

R O S E T T A
FLIGHT REPORTS
of RPC-MAG

RO-IGEP-TR-0020

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2006-10-25

**STUDY OF POSSIBLE
COMET ION TAIL ENCOUNTERS
DURING ROSETTA'S CRUISE PHASE**

Time Period: January 2006 - January 2014

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1 Introduction

This document shows the results of an investigation concerning the encounter of the ROSETTA spacecraft and the possible ion tails of selected comets. All comets from 1P/Halley up to 178P/HUG-Bell plus some others have been taken into account. The cometary data have been retrieved as SPK Spice kernels from the JPL Horizons System (ssd.jpl.nasa.gov). The developed IDL software calculated the minimum distance between the anticipated ion tail of the specified comet and the ROSETTA spacecraft in the time period 2006 - 2014. The software generated two kinds of plots:

- Minimum Distance vs. Time
- Orbit projections of the comet and ROSETTA in the XY-plane of the ECLIPJ2000 system.
Anticipated ion tail projection and parker spiral is added. A solar wind speed of 450 km/s has been used for this simulation.

If the minimum distance to the tail found by the software was below 0.2 AU a detailed table of the encounter parameters was added to the output.

2 Observation Recommendations

From the bunch of candidates found a subset was chosen for further investigation. The threshold for this refined subset was set to a minimum distance of 0.1AU. Thus the final candidates are:

COMET	Encounter Date	Minimum Distance to Ion Tail [AU]	Propagation Time of Tail Structure
45P/HONDA-MRKOS-PAJDUSAKOVA ¹	2006-07-06	0.0620	2.790
79P/DU TOIT-HARTLEY	2008-07-08	0.0780	2.440
CATALINA-LINEAR	2011-03-17	0.0440	6.650
11P/TEMPEL-SWIFT-LINEAR	2012-02-09	0.0650	0.000

For the investigation we propose to switch on the instruments in normal mode for the time interval **Encounter date \pm 1 week.**

