

# RPC-LAP OPERATIONS REPORT PRE-LANDING PHASE

January 21 - November 19, 2014

IRFU-ROS-OPR-PRL  
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## Document history

| Revision | Date       | Comment                                      |
|----------|------------|--|
| 0.1      | 2015-07-07 | Initial revision (AIE)                       |
| 0.1.1    | 2015-07-07 | Minor corrections, incl. two bad dates. (EJ) |

## 1 Introduction

This is the report from the operations of RPC-LAP in the pre-landing phase (PRL) at the target comet 67P/Churyumov-Gerasimenko.

## 2 Operations overview

During PRL, LAP operated in the following slots:

- Instrument re-commissioning: March 23-27, 2014. This was a checkout of the LAP instrument, verifying the integrity of instrument and the macros stored in EEPROM following the hibernation.
- Pre-landing science phase: May 9 - November 19, 2014. The main intent here was to acquire scientifically useful data from the approach and early operational phase at the comet.

Regular science operations started on May 9, 2014. At that time, the heliocentric distance was 4.07 AU and the distance to the comet more than 1.5 million km. LAP science operations were then more or less continuous for the rest of the period of this dataset, with some exceptions due to spacecraft operational slots during the approach phase, turning off to avoid interference with CONCERT at critical stages, a few days lost due to an instrument glitch, and shorter intervals for macro uploads, onboard calibrations, and macro switches.

In the tenuous solar wind, the photoemission current from a probe or the Rosetta s/c at zero potential wrt surrounding space overcomes the current from the plasma electron flux. As a result, the s/c potential is positive, the s/c photoelectron cloud is dense as electrons are retained in the vicinity of the positive s/c, and the probe current is dominated by photoelectrons, emitted by the probe itself or collected from the s/c cloud, at all voltages. Langmuir probe bias sweeps are therefore of limited value for direct indication of solar wind plasma properties, except through the information given by the s/c potential.

Initially, in May and June, the main scientific mode of LAP was therefore its electric field mode, with the probes operated with a bias current and their voltages wrt s/c ground as the measured quantity. The prime target quantity in this phase was the s/c potential, of which the measured voltages constitute a fraction, with some contamination of space charge induced voltages from e.g. the s/c photoelectron cloud. Some hours of Langmuir probe operations, where the probes are put at a bias voltage and the resulting current is measured, were inserted with a few days interval. From early July, when the cometocentric distance was some 40,000 km and some likelihood of denser plasmas by comet outbursts was perceived to be possible, the Langmuir mode took over as the main operational mode.

LAP can hand over probe 2 (P2) to RPC-MIP for use in its long-Debye length mode. This was done initially for a few hours now and then, rising to about 6 hours per day in July, 12 hours every other day in August, and then to 15 hours every second day from late October. The main macro used for these operations was macro 803, with the LAP science data being limited to current measurements at fix bias voltage on probe 1 (P1), though macro 807, in which LAP also has sweeps, was used a few times.

The LAP data acquired are mainly good and scientifically useful, though any user must take great care of the limitations set by the varying pointing, the tenuous plasmas, and the spacecraft-plasma interaction.

### 3 Science operations list

Below is a list of all LAP operations blocks during the pre-landing science phase, from May 9 to November 19. A LAP operations block is defined as a continuous run of an instrument macro, though as the archive is organized by calendar days, blocks are defined to break at midnight even if the instrument operation is continuous over this artificial border. If there are instrument blocks running the same macros on both sides of midnight, this is likely to actually be a continuous operation.

