | 848 | 13.27 | 0.20 |
| 283 | 10.24 | 0.39 | 566 | 11.65 | 1.16 | | | |