¹Already detected by ROSETTA

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3 Comet 1P/HALLEY

Comet: 1P/HALLEY
No Encounter below 0.2000AU

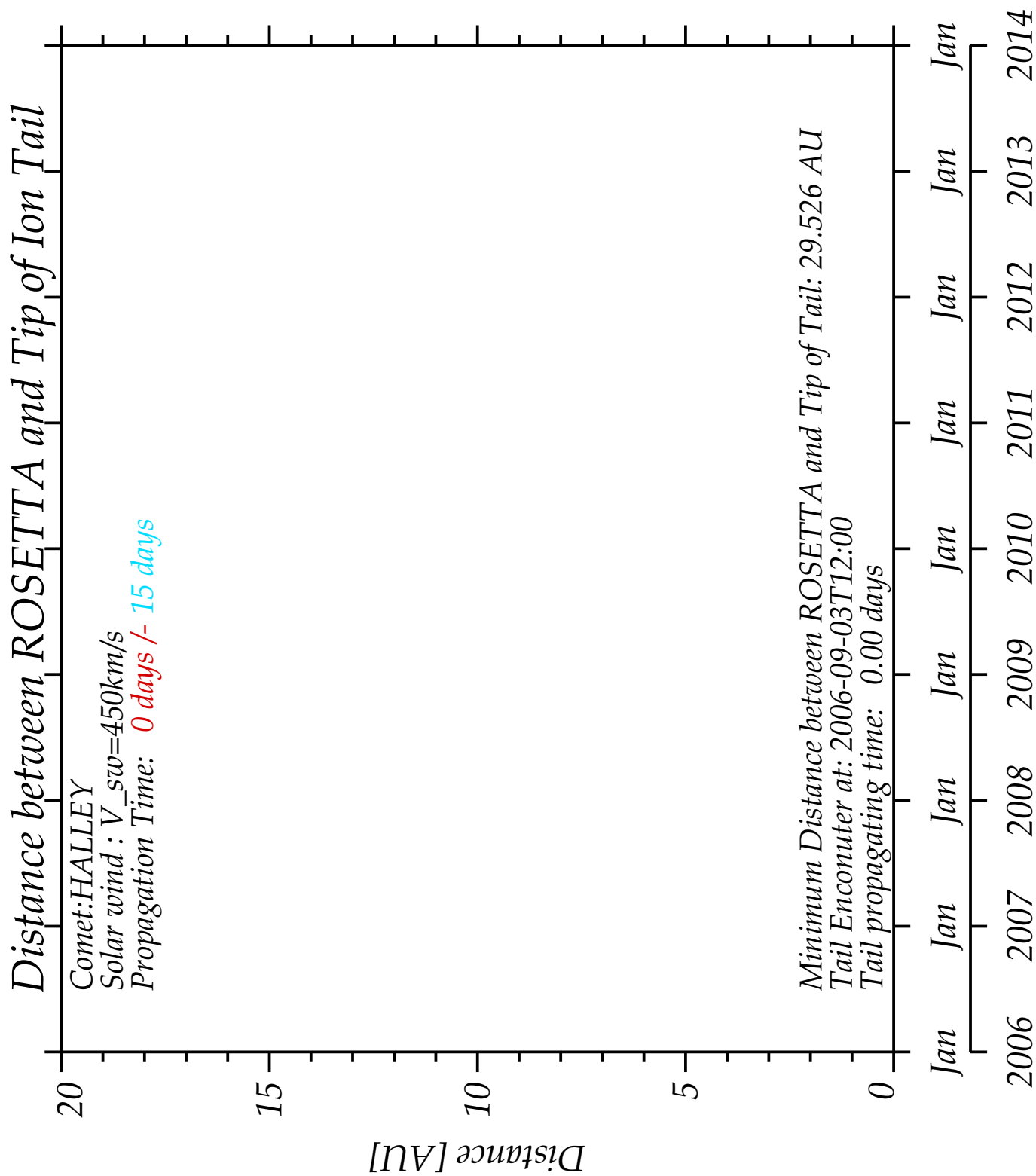


Figure 1: Minimum Distances: ROSETTA - HALLEY

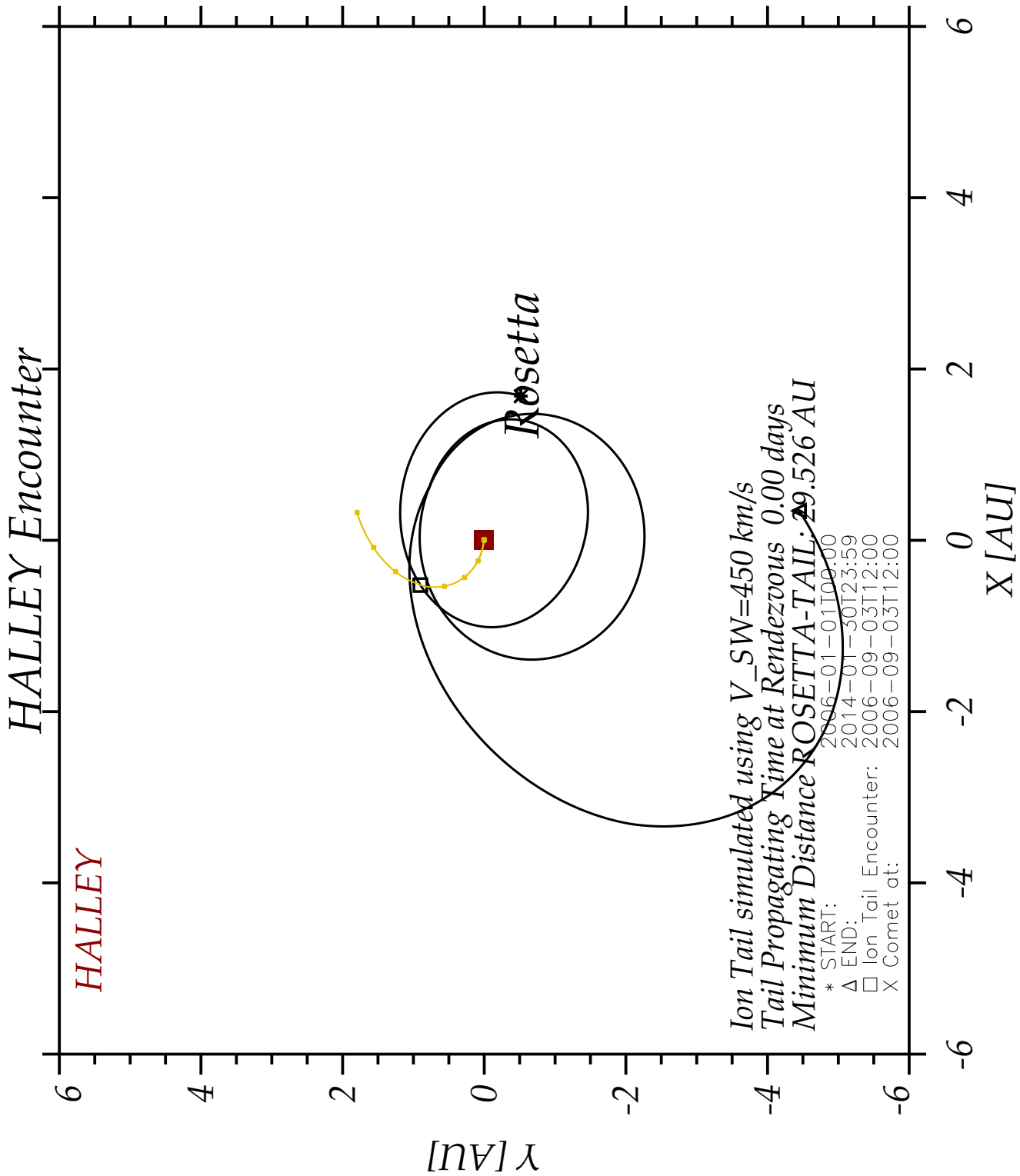


Figure 2: Overview: ROSETTA - HALLEY

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4 Comet 2P/ENCKE

Comet: 2P/ENCKE
No Encounter below 0.2000AU

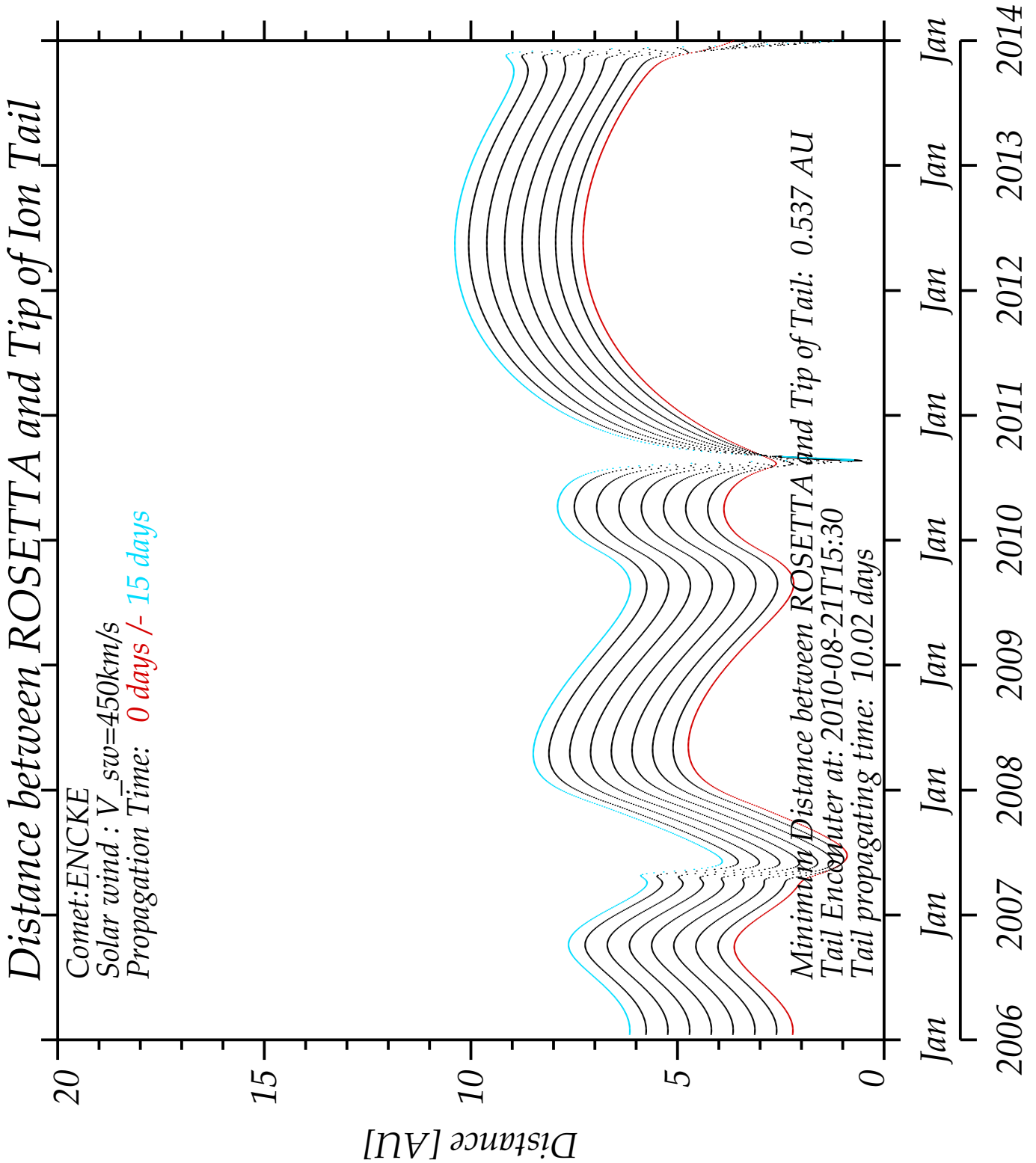


Figure 3: Minimum Distances: ROSETTA - ENCKE

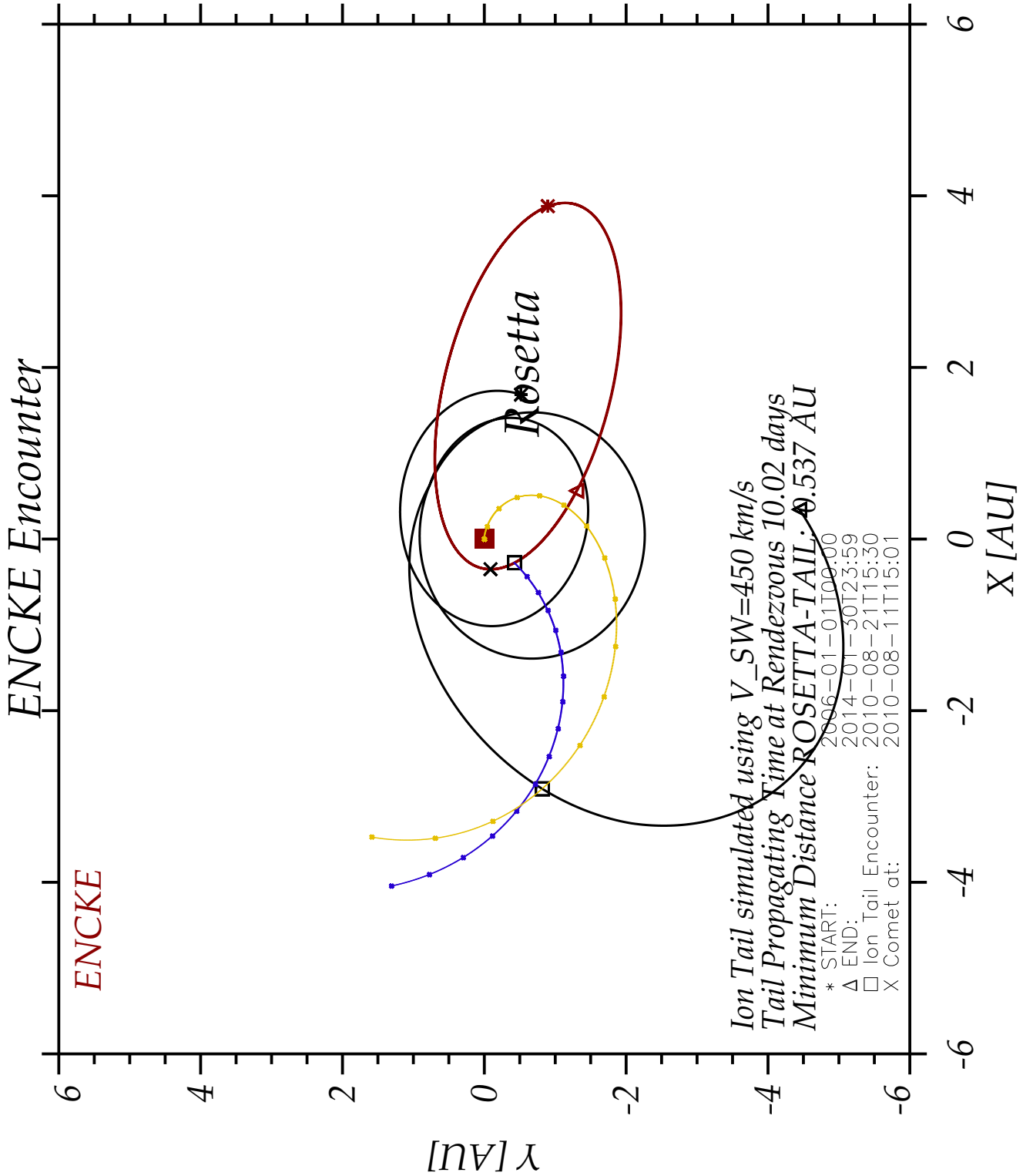


Figure 4: Overview: ROSETTA - ENCKE

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5 Comet 3D/BIELA

Comet: 3D/BIELA
No Encounter below 0.2000AU

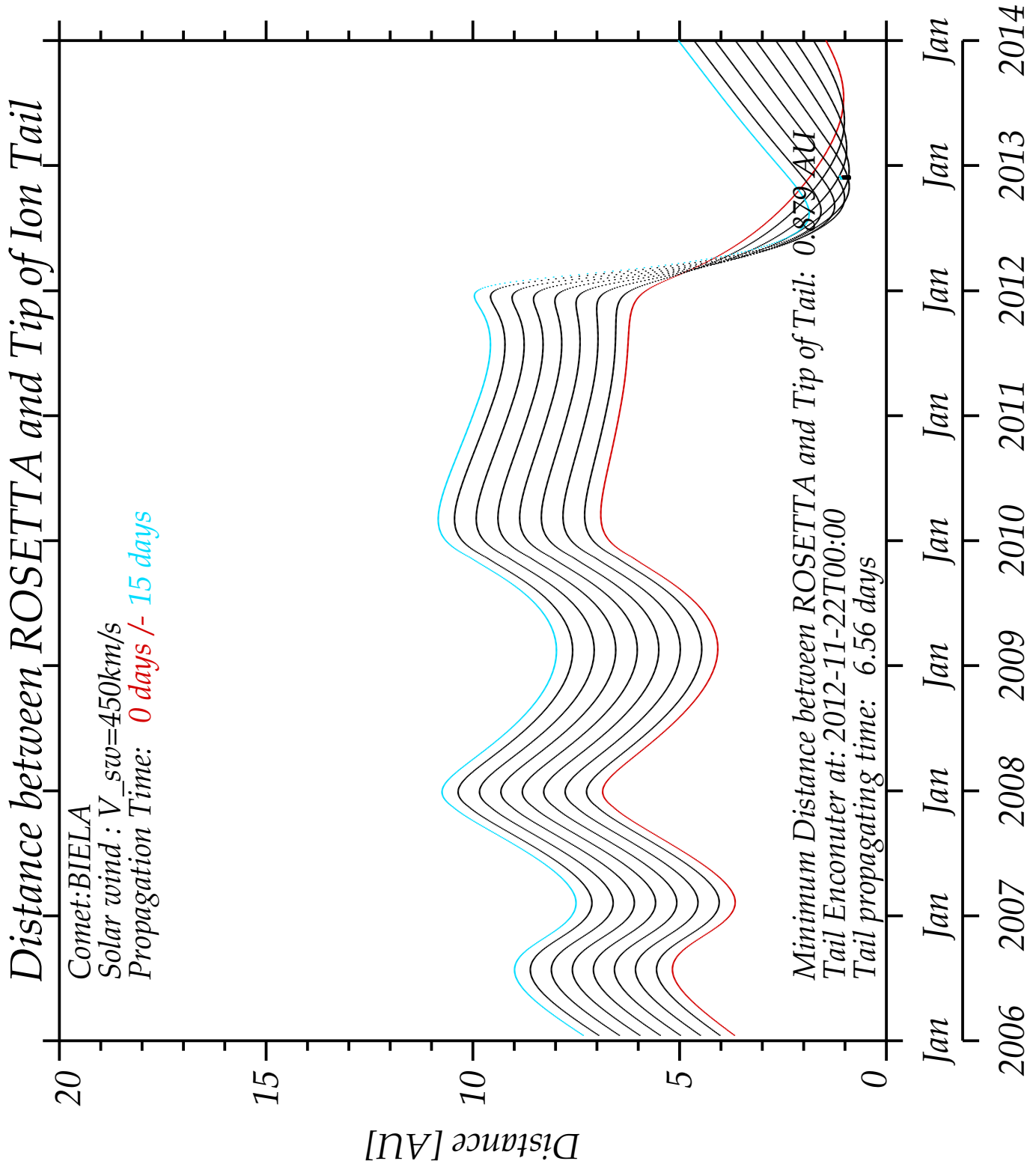


Figure 5: Minimum Distances: ROSETTA - BIELA

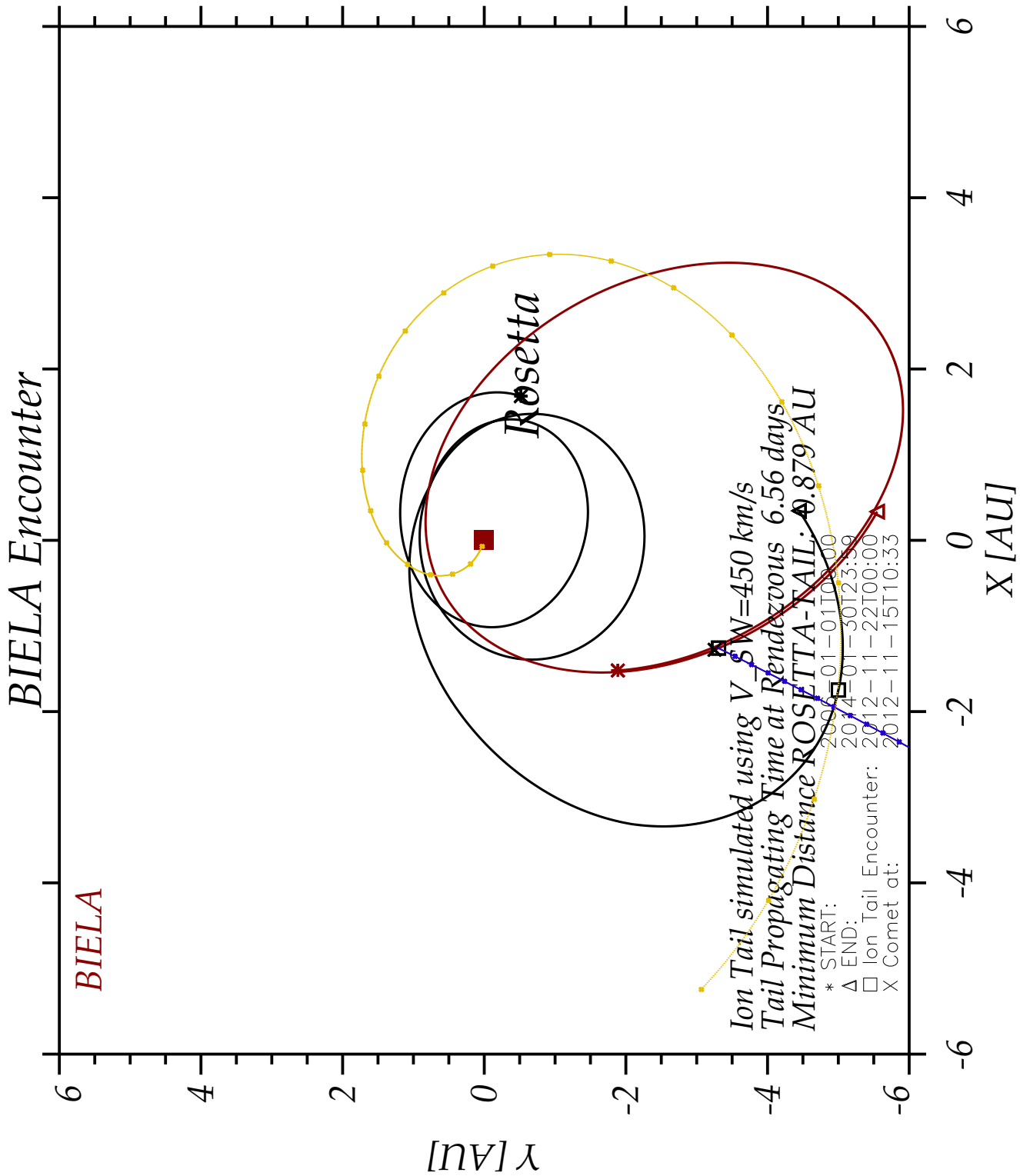


Figure 6: Overview: ROSETTA - BIELA

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6 Comet 4P/FAYE

<p>Comet: 4P/FAYE</p>