The macro concept is described in the EAICD, and the macros definitions tabulated in the macro table, both available in the documents directory of the LAP archives in the ESA Planetary Science Archive (PSA). A LAP macro defines all aspects of the instrument operations, though when a probe is in electric field mode (bias current), the probe bias current may often be tuned by manual commands because of changes in pointing.

| Block start             | Block end               | Macro | Notes |
|-------------------------|-------------------------|-------|-------|
| 2014-03-24T08:12:59.490 | 2014-03-24T12:28:27.495 | 505   |       |
| 2014-03-24T13:32:27.496 | 2014-03-24T14:18:19.497 | 803   |       |
| 2014-03-24T14:22:35.497 | 2014-03-24T14:47:39.498 | 703   |       |
| 2014-03-24T14:51:23.498 | 2014-03-24T15:18:03.498 | 704   |       |
| 2014-03-24T15:21:15.499 | 2014-03-24T15:47:23.499 | 807   |       |
| 2014-03-24T15:51:39.499 | 2014-03-24T16:17:15.500 | 604   |       |
| 2014-03-24T16:21:31.500 | 2014-03-24T17:18:03.501 | 504   |       |
| 2014-03-24T17:21:15.501 | 2014-03-24T17:47:23.502 | 506   |       |
| 2014-03-24T17:51:39.502 | 2014-03-24T17:59:39.502 | 503   |       |
| 2014-03-24T19:32:27.504 | 2014-03-24T23:59:39.509 | 506   |       |
| 2014-03-25T00:00:00.843 | 2014-03-25T23:59:39.539 | 506   |       |
| 2014-03-26T00:00:00.872 | 2014-03-26T23:59:39.569 | 506   |       |
| 2014-03-27T00:00:00.902 | 2014-03-27T04:57:47.575 | 506   |       |
| 2014-05-09T15:23:00.883 | 2014-05-09T20:58:28.890 | 506   |       |
| 2014-05-09T21:32:36.890 | 2014-05-09T23:59:48.894 | 503   |       |
| 2014-05-10T00:00:00.627 | 2014-05-10T23:59:48.924 | 503   |       |
| 2014-05-11T00:00:00.657 | 2014-05-11T23:59:48.954 | 503   |       |
| 2014-05-12T00:00:00.687 | 2014-05-12T06:09:24.962 | 503   |       |
| 2014-05-12T06:12:36.962 | 2014-05-12T09:08:04.965 | 506   |       |
| 2014-05-12T09:12:20.966 | 2014-05-12T14:29:08.972 | 503   |       |
| 2014-05-12T14:32:20.972 | 2014-05-12T23:59:48.984 | 504   |       |
| 2014-05-13T00:00:00.001 | 2014-05-13T02:29:08.987 | 504   |       |
| 2014-05-13T02:32:20.987 | 2014-05-13T14:31:49.002 | 503   |       |
| 2014-05-13T14:36:05.003 | 2014-05-13T22:01:57.012 | 803   |       |
| 2014-05-13T22:06:13.012 | 2014-05-13T23:59:49.014 | 503   |       |

