```
PDS_VERSION_ID          = PDS3
LABEL_REVISION_NOTE     = "2009-11-27 JK: Update PVV 3.5.1
                           2010-04-21 JK: Fixed non ascii symbols
                           2016-10-27 PN: Fixed spelling
                           2017-06-29 PN: Fix energy range & Crew
                           "

RECORD_TYPE             = "STREAM"

OBJECT                  = INSTRUMENT
  INSTRUMENT_HOST_ID    = RO
  INSTRUMENT_ID         = "RPCICA"

OBJECT                    = INSTRUMENT_INFORMATION
  INSTRUMENT_NAME         = "
    ROSETTA PLASMA CONSORTIUM - ION COMPOSITION ANALYSER"
  INSTRUMENT_TYPE         = "PLASMA INSTRUMENT"
  INSTRUMENT_DESC         = "

Instrument Overview
===================
The Ion Composition Analyzer (ICA) is part of the Rosetta Plasma
Consortiumn(RPC). ICA is designed to measure the three-dimensional
distribution function of positive ions in order to study the
interaction between the solar wind and cometary particles. The
instrument has a mass resolution high enough to resolve the major
species such as protons, helium, oxygen, molecular ions, and heavy
ions characteristic of dusty plasma regions. ICA consists of an
electrostatic acceptance angle filter, an electrostatic energy filter,
and a magnetic momentum filter. Particles are detected using large
diameter (100 mm) microchannel plates and a two-dimensional anode
system. ICA has its own processor for data reduction / compression and
formatting. The energy range of the instrument is from 5 eV to 40 keV
and an angular field-of-view of 360 deg times 90 deg is achieved
through electrostatic deflection of incoming particles.
The ICA instrument is based on the design of three earlier versions
of this type of instrument. Those are the TICS instrument flown on the
Swedish-German research satellite Freja which was operated between
1992-1996, the IMIS instrument which was part of the ASPERA-C
experiment on the ill-fated Mars-96 mission, and the IMI instrument
on the Japanese Nozomi mission to Mars. The instrument also has
heritage from the ASPERA experiment flown on the Soviet spacecraft
Phobos-2 to Mars. Furthermore an almost identical mass resolving
ion spectrometer has been flown on the Mars Express mission, the IMA
sensor of the ASPERA-3 instrument. One more copy, only slightly
modified, is part of the ASPERA-4 instrument on Venus Express.

RPC-ICA  Characteristics
============================
Quantity                Range
Energy: Range           5 eV to 40 keV
        Resolution      Delta E/E$=0.07
Scan:   32 (solar wind) 96 (otherwise)
Angle:  Range (FOV)     90 x 360 degrees
        Resolution      5.0 x 22.5 degrees (16 elevation steps x 16
                        sectors)

Temporal
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