<p>No Encounter below 0.2000AU</p>

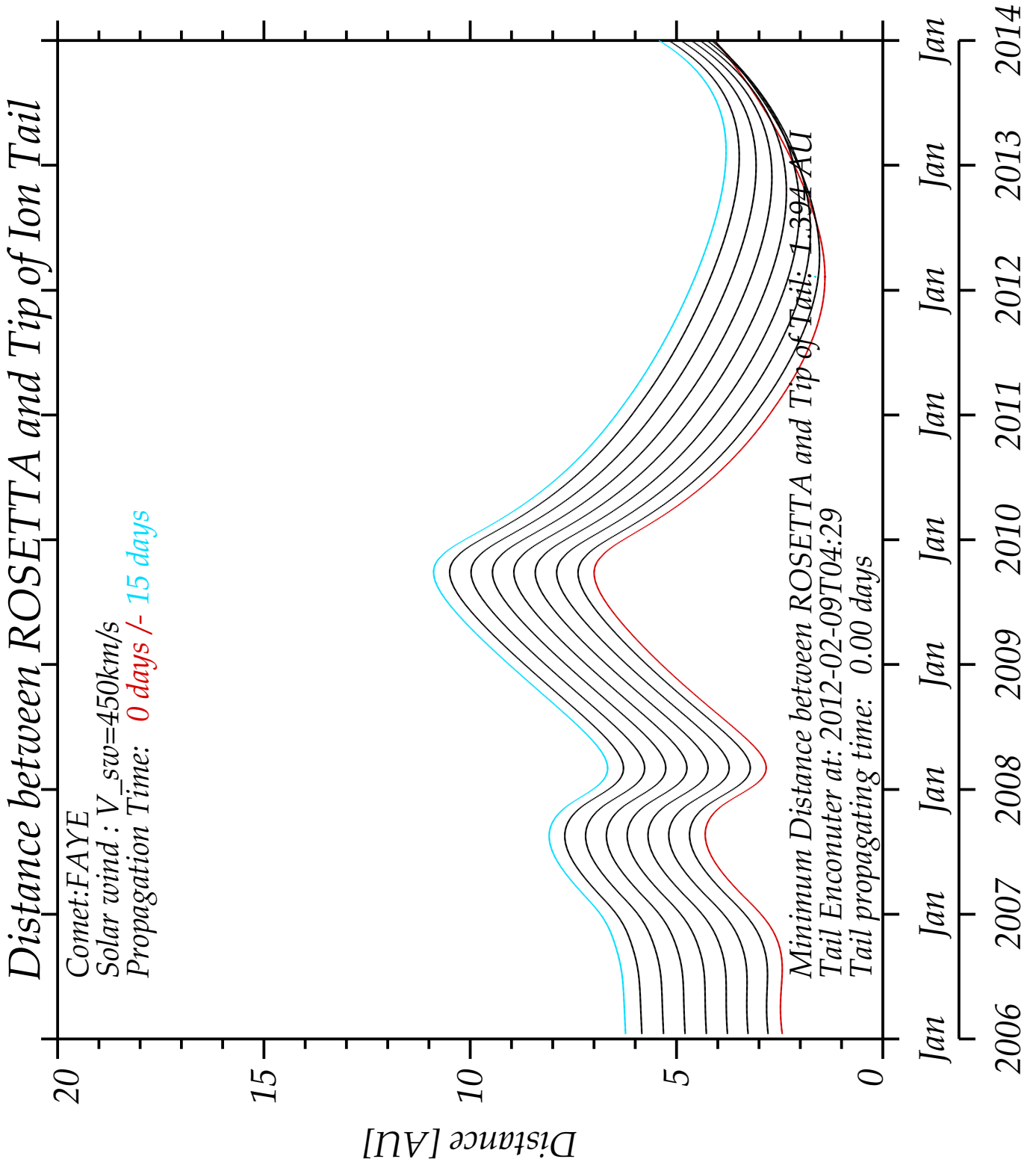


Figure 7: Minimum Distances: ROSETTA - FAYE

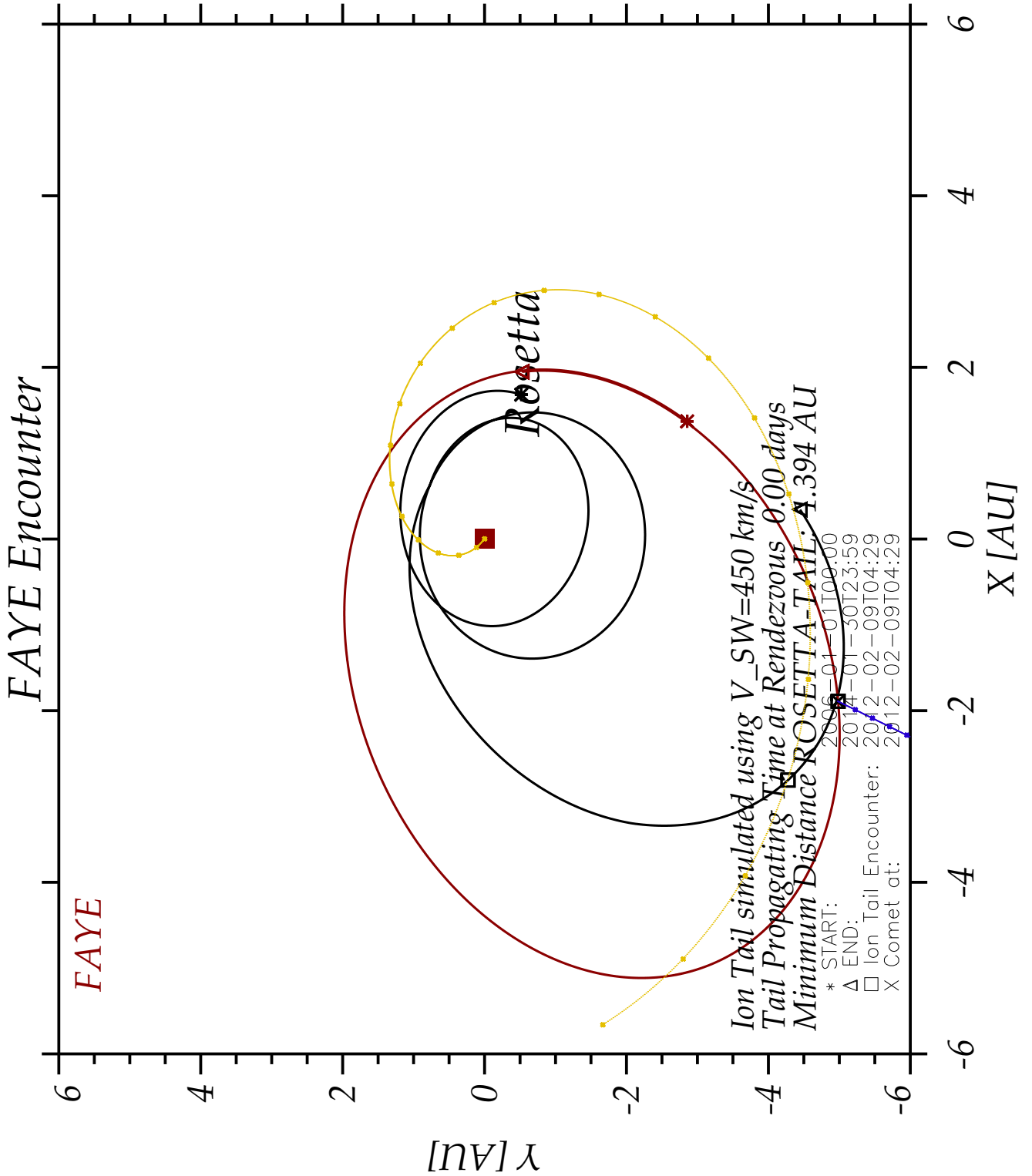


Figure 8: Overview: ROSETTA - FAYE

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7 Comet 5D/BROSEN

Comet: 5D/BROSEN
No Encounter below 0.2000AU

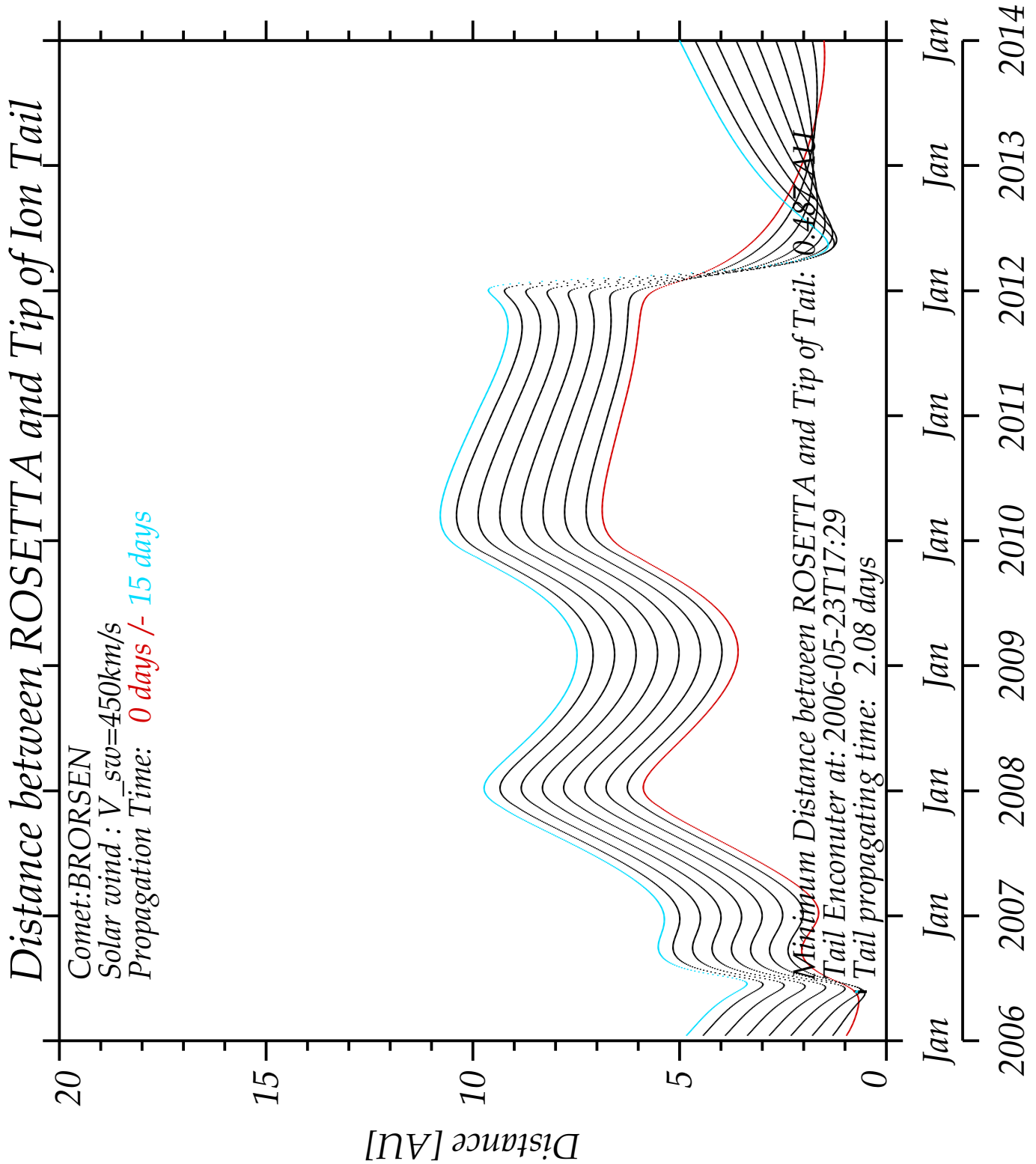


Figure 9: Minimum Distances: ROSETTA - BRORSEN

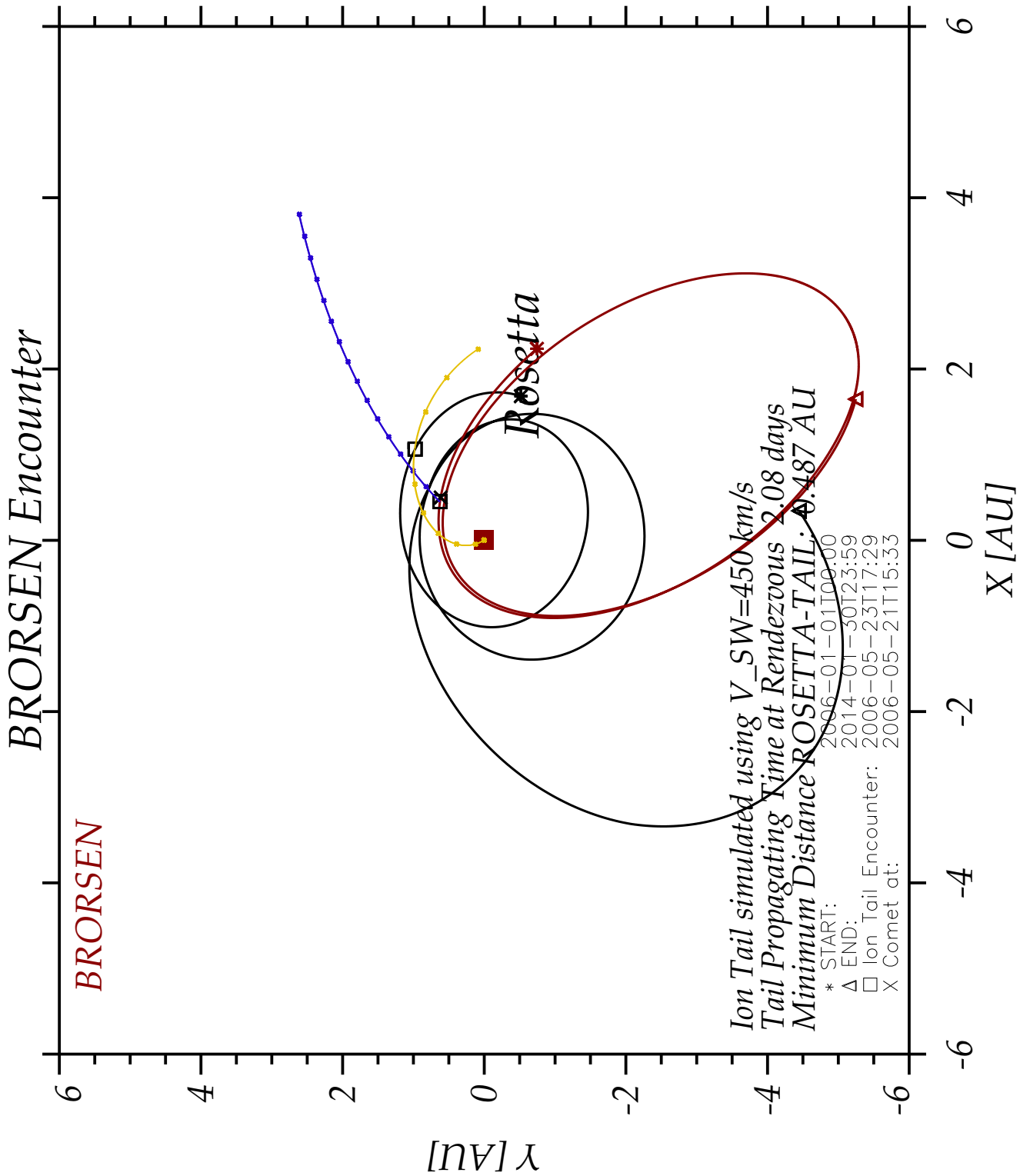


Figure 10: Overview: ROSETTA - BRORSEN

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8 Comet 6P/D'ARREST

Comet: 6P/D'ARREST
No Encounter below 0.2000AU

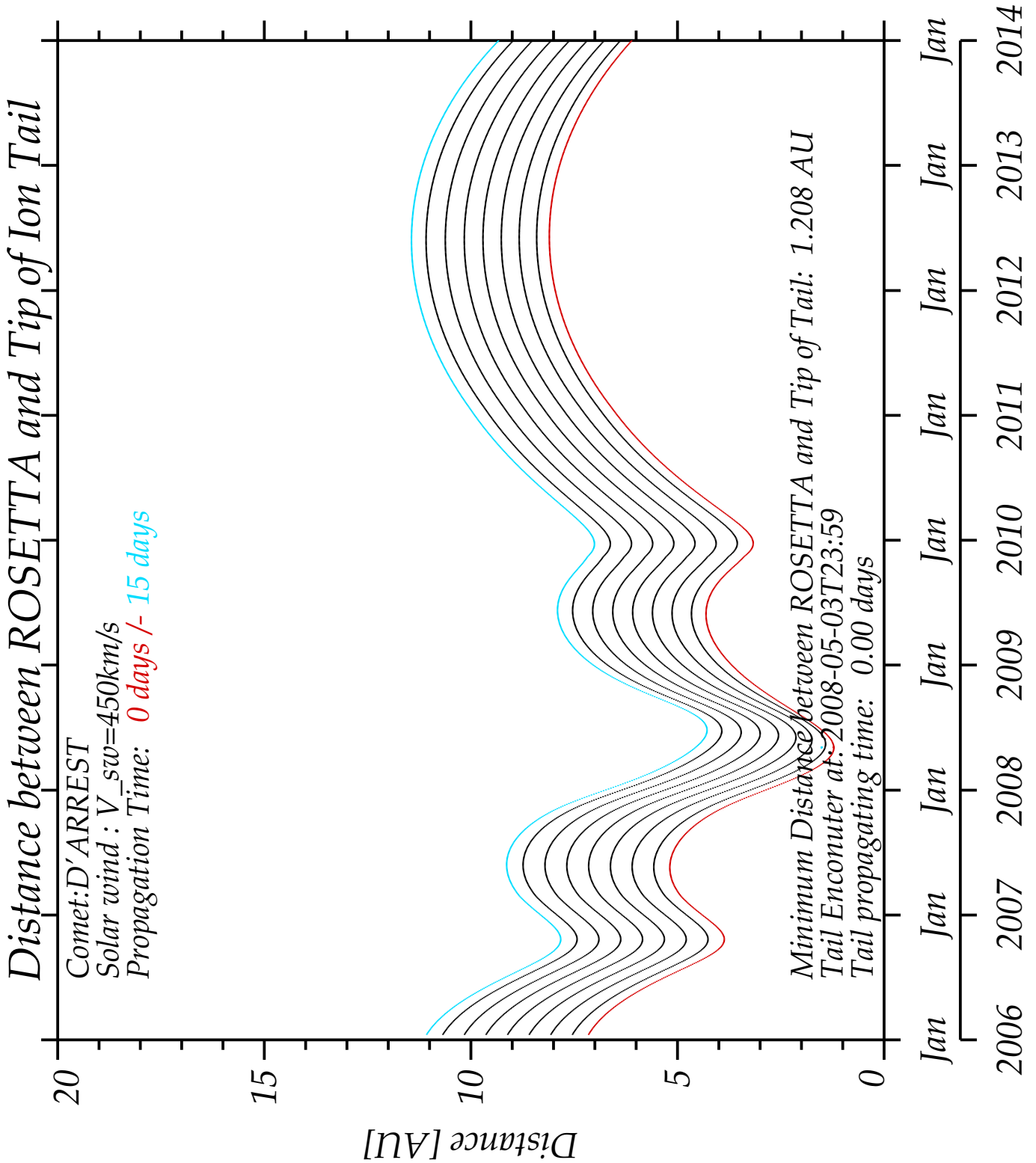


Figure 11: Minimum Distances: ROSETTA - D'ARREST

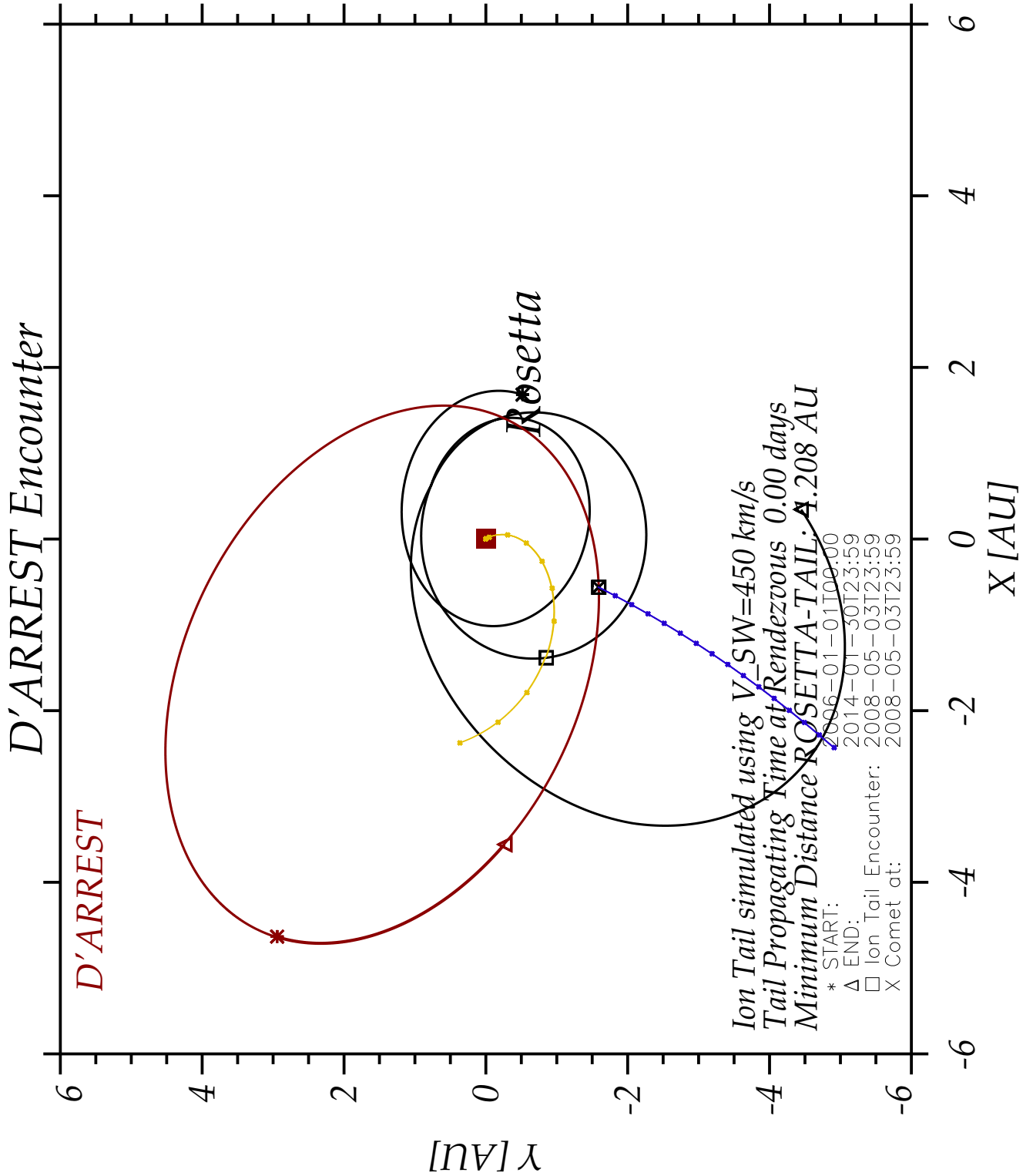


Figure 12: Overview: ROSETTA - D'ARREST

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9 Comet 7P/PONS-WINNECKE

<p>Comet: 7P/PONS-WINNECKE</p>
<p>No Encounter below 0.2000AU</p>

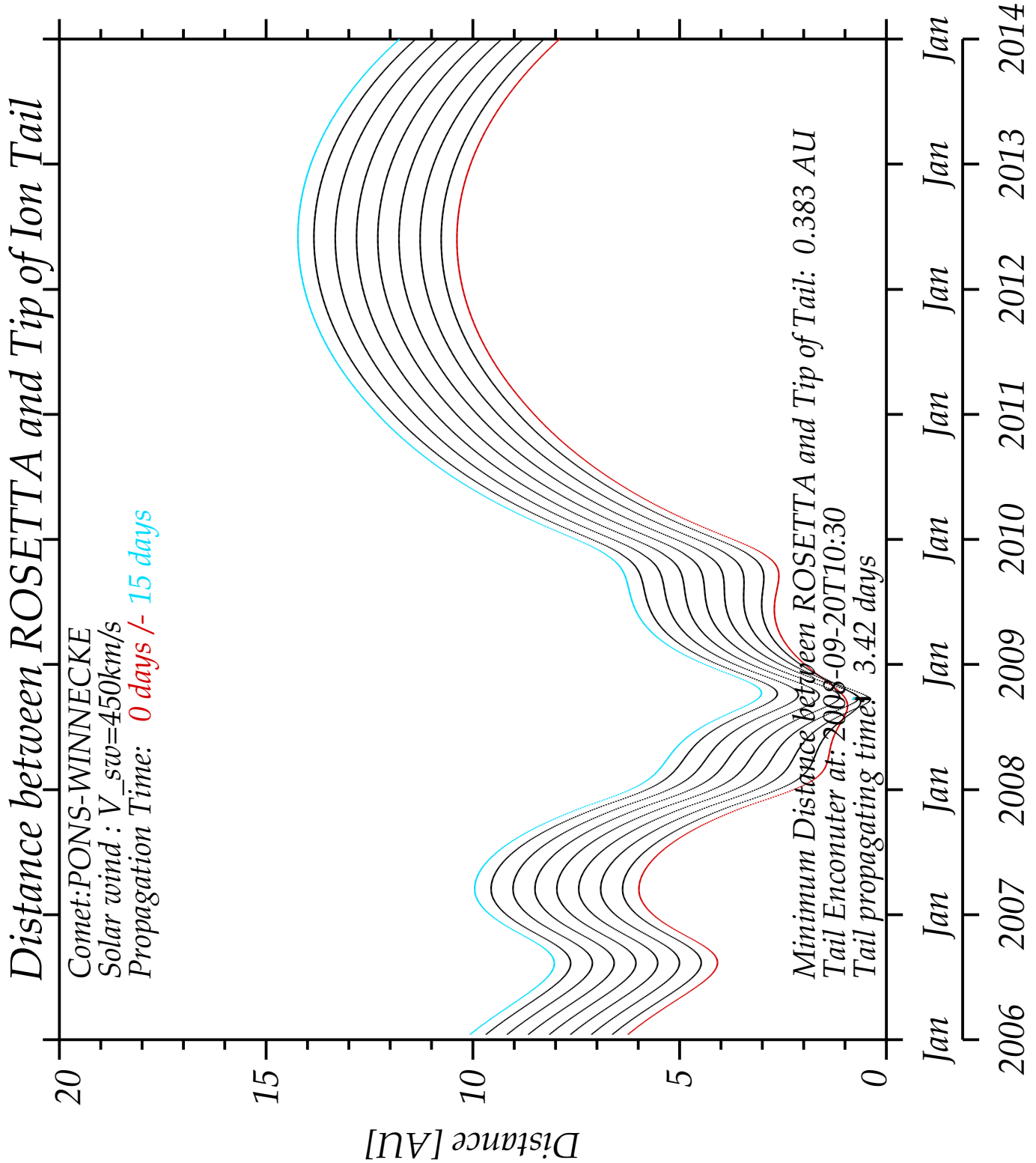