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|-------------------------|-------------------------|-----|--|
| 2014-05-14T00:00:00.748 | 2014-05-14T19:58:45.040 | 503 |  |
| 2014-05-14T20:02:29.040 | 2014-05-14T23:59:49.045 | 803 |  |
| 2014-05-15T00:00:00.245 | 2014-05-15T03:58:45.050 | 803 |  |
| 2014-05-15T04:32:21.050 | 2014-05-15T14:27:01.063 | 506 |  |
| 2014-05-15T14:32:21.063 | 2014-05-15T23:59:49.075 | 504 |  |
| 2014-05-16T00:00:00.008 | 2014-05-16T02:29:09.078 | 504 |  |
| 2014-05-16T02:32:21.078 | 2014-05-16T23:59:49.105 | 503 |  |
| 2014-05-17T00:00:00.838 | 2014-05-17T23:59:49.135 | 503 |  |
| 2014-05-18T00:00:00.869 | 2014-05-18T05:57:09.143 | 503 |  |
| 2014-05-18T06:02:29.143 | 2014-05-18T17:19:17.157 | 506 |  |
| 2014-05-18T17:22:29.157 | 2014-05-18T22:43:01.164 | 504 |  |
| 2014-05-18T22:46:13.164 | 2014-05-18T23:59:49.165 | 604 |  |
| 2014-05-19T00:00:00.032 | 2014-05-19T11:12:53.180 | 604 |  |
| 2014-05-19T11:17:41.180 | 2014-05-19T13:30:29.182 | 506 |  |
| 2014-05-19T13:33:41.183 | 2014-05-19T23:59:49.196 | 503 |  |
| 2014-05-20T00:00:00.929 | 2014-05-20T11:22:29.210 | 503 |  |
| 2014-05-23T14:58:05.305 | 2014-05-23T23:59:57.316 | 504 |  |
| 2014-05-24T00:00:00.016 | 2014-05-24T02:44:13.320 | 504 |  |
| 2014-05-24T02:47:25.320 | 2014-05-24T03:42:53.321 | 506 |  |
| 2014-05-24T04:15:25.322 | 2014-05-24T23:59:57.347 | 503 |  |
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| 2014-05-26T00:00:00.577 | 2014-05-26T13:26:53.394 | 503 |  |
| 2014-05-26T13:32:13.394 | 2014-05-26T23:59:57.407 | 504 |  |
| 2014-05-27T00:00:00.007 | 2014-05-27T01:54:05.410 | 504 |  |
| 2014-05-27T01:57:17.410 | 2014-05-27T23:59:57.437 | 503 |  |
| 2014-05-28T00:00:00.637 | 2014-05-28T23:59:57.468 | 503 |  |
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| 2014-05-29T13:32:13.485 | 2014-05-29T23:59:57.498 | 504 |  |
| 2014-05-30T00:00:00.014 | 2014-05-30T01:29:01.500 | 504 |  |
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| 2014-05-30T02:16:29.501 | 2014-05-30T03:55:09.503 | 803 |  |
| 2014-05-30T03:58:21.503 | 2014-05-30T06:56:29.507 | 506 |  |
| 2014-05-30T07:00:13.507 | 2014-05-30T23:59:57.528 | 503 |  |
| 2014-05-31T00:00:00.728 | 2014-05-31T15:18:21.547 | 503 |  |
| 2014-05-31T15:22:37.547 | 2014-05-31T16:18:05.548 | 506 |  |
| 2014-05-31T16:22:21.549 | 2014-05-31T23:59:57.558 | 504 |  |
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| 2014-06-01T01:02:21.559 | 2014-06-01T02:27:09.561 | 506 |  |
| 2014-06-01T03:00:13.562 | 2014-06-01T23:59:57.588 | 503 |  |
| 2014-06-02T00:00:00.788 | 2014-06-02T23:59:57.619 | 503 |  |
| 2014-06-03T00:00:00.819 | 2014-06-03T10:21:17.632 | 503 |  |
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| 2014-06-06T07:03:33.718 | 2014-06-06T23:59:33.739 | 504 |  |
| 2014-06-07T00:00:00.006 | 2014-06-07T03:00:21.743 | 504 |  |

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| 2014-06-07T23:05:41.769 | 2014-06-07T23:59:33.770 | 504 |  |
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| 2014-06-16T03:03:02.015 | 2014-06-16T05:59:02.019 | 807 |  |
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| 2014-06-20T06:45:42.141 | 2014-06-20T23:59:50.162 | 504 |  |
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| 2014-06-21T05:45:26.170 | 2014-06-21T22:27:34.191 | 503 |  |
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| 2014-06-22T09:10:46.204 | 2014-06-22T11:15:02.207 | 803 |  |
| 2014-06-22T11:18:46.207 | 2014-06-22T13:04:54.209 | 506 |  |
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| 2014-06-23T00:00:00.006 | 2014-06-23T23:54:30.253 | 504 |  |
| 2014-06-23T23:57:42.253 | 2014-06-23T23:59:50.253 | 803 |  |
| 2014-06-24T00:00:00.386 | 2014-06-24T02:01:58.256 | 803 |  |
| 2014-06-24T02:05:42.256 | 2014-06-24T23:59:50.283 | 503 |  |
| 2014-06-25T00:00:00.950 | 2014-06-25T10:42:30.297 | 503 |  |
| 2014-06-25T10:47:18.297 | 2014-06-25T23:59:50.313 | 504 |  |
| 2014-06-26T00:00:00.013 | 2014-06-26T02:25:58.317 | 504 |  |
| 2014-06-26T02:29:42.317 | 2014-06-26T04:33:26.319 | 807 |  |

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| 2014-06-27T04:24:22.349 | 2014-06-27T23:54:30.374 | 503 |  |
| 2014-06-27T23:58:46.374 | 2014-06-27T23:59:50.374 | 803 |  |
| 2014-06-28T00:00:00.507 | 2014-06-28T02:03:02.376 | 803 |  |
| 2014-06-28T02:06:46.377 | 2014-06-28T23:59:50.404 | 503 |  |
| 2014-06-29T00:00:00.004 | 2014-06-29T08:56:54.415 | 503 |  |
| 2014-06-29T10:02:30.417 | 2014-06-29T10:58:30.418 | 506 |  |
| 2014-06-29T11:02:14.418 | 2014-06-29T22:28:06.432 | 504 |  |
| 2014-06-29T22:31:18.432 | 2014-06-29T23:59:50.434 | 803 |  |
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| 2014-06-30T00:39:18.435 | 2014-06-30T06:05:10.442 | 604 |  |
| 2014-06-30T06:09:26.442 | 2014-06-30T08:22:14.445 | 504 |  |
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| 2014-07-04T04:47:26.561 | 2014-07-04T06:44:14.564 | 506 |  |
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| 2014-07-04T08:47:58.566 | 2014-07-04T09:43:26.567 | 506 |  |
| 2014-07-04T09:48:14.568 | 2014-07-04T23:59:42.585 | 504 |  |
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| 2014-07-05T11:02:38.599 | 2014-07-05T12:58:54.602 | 803 |  |
| 2014-07-05T13:02:38.602 | 2014-07-05T14:59:26.604 | 506 |  |
| 2014-07-05T15:02:38.604 | 2014-07-05T23:59:42.616 | 503 |  |
| 2014-07-06T00:00:00.749 | 2014-07-06T09:50:06.628 | 503 |  |
| 2014-07-06T09:53:18.628 | 2014-07-06T20:18:54.641 | 504 |  |
| 2014-07-06T20:22:06.641 | 2014-07-06T22:18:22.644 | 803 |  |
| 2014-07-06T22:22:06.644 | 2014-07-06T23:59:42.646 | 504 |  |
| 2014-07-07T00:00:00.013 | 2014-07-07T07:29:50.655 | 504 |  |
| 2014-07-07T07:33:02.655 | 2014-07-07T09:29:18.658 | 803 |  |
| 2014-07-07T09:33:02.658 | 2014-07-07T15:29:50.665 | 503 |  |
| 2014-07-07T15:33:02.665 | 2014-07-07T23:59:42.676 | 504 |  |
| 2014-07-08T00:02:54.676 | 2014-07-08T01:59:10.679 | 803 |  |
| 2014-07-08T02:02:54.679 | 2014-07-08T08:16:14.686 | 503 |  |
| 2014-07-11T02:47:58.770 | 2014-07-11T04:44:14.773 | 803 |  |
| 2014-07-11T04:47:26.773 | 2014-07-11T14:08:30.784 | 604 |  |
| 2014-07-11T15:12:30.786 | 2014-07-11T16:07:58.787 | 503 |  |
| 2014-07-18T02:47:58.982 | 2014-07-18T08:39:58.989 | 803 |  |
| 2014-07-18T08:49:02.989 | 2014-07-18T13:42:54.995 | 604 |  |
| 2014-07-18T13:47:42.995 | 2014-07-18T16:43:10.999 | 506 |  |
| 2014-07-18T17:41:51.000 | 2014-07-18T23:59:59.008 | 604 |  |
| 2014-07-19T00:00:00.008 | 2014-07-19T02:43:43.012 | 604 |  |
| 2014-07-19T02:47:59.012 | 2014-07-19T08:44:15.019 | 803 |  |