Figure 13: Minimum Distances: ROSETTA - PONS-WINNECKE

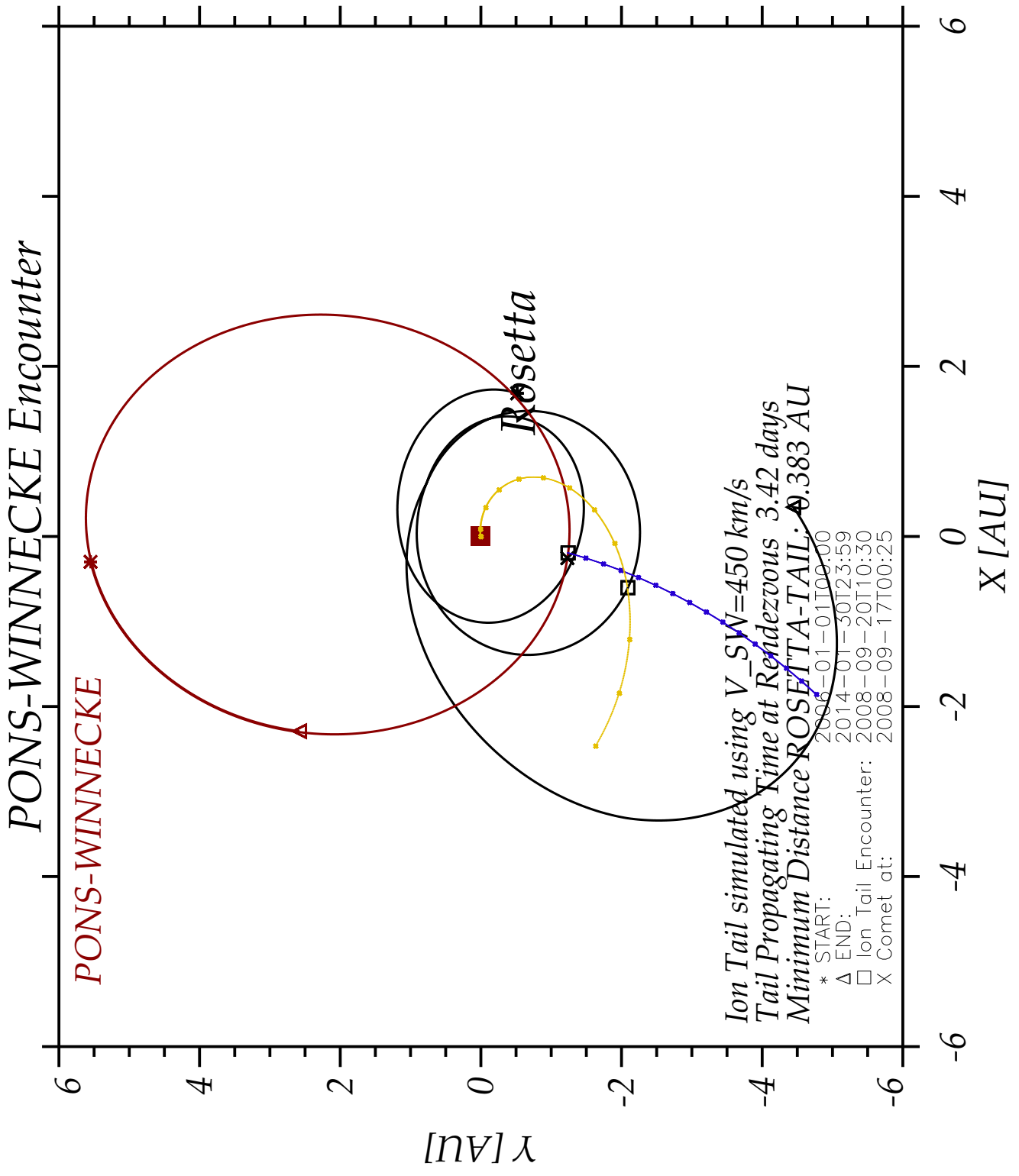


Figure 14: Overview: ROSETTA - PONS-WINNECKE

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10 Comet 8P/TUTTLE

Comet: 8P/TUTTLE
No Encounter below 0.2000AU

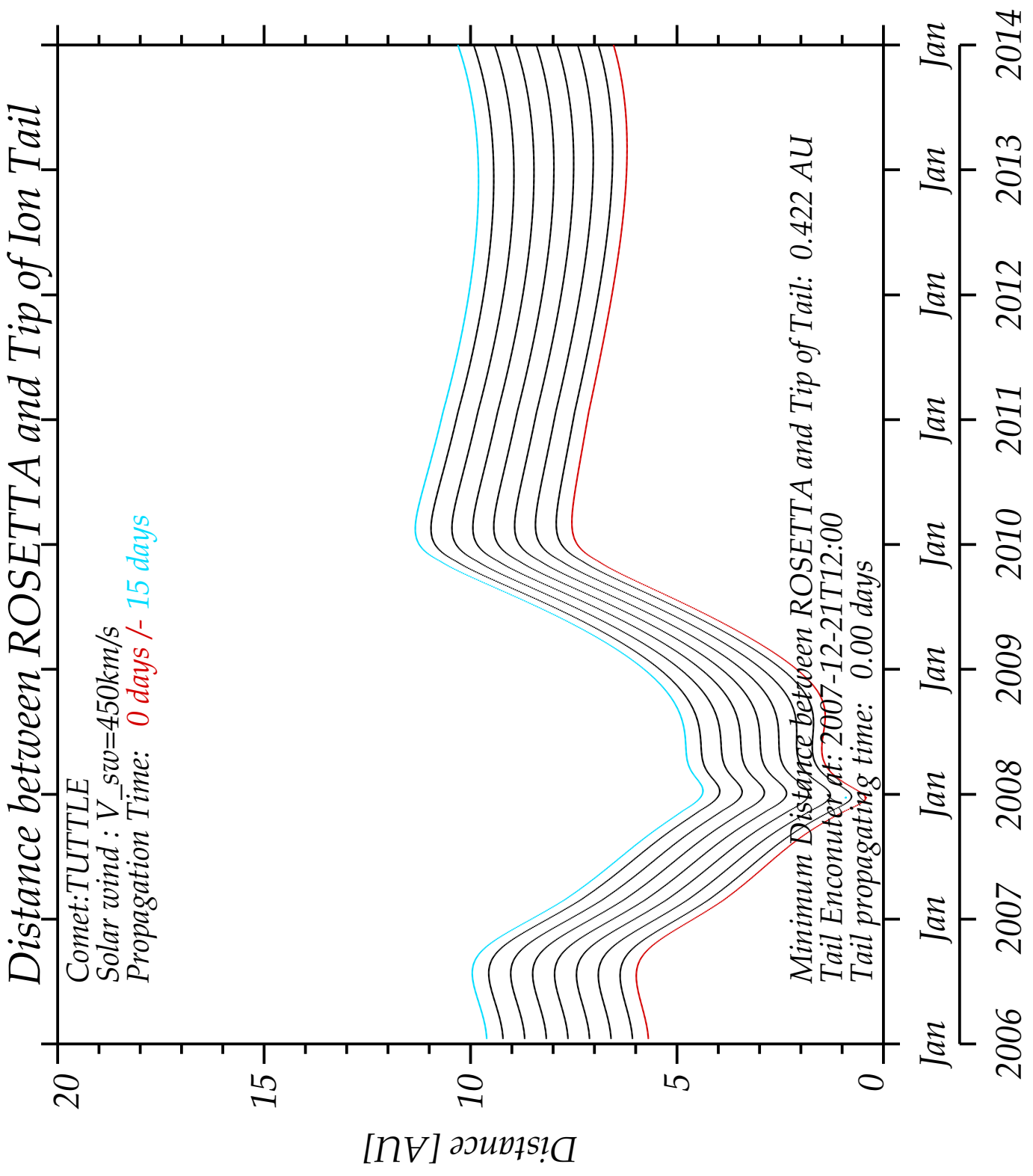


Figure 15: Minimum Distances: ROSETTA - TUTTLE

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11 Comet 9P/TEMPEL 1

Comet: 9P/TEMPEL 1
No Encounter below 0.2000AU

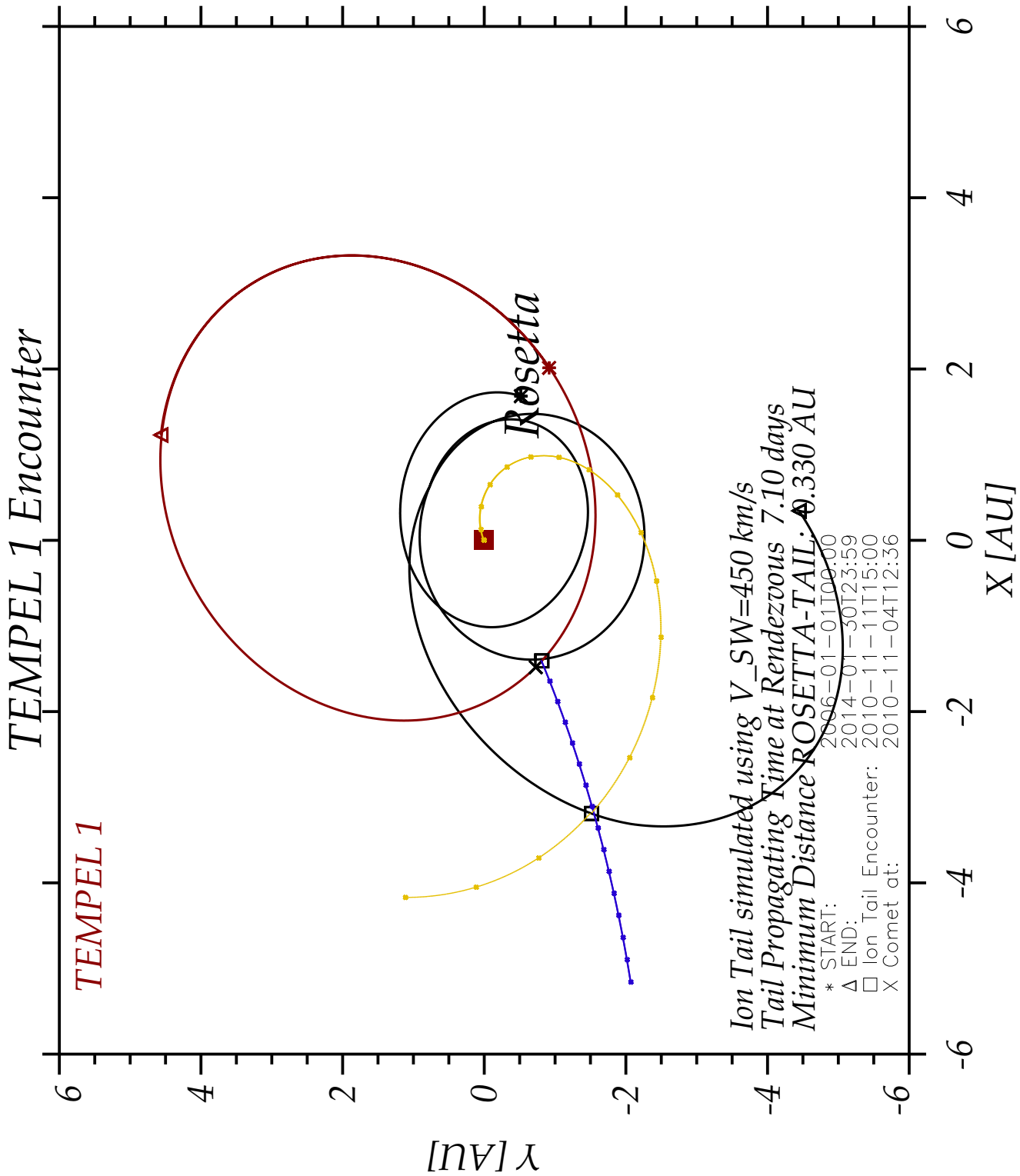


Figure 18: Overview: ROSETTA - TEMPEL 1

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12 Comet 10P/TEMPEL 2

Comet: 10P/TEMPEL 2
No Encounter below 0.2000AU

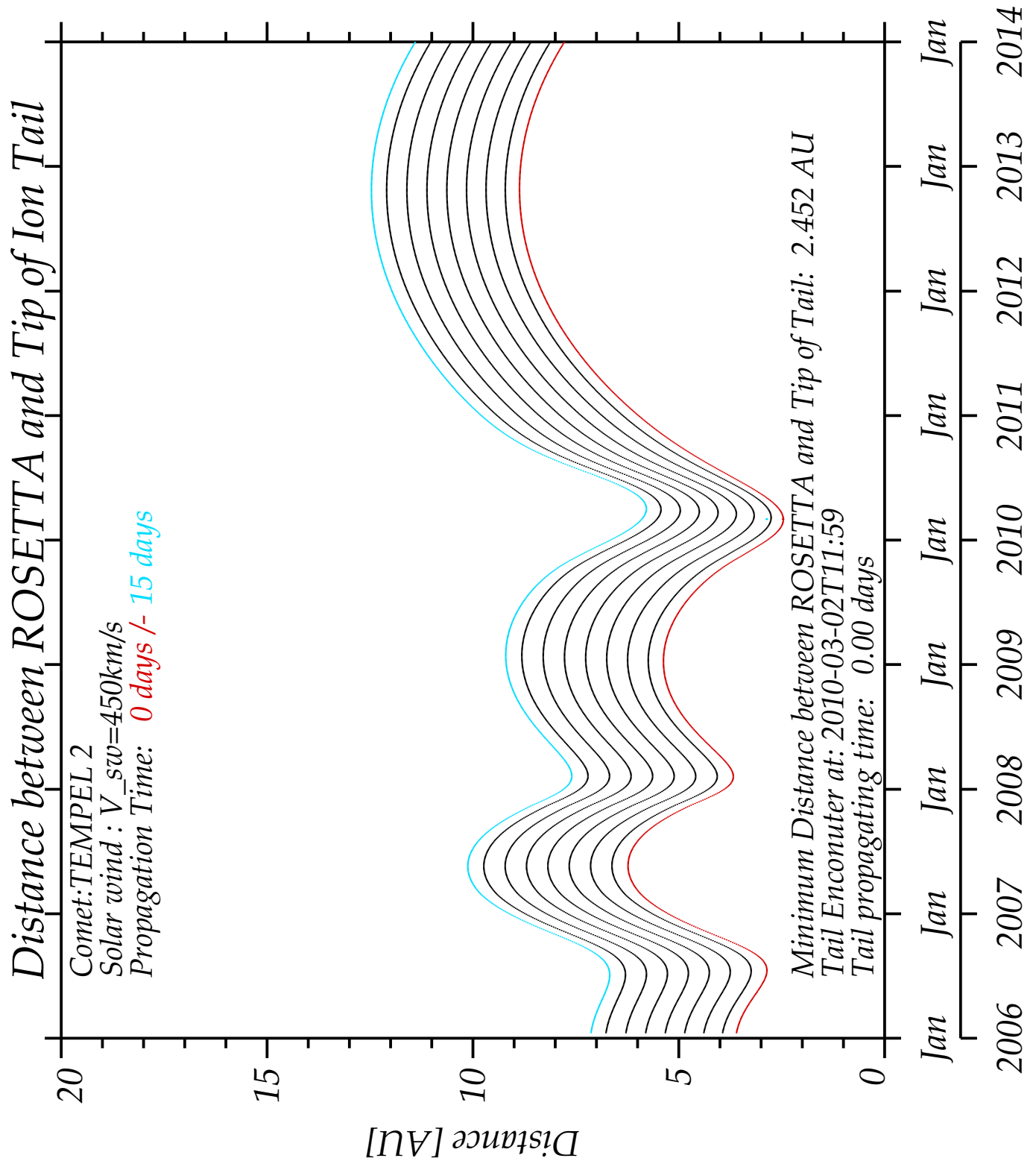


Figure 19: Minimum Distances: ROSETTA - TEMPEL 2

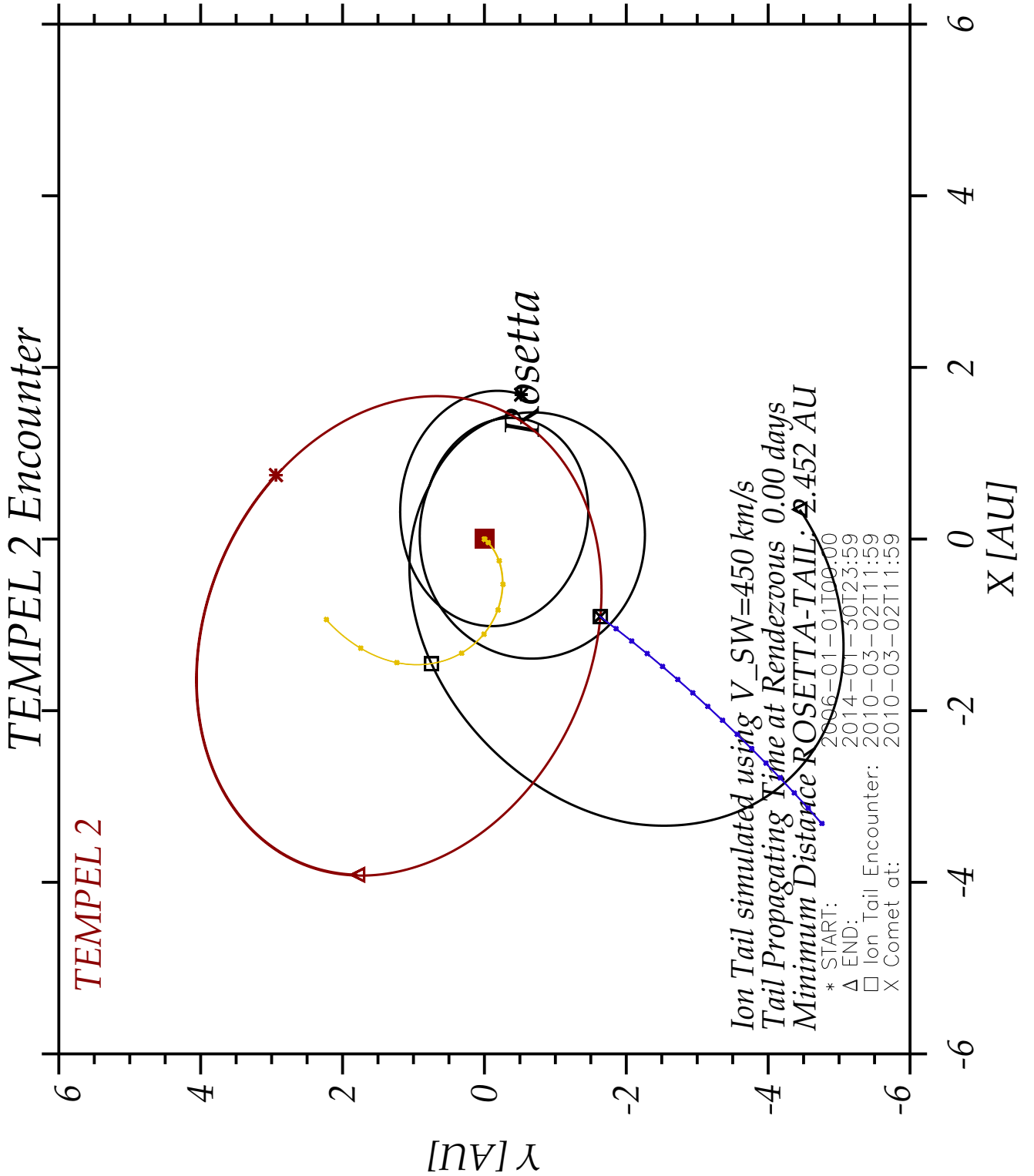


Figure 20: Overview: ROSETTA - TEMPEL 2

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13 Comet 11P/TEMPEL-SWIFT-LINEAR

Comet:	11P/TEMPEL-SWIFT-LINEAR				
Date of Encounter:	2012-02-09T23:59				
Minimum Distance					
ROSETTA/Ion Tail:	0.0650				AU
Position of ROSETTA	-2.8067	-4.2800	-0.1261	5.1197	AU,[x,y,z],r
Position of COMET:	-2.8069	-4.3201	-0.0751	5.1524	AU,[x,y,z],r
Velocity of ROSETTA	5.09	-6.71	-0.96	8.48	km/s,[vx,vy,vz],v
Velocity of COMET:	8.54	-2.88	2.14	9.26	km/s,[vx,vy,vz],v
Tail Intersection Angle:	70.2				deg
Velocity of ROSETTA					
normal to Tail:	7.98				km/s
Progagting Time					
of Tail	0.000				days

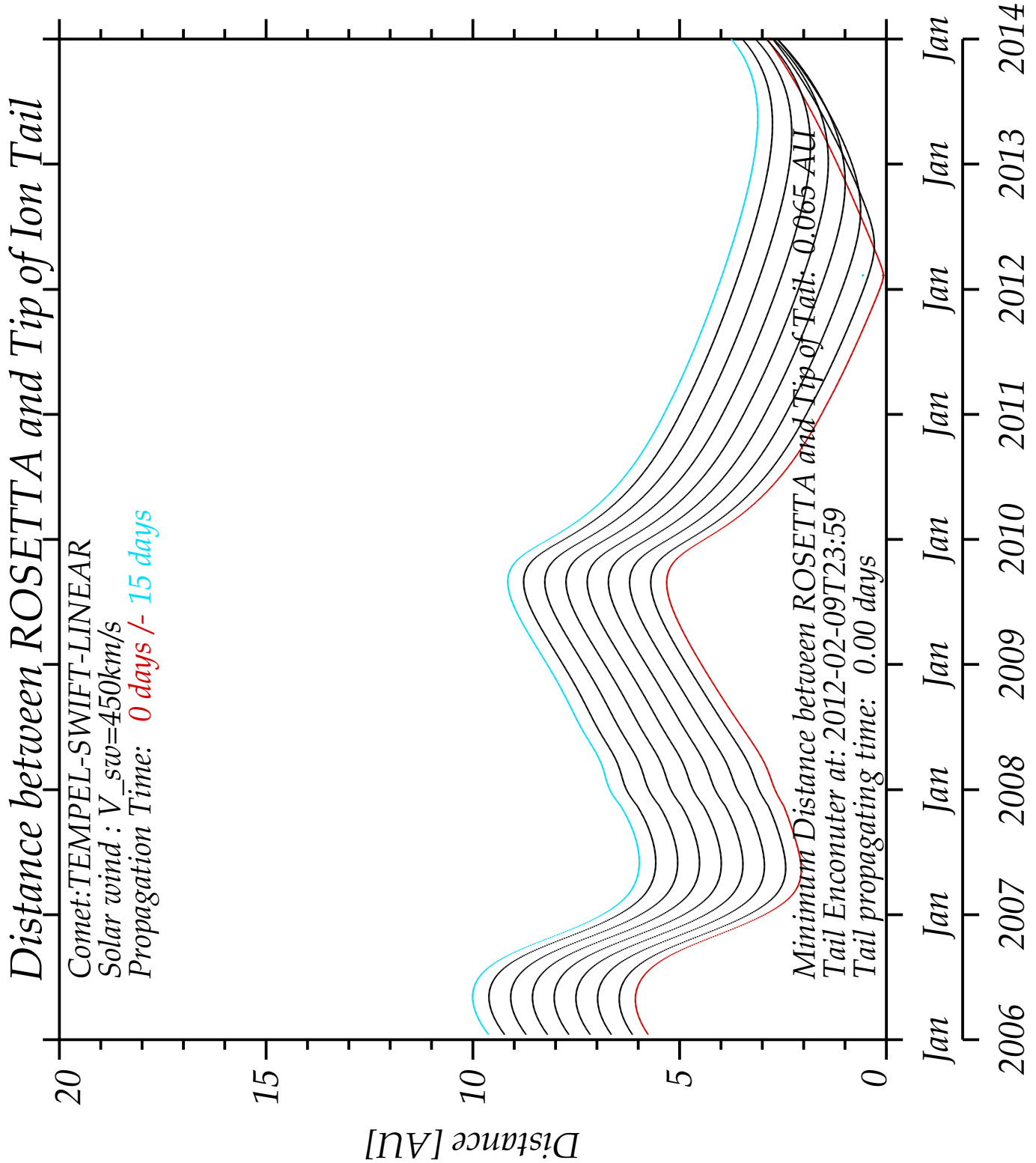


Figure 21: Minimum Distances: ROSETTA - TEMPEL-SWIFT-LINEAR

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14 Comet 12P/PONS-BROOKS

<p>Comet: 12P/PONS-BROOKS</p>
<p>No Encounter below 0.2000AU</p>

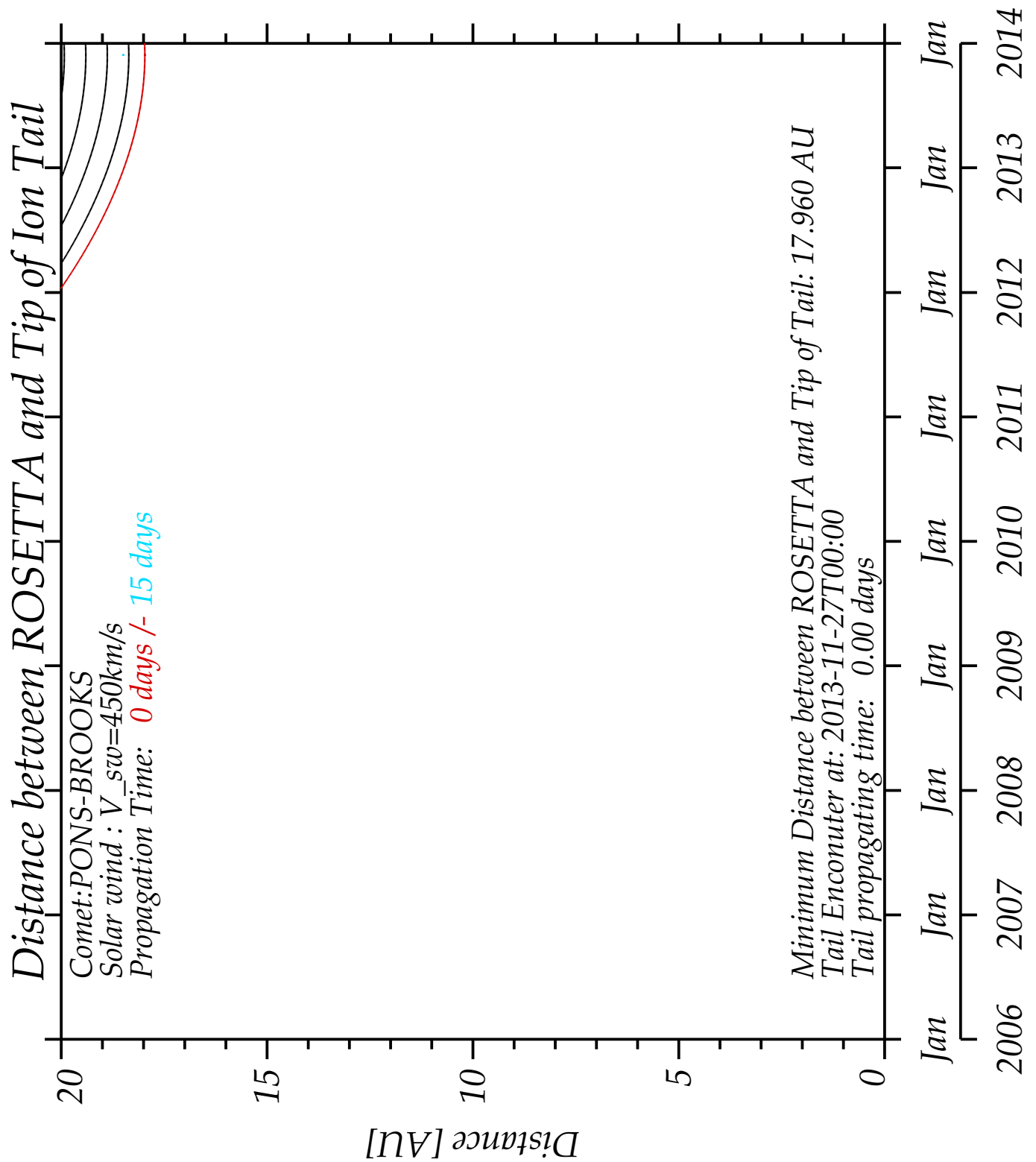


Figure 23: Minimum Distances: ROSETTA - PONS-BROOKS

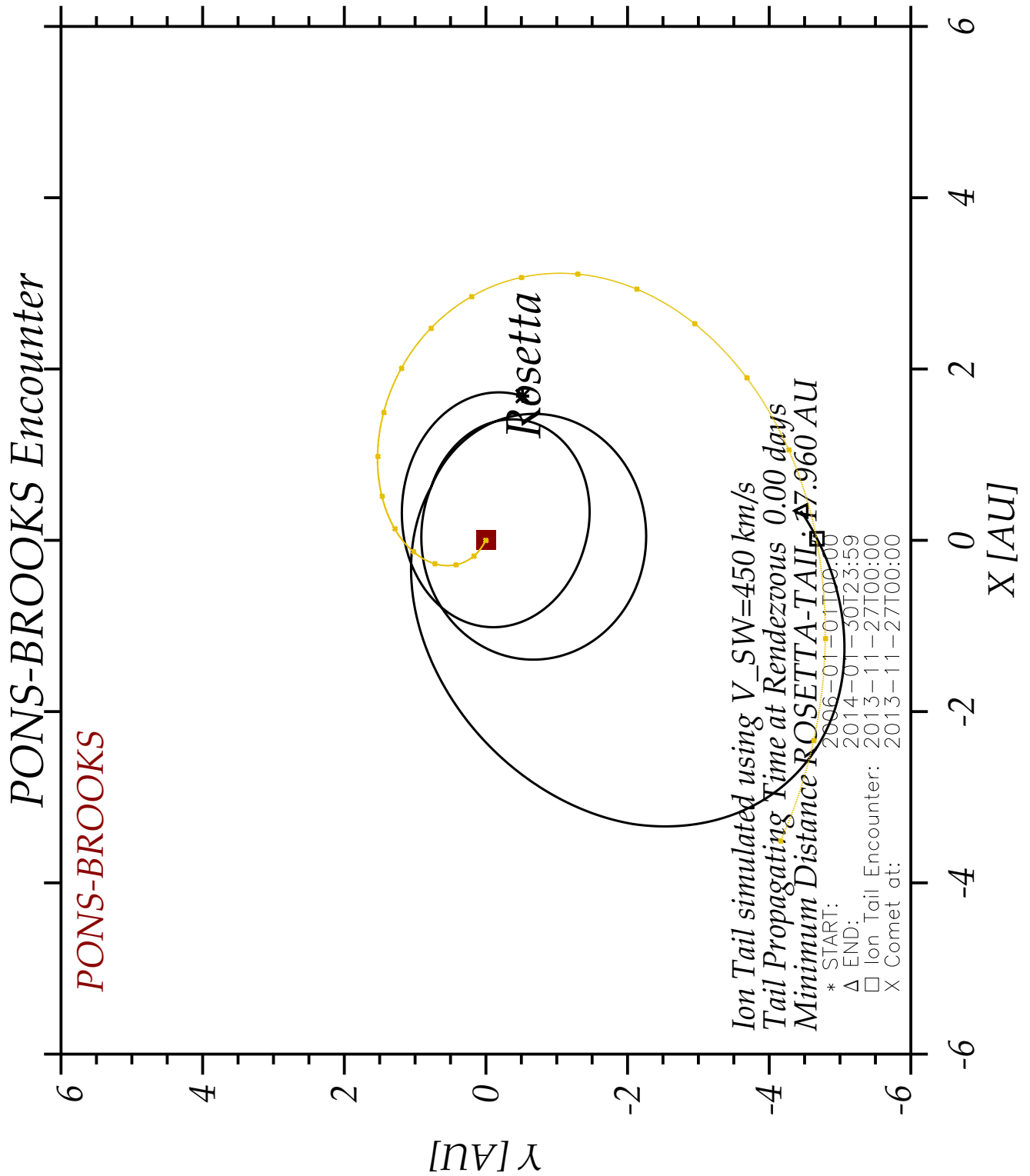


Figure 24: Overview: ROSETTA - PONS-BROOKS

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15 Comet 13P/OLBERS

Comet: 13P/OLBERS
No Encounter below 0.2000AU

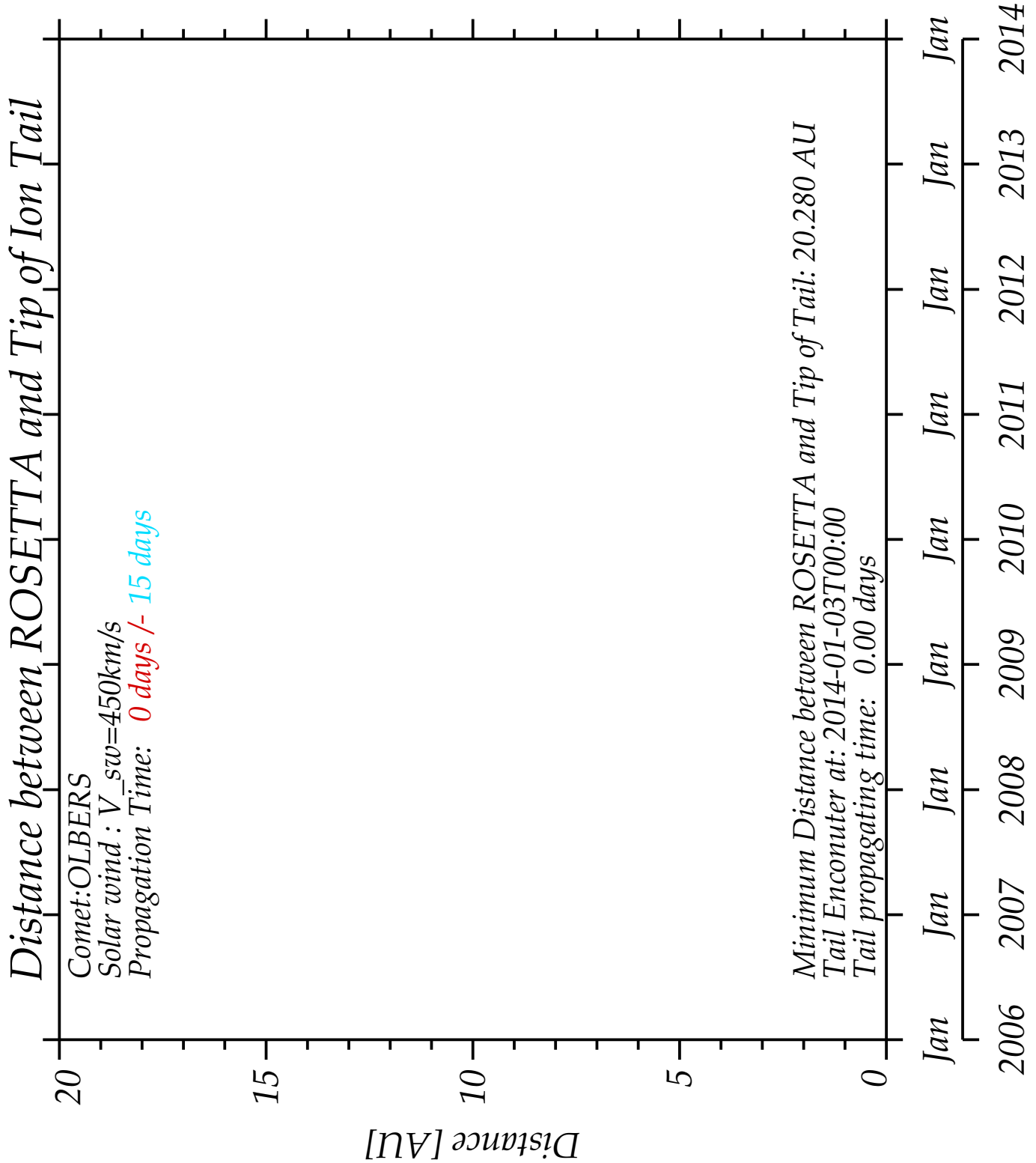


Figure 25: Minimum Distances: ROSETTA - OLBERS

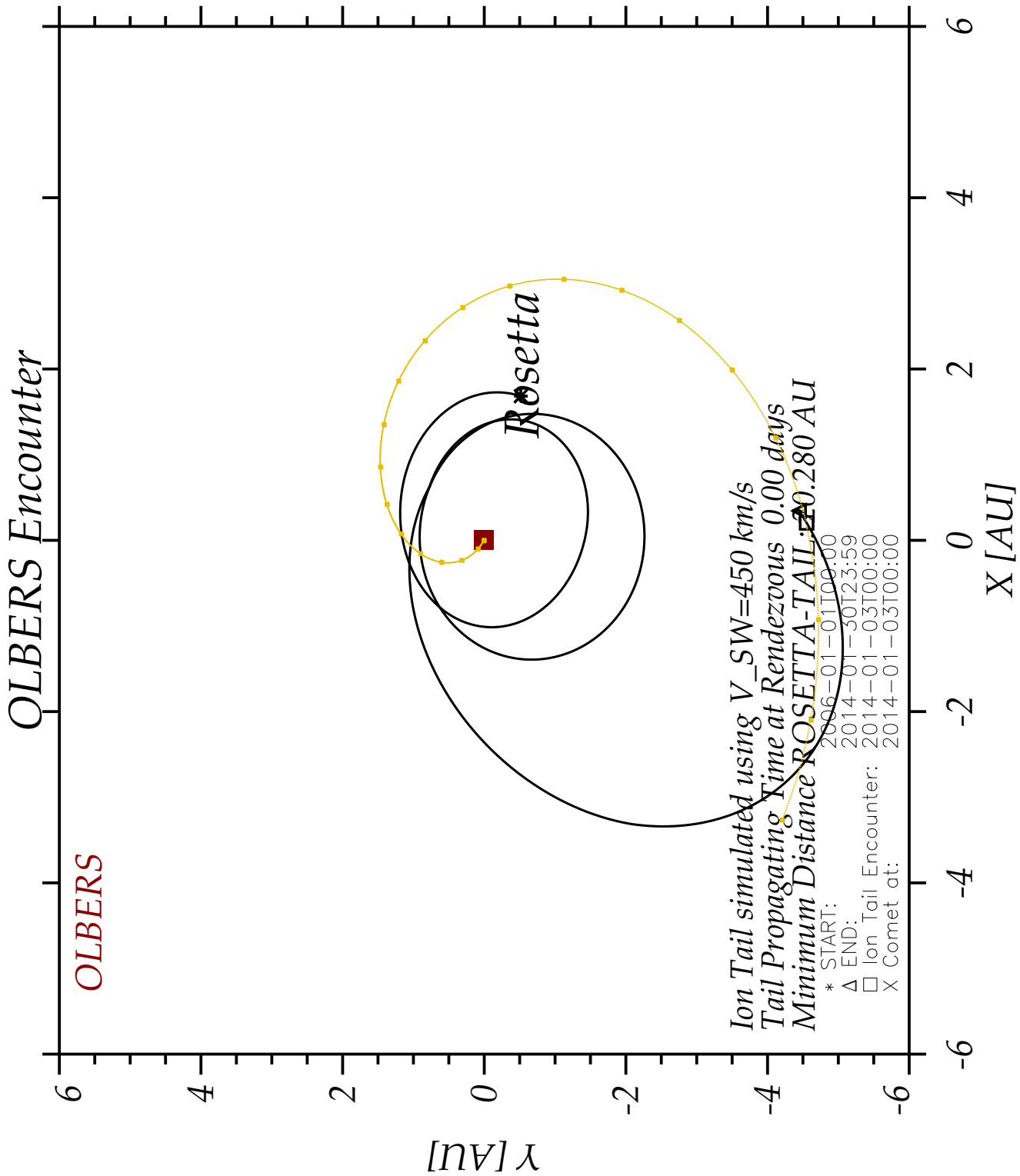


Figure 26: Overview: ROSETTA - OLBERS

<p style="text-align: center;">R O S E T T A</p>	<p>Document: RO-IGEP-TR-0020 Issue: 1 Revision: 2</p>
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16 Comet 14P/WOLF