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| 2014-07-19T08:47:59.019 | 2014-07-19T20:44:15.034 | 604 |  |
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| 2014-07-20T00:00:00.105 | 2014-07-20T02:44:15.042 | 803 |  |
| 2014-07-20T02:47:59.042 | 2014-07-20T04:34:07.044 | 506 |  |
| 2014-07-20T04:37:19.044 | 2014-07-20T06:33:35.047 | 504 |  |
| 2014-07-20T06:37:19.047 | 2014-07-20T23:59:59.069 | 506 |  |
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| 2014-07-25T08:47:27.201 | 2014-07-25T23:59:59.220 | 604 |  |
| 2014-07-26T00:00:00.020 | 2014-07-26T05:42:55.227 | 604 |  |
| 2014-07-26T05:47:43.227 | 2014-07-26T11:43:59.235 | 803 |  |
| 2014-07-26T11:47:43.235 | 2014-07-26T23:59:59.250 | 506 |  |
| 2014-07-27T00:00:01.383 | 2014-07-27T06:43:11.258 | 506 |  |
| 2014-07-27T06:47:27.259 | 2014-07-27T07:43:27.260 | 304 |  |
| 2014-07-27T07:47:43.260 | 2014-07-27T08:43:11.261 | 307 |  |
| 2014-07-27T08:47:27.261 | 2014-07-27T14:43:43.269 | 803 |  |
| 2014-07-27T14:47:27.269 | 2014-07-27T23:59:59.280 | 604 |  |
| 2014-07-28T00:00:00.014 | 2014-07-28T11:42:55.295 | 604 |  |
| 2014-07-28T11:47:43.295 | 2014-07-28T17:43:59.303 | 803 |  |
| 2014-07-28T17:47:43.303 | 2014-07-28T23:59:59.310 | 506 |  |
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| 2014-07-29T20:47:27.337 | 2014-07-29T23:59:59.341 | 604 |  |
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| 2014-07-30T17:47:43.363 | 2014-07-30T23:43:59.371 | 803 |  |
| 2014-07-30T23:47:43.371 | 2014-07-30T23:59:59.371 | 506 |  |
| 2014-07-31T00:00:01.504 | 2014-07-31T20:43:11.397 | 506 |  |
| 2014-07-31T20:47:27.397 | 2014-07-31T23:59:59.401 | 803 |  |
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| 2014-08-01T02:47:27.405 | 2014-08-01T10:08:31.414 | 604 |  |
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| 2014-10-29T00:00:01.980 | 2014-10-29T07:57:21.989 | 505 |  |
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| 2014-10-30T00:08:34.009 | 2014-10-30T04:58:42.014 | 505 |  |
| 2014-10-30T05:13:06.015 | 2014-10-30T23:59:30.037 | 515 |  |