<p>Comet: 14P/WOLF</p>
<p>No Encounter below 0.2000AU</p>

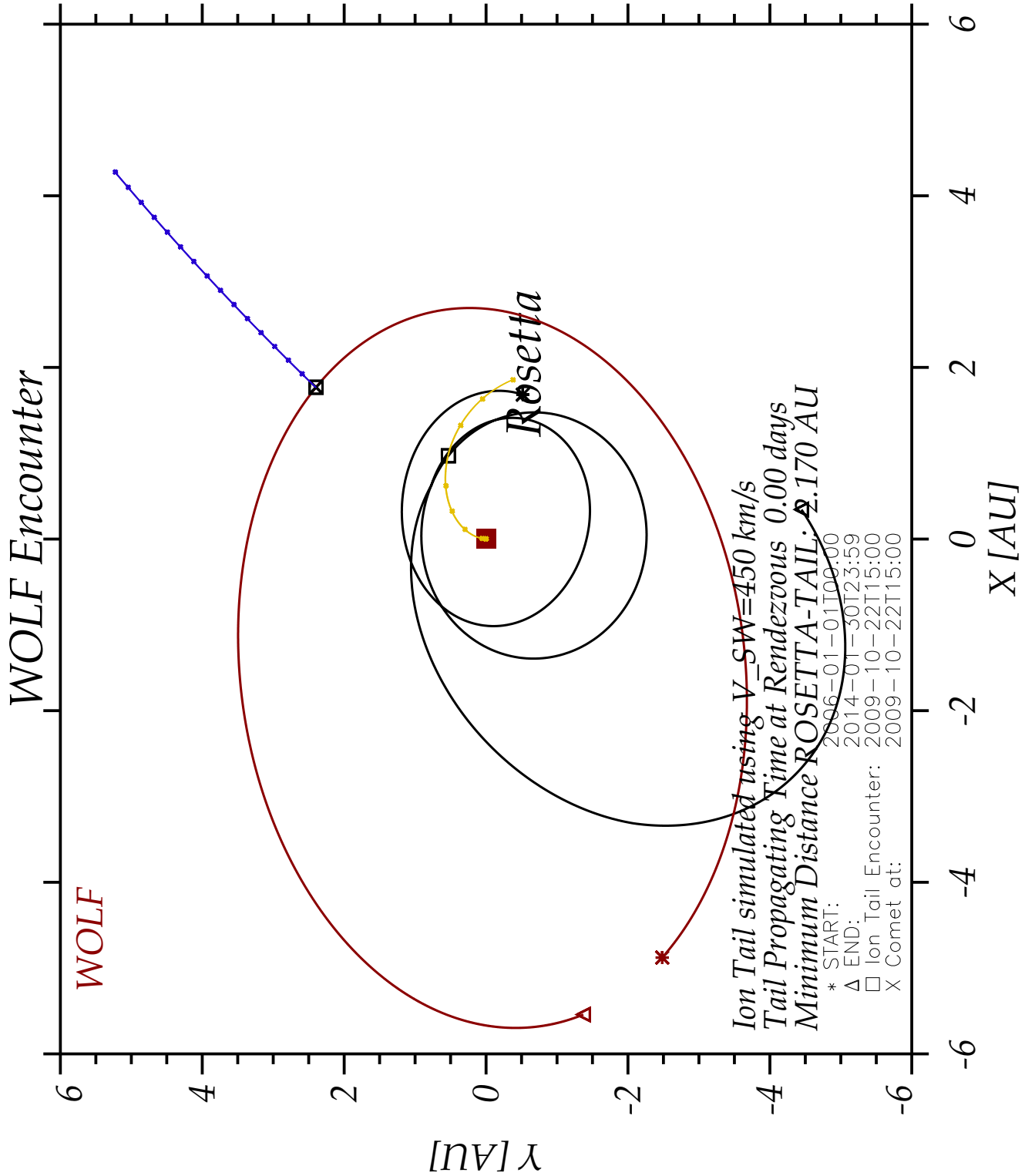


Figure 28: Overview: ROSETTA - WOLF

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17 Comet 15P/FINLAY

Comet: 15P/FINLAY
No Encounter below 0.2000AU

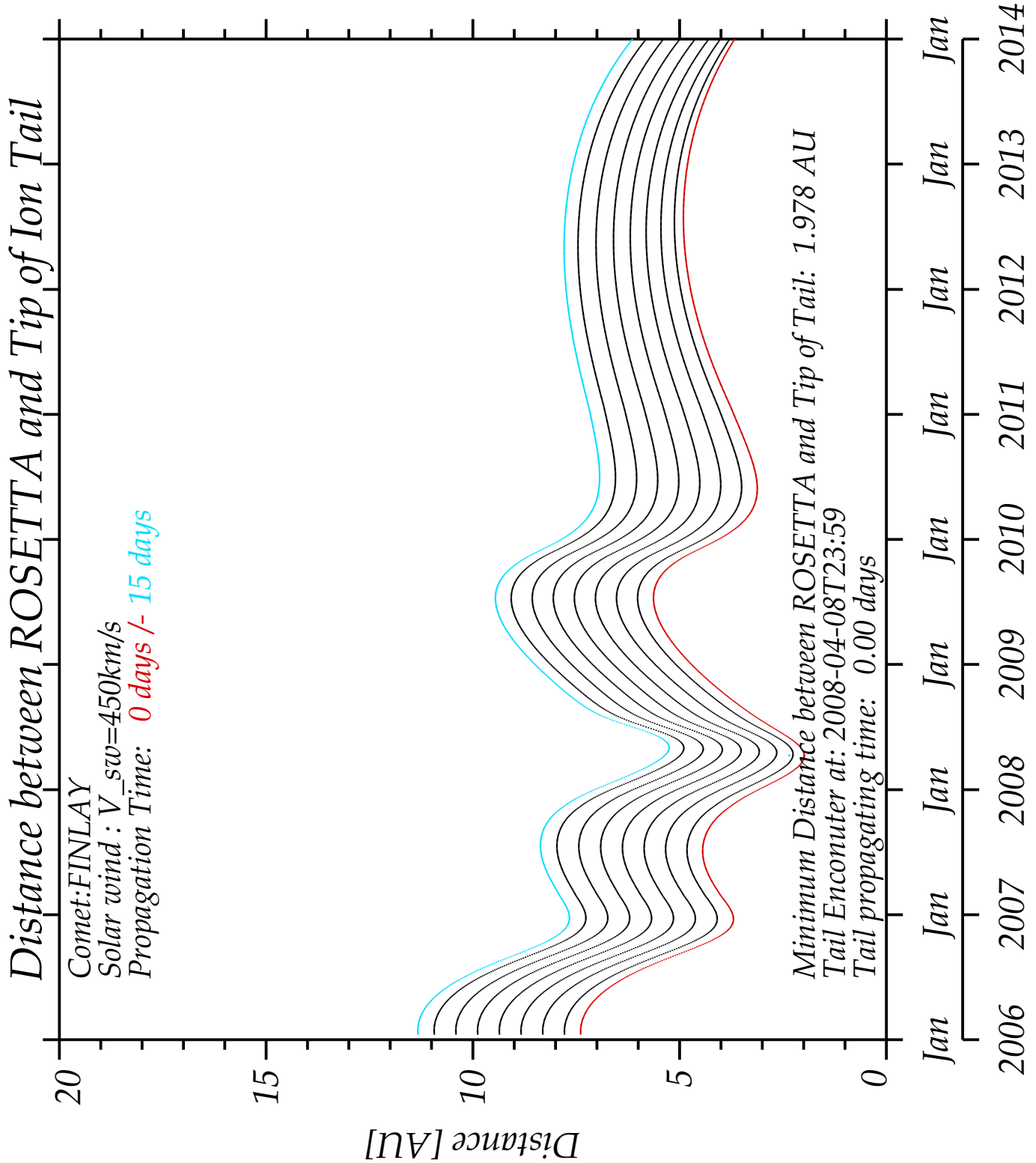


Figure 29: Minimum Distances: ROSETTA - FINLAY

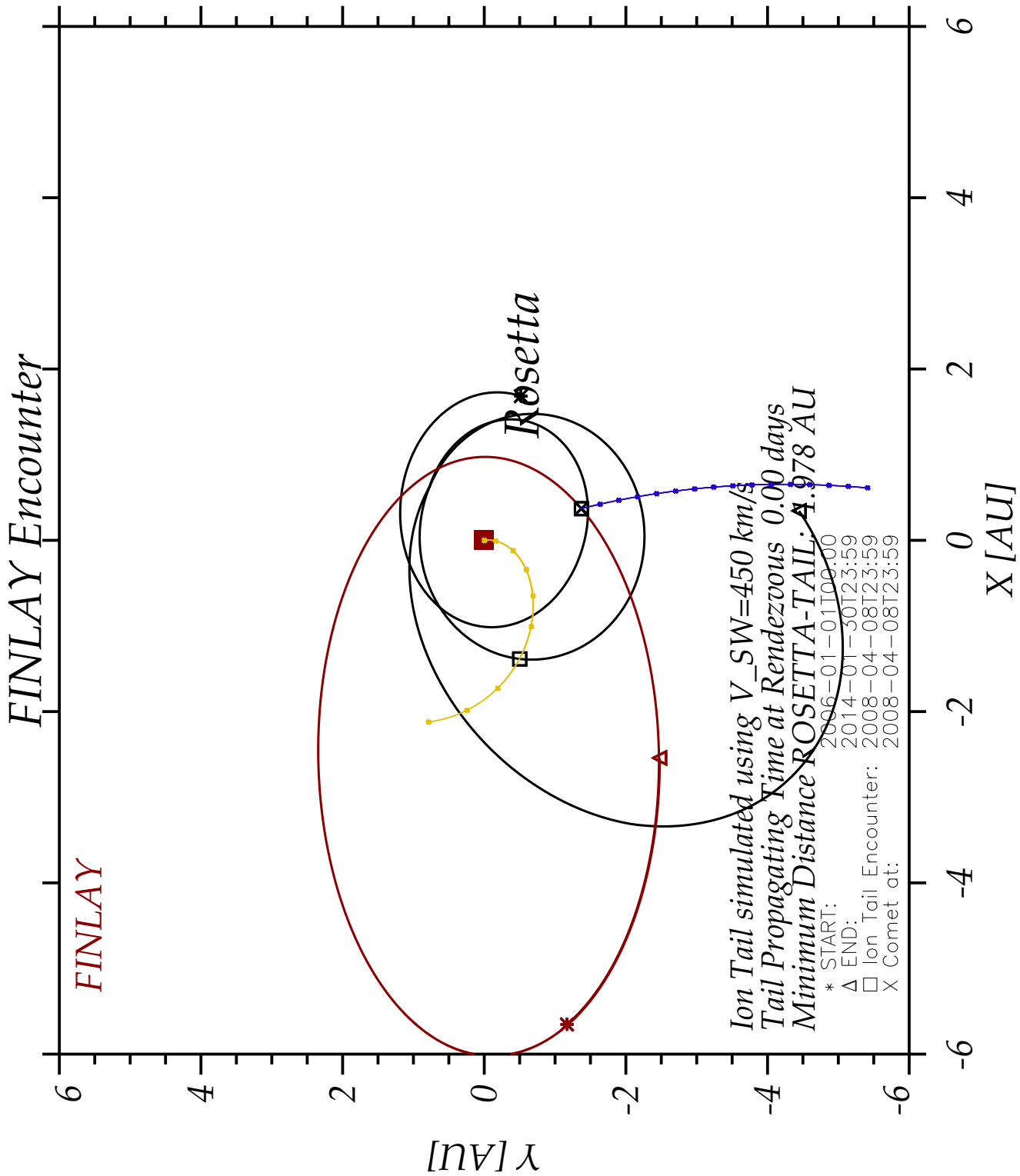


Figure 30: Overview: ROSETTA - FINLAY

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18 Comet 16P/BROOKS 2

Comet: 16P/BROOKS 2
No Encounter below 0.2000AU

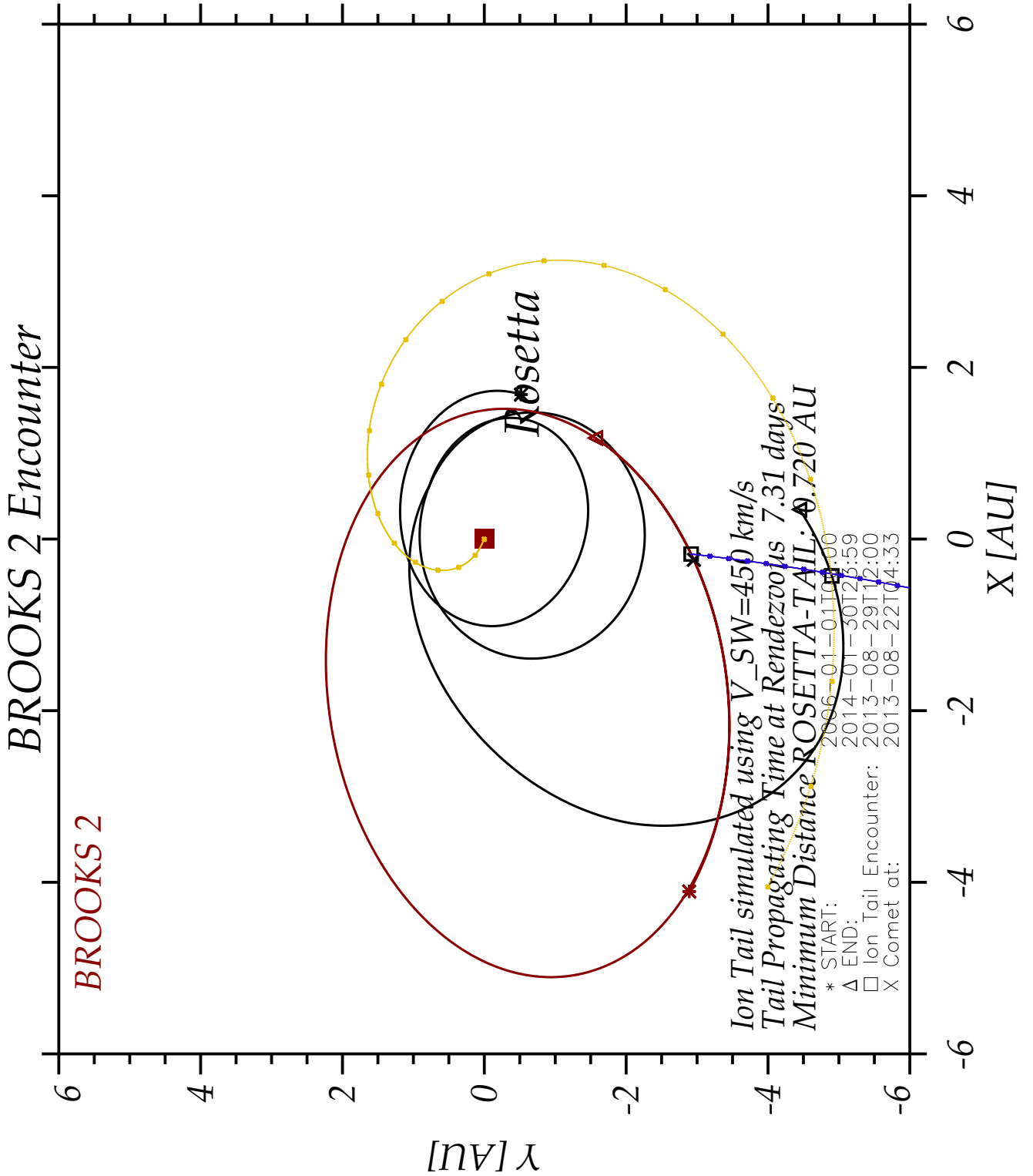


Figure 32: Overview: ROSETTA - BROOKS 2

<p style="text-align: center;">R O S E T T A</p>	<p>Document: RO-IGEP-TR-0020 Issue: 1 Revision: 2 Date: 2006-10-25 Page: 50</p>
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19 Comet 17P/HOLMES

<p>Comet: 17P/HOLMES</p>
<p>No Encounter below 0.2000AU</p>

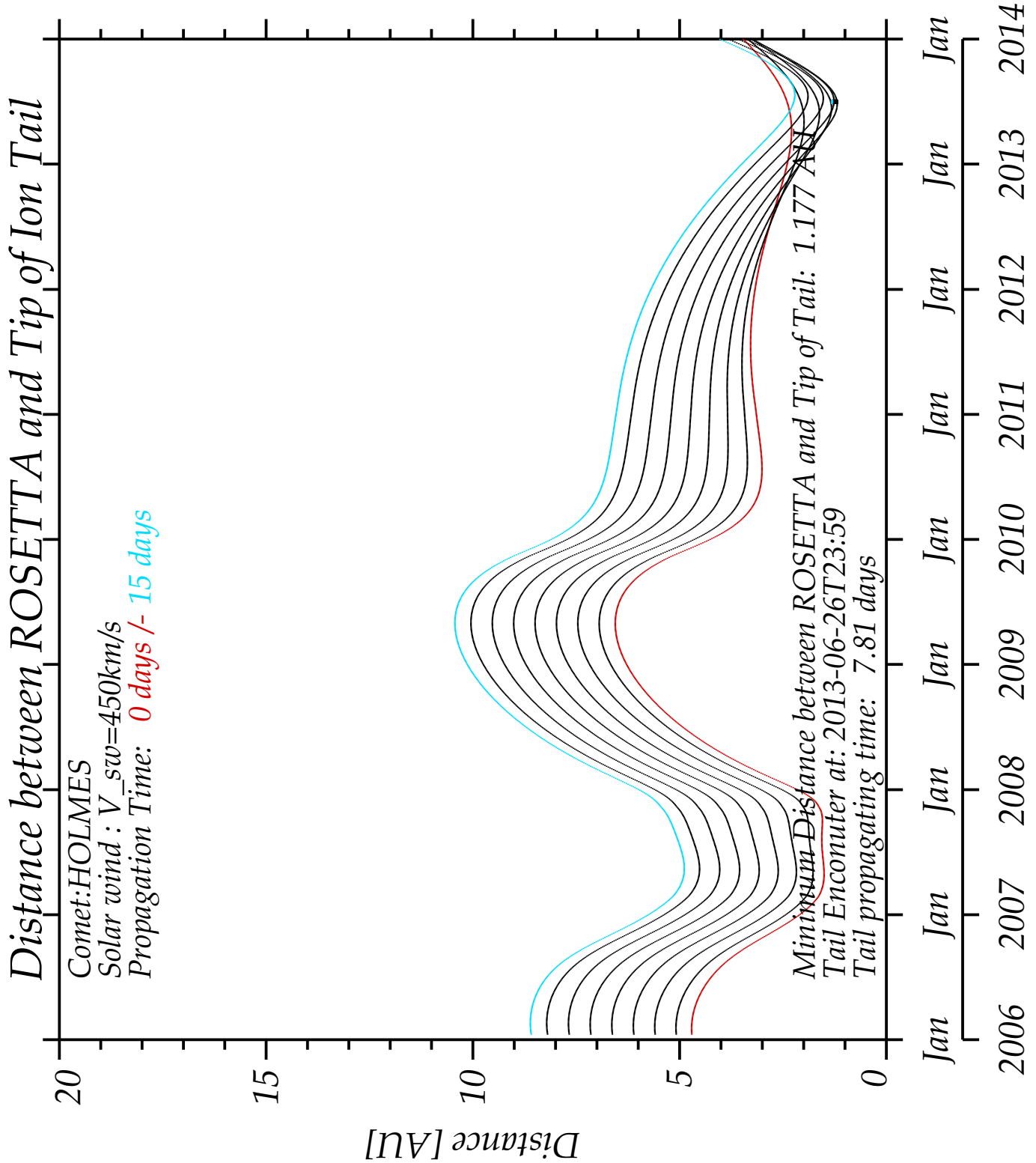


Figure 33: Minimum Distances: ROSETTA - HOLMES

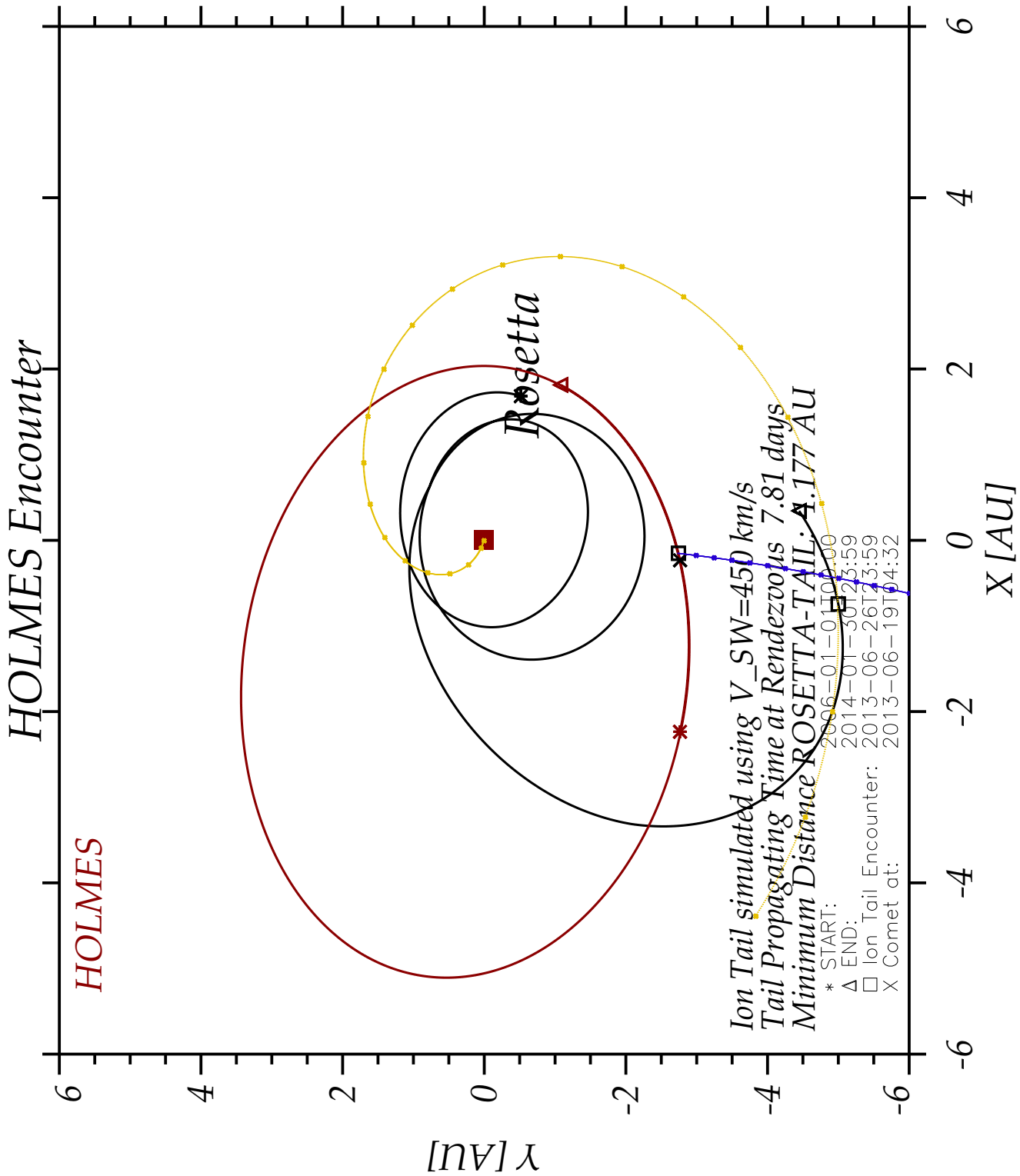


Figure 34: Overview: ROSETTA - HOLMES

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20 Comet 18D/PERRINE-MRKOS

Comet: 18D/PERRINE-MRKOS
No Encounter below 0.2000AU

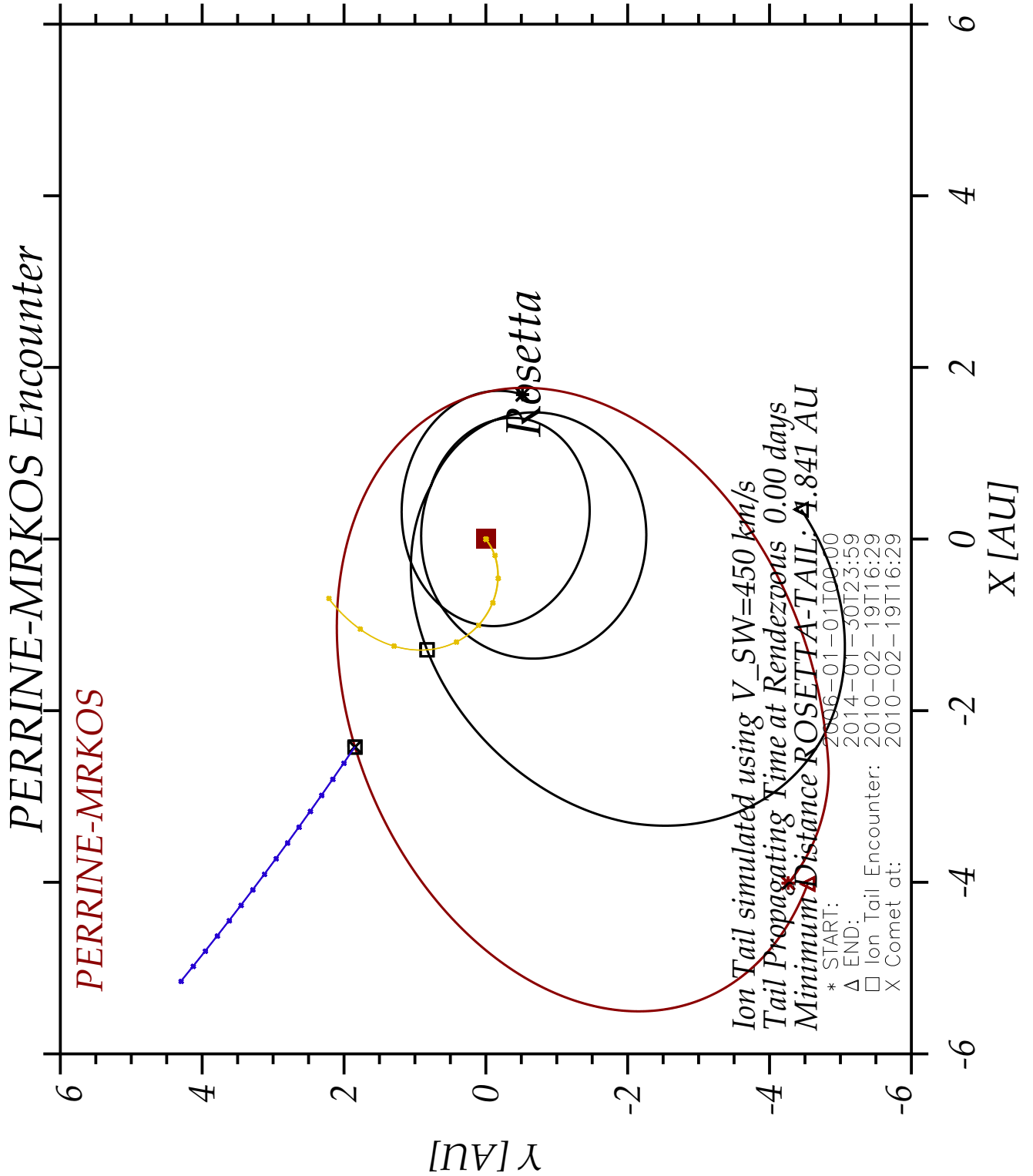


Figure 36: Overview: ROSETTA - PERRINE-MRKOS

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21 Comet 19P/BORRELLY

Comet: 19P/BORRELLY
No Encounter below 0.2000AU

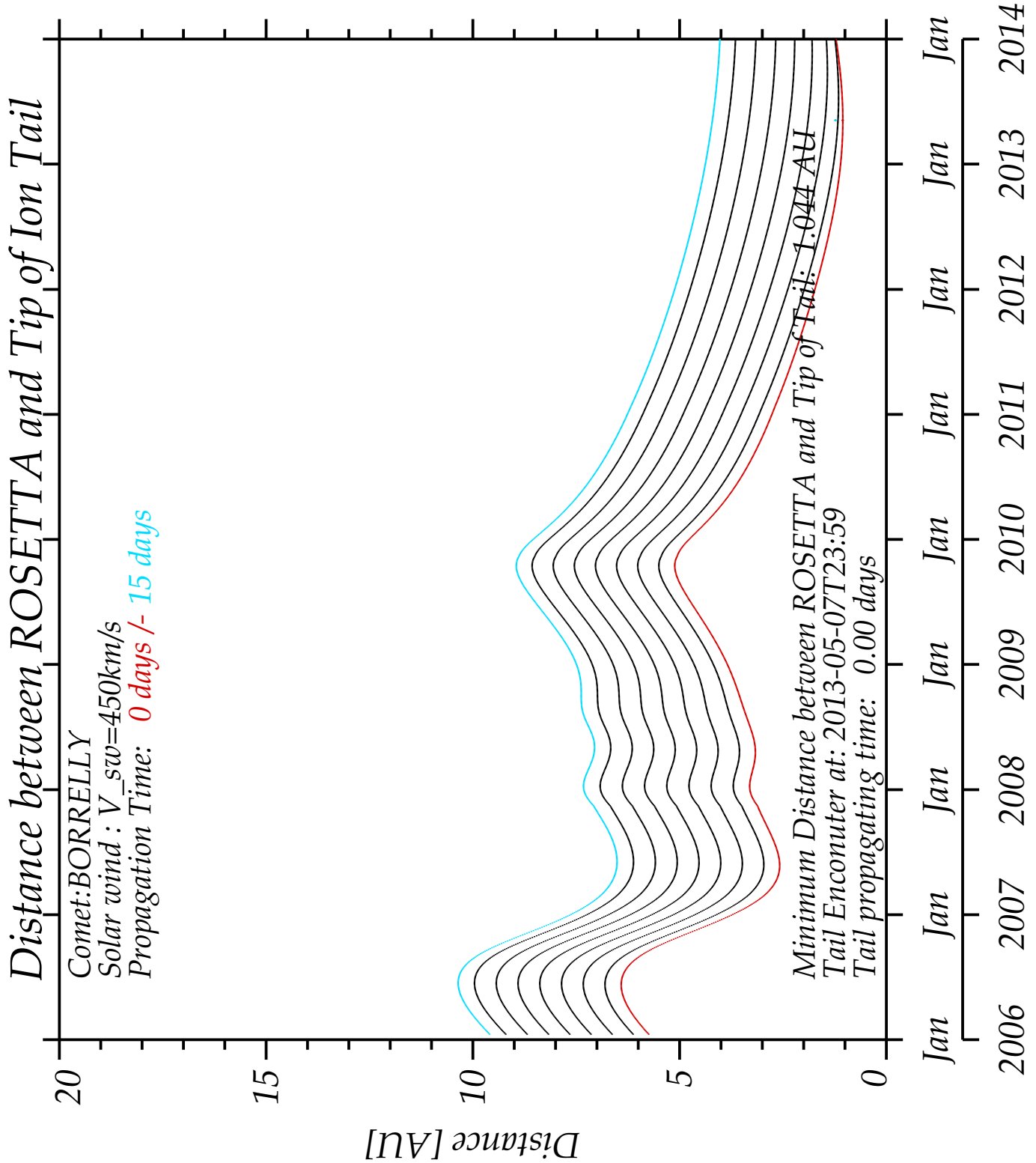


Figure 37: Minimum Distances: ROSETTA - BORRELLY

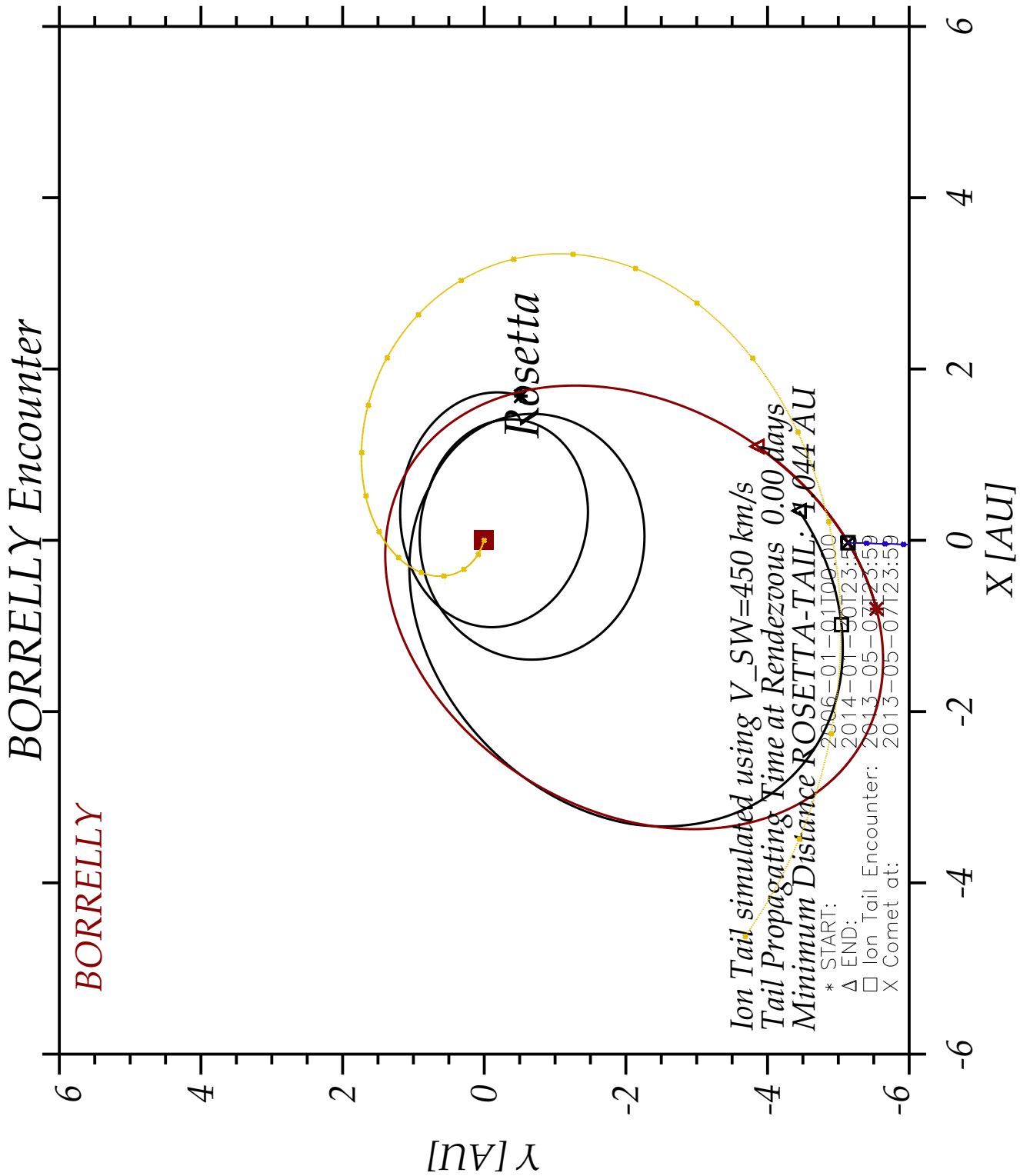


Figure 38: Overview: ROSETTA - BORRELLY

<p style="text-align: center;">R O S E T T A</p>	<p>Document: RO-IGEP-TR-0020 Issue: 1 Revision: 2</p>
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22 Comet 20D/WESTPHAL