|                         |                         |     |  |
|-------------------------|-------------------------|-----|--|
| 2014-10-31T00:00:02.037 | 2014-10-31T08:37:54.047 | 515 |  |
| 2014-10-31T08:43:14.047 | 2014-10-31T08:56:34.048 | 307 |  |
| 2014-10-31T09:02:58.048 | 2014-10-31T23:58:26.066 | 803 |  |
| 2014-11-01T00:08:34.066 | 2014-11-01T23:59:30.094 | 515 |  |
| 2014-11-02T00:00:02.094 | 2014-11-02T08:58:42.105 | 515 |  |
| 2014-11-02T09:02:58.105 | 2014-11-02T23:57:54.123 | 803 |  |
| 2014-11-03T00:03:14.123 | 2014-11-03T23:59:30.151 | 515 |  |
| 2014-11-04T00:00:02.151 | 2014-11-04T05:57:22.158 | 515 |  |
| 2014-11-04T07:02:58.160 | 2014-11-04T21:57:54.178 | 803 |  |
| 2014-11-04T22:03:14.178 | 2014-11-04T23:59:30.180 | 604 |  |
| 2014-11-05T00:00:02.180 | 2014-11-05T23:59:30.209 | 604 |  |
| 2014-11-06T00:00:02.209 | 2014-11-06T12:58:42.224 | 604 |  |
| 2014-11-06T13:02:58.224 | 2014-11-06T23:59:30.237 | 803 |  |
| 2014-11-07T00:00:02.237 | 2014-11-07T04:00:02.242 | 803 |  |
| 2014-11-07T04:13:22.242 | 2014-11-07T19:59:30.261 | 515 |  |
| 2014-11-07T20:03:14.261 | 2014-11-07T23:59:30.266 | 204 |  |
| 2014-11-08T00:00:02.266 | 2014-11-08T15:29:06.284 | 204 |  |
| 2014-11-08T15:32:50.284 | 2014-11-08T23:59:30.294 | 515 |  |
| 2014-11-09T00:00:02.294 | 2014-11-09T02:57:38.298 | 515 |  |
| 2014-11-09T04:03:14.299 | 2014-11-09T23:59:30.323 | 803 |  |
| 2014-11-10T00:00:02.323 | 2014-11-10T09:59:30.335 | 803 |  |
| 2014-11-10T10:03:14.335 | 2014-11-10T23:52:02.351 | 515 |  |
| 2014-11-10T23:55:46.351 | 2014-11-10T23:59:30.352 | 503 |  |
| 2014-11-11T00:00:02.352 | 2014-11-11T04:56:34.357 | 503 |  |
| 2014-11-11T05:00:50.358 | 2014-11-11T23:59:30.380 | 515 |  |
| 2014-11-12T00:00:02.380 | 2014-11-12T04:14:58.385 | 515 |  |
| 2014-11-12T04:18:42.385 | 2014-11-12T18:53:54.403 | 803 |  |
| 2014-11-13T06:45:54.417 | 2014-11-13T14:41:06.422 | 807 |  |
| 2014-11-13T14:44:50.422 | 2014-11-13T23:59:30.433 | 515 |  |
| 2014-11-14T00:00:02.433 | 2014-11-14T09:58:58.445 | 515 |  |
| 2014-11-14T10:03:14.445 | 2014-11-14T23:59:30.461 | 807 |  |
| 2014-11-15T00:00:00.011 | 2014-11-15T00:59:14.463 | 807 |  |
| 2014-11-15T01:02:58.463 | 2014-11-15T23:59:30.490 | 515 |  |
| 2014-11-16T00:00:02.490 | 2014-11-16T02:59:46.493 | 515 |  |
| 2014-11-16T03:02:58.494 | 2014-11-16T08:00:02.499 | 604 |  |
| 2014-11-16T09:02:58.501 | 2014-11-16T23:59:30.518 | 803 |  |
| 2014-11-17T00:00:02.518 | 2014-11-17T00:00:02.518 | 803 |  |
| 2014-11-17T00:03:14.518 | 2014-11-17T23:59:30.547 | 515 |  |
| 2014-11-18T00:00:02.547 | 2014-11-18T08:58:42.558 | 515 |  |
| 2014-11-18T09:02:58.558 | 2014-11-18T23:23:14.575 | 803 |  |
| 2014-11-18T23:26:58.575 | 2014-11-18T23:59:30.575 | 515 |  |
| 2014-11-19T00:00:02.575 | 2014-11-19T23:59:30.604 | 515 |  |