<p>Comet: 20D/WESTPHAL</p>
<p>No Encounter below 0.2000AU</p>

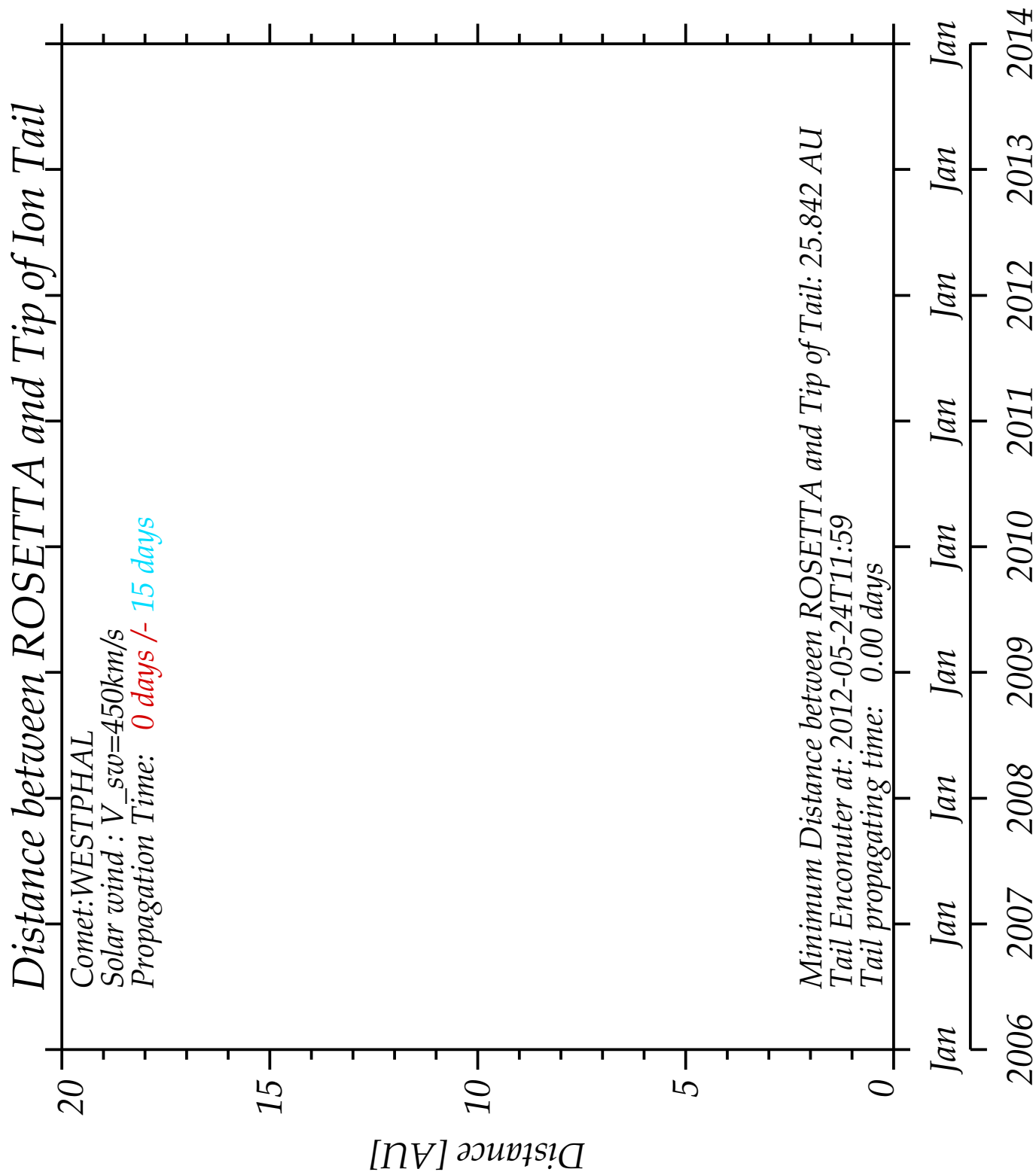


Figure 39: Minimum Distances: ROSETTA - WESTPHAL

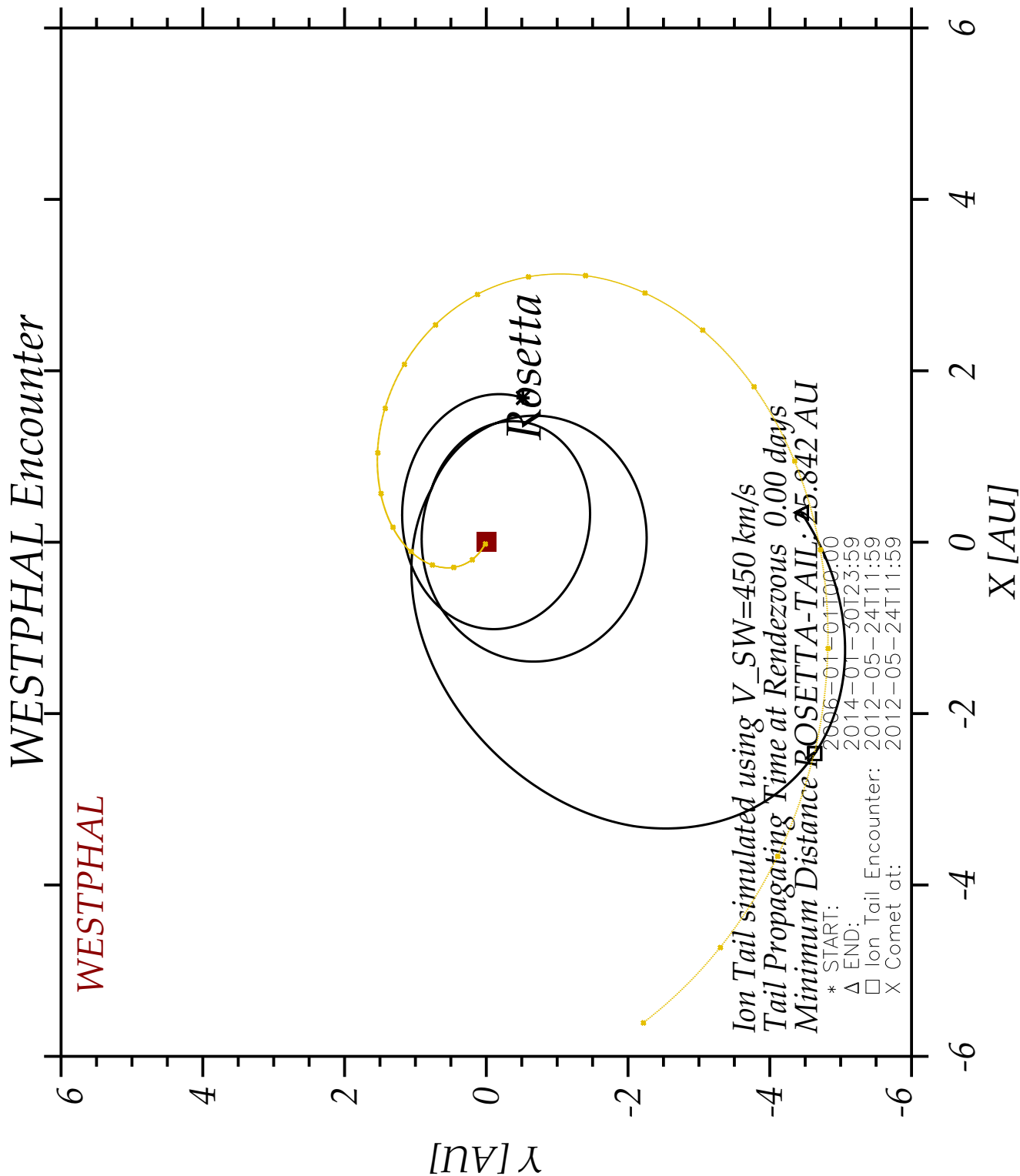


Figure 40: Overview: ROSETTA - WESTPHAL

<p style="text-align: center;">R O S E T T A</p>	<p>Document: RO-IGEP-TR-0020 Issue: 1 Revision: 2 Date: 2006-10-25 Page: 62</p>
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23 Comet 21P/GIACOBINI-ZINNER

<p>Comet: 21P/GIACOBINI-ZINNER</p>
<p>No Encounter below 0.2000AU</p>

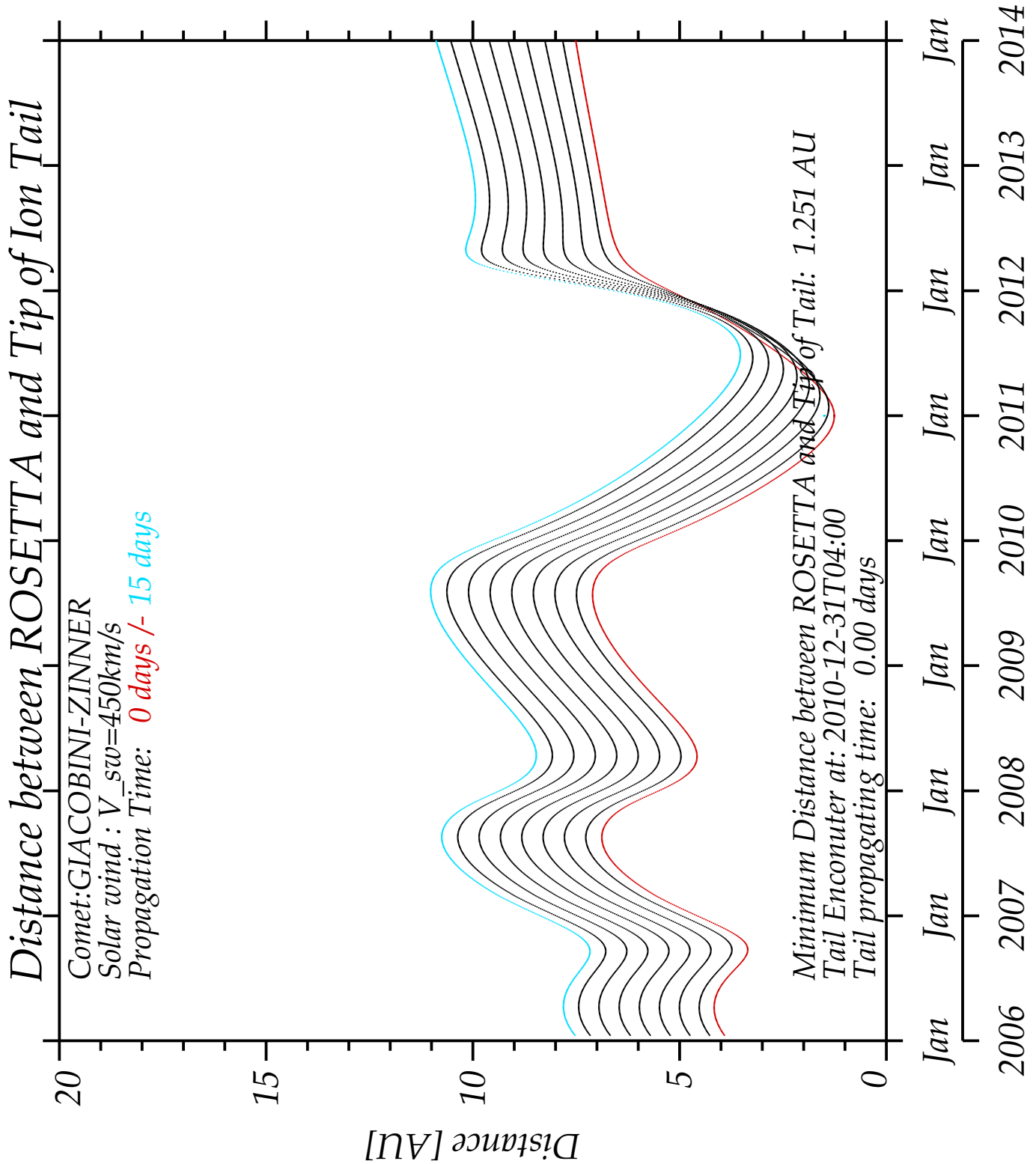


Figure 41: Minimum Distances: ROSETTA - GIACOBINI-ZINNER

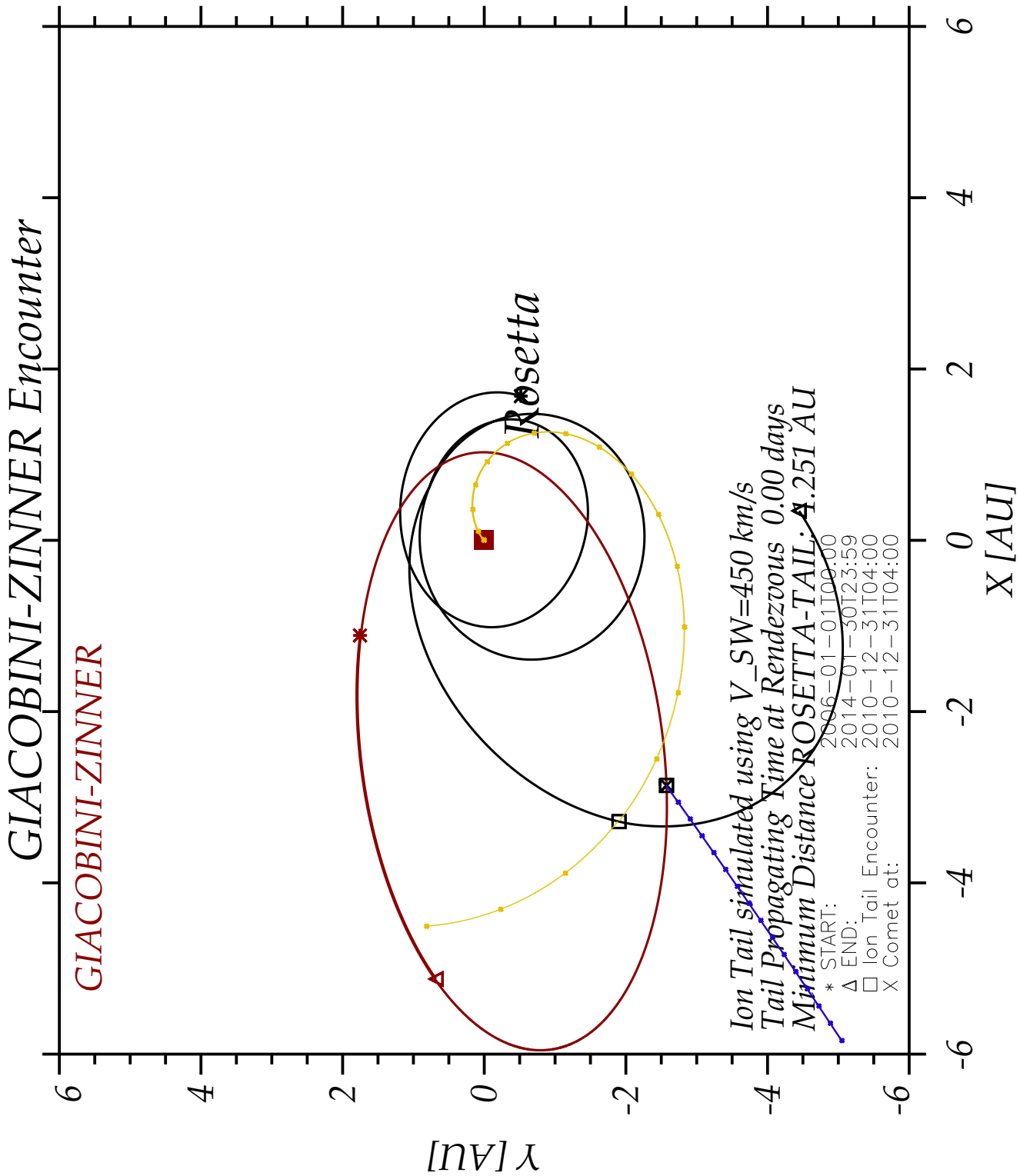


Figure 42: Overview: ROSETTA - GIACOBINI-ZINNER

<h1 style="margin: 0;">R O S E T T A</h1>	Document: RO-IGEP-TR-0020 Issue: 1 Revision: 2
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24 Comet 22P/KOPFF

Comet: 22P/KOPFF
No Encounter below 0.2000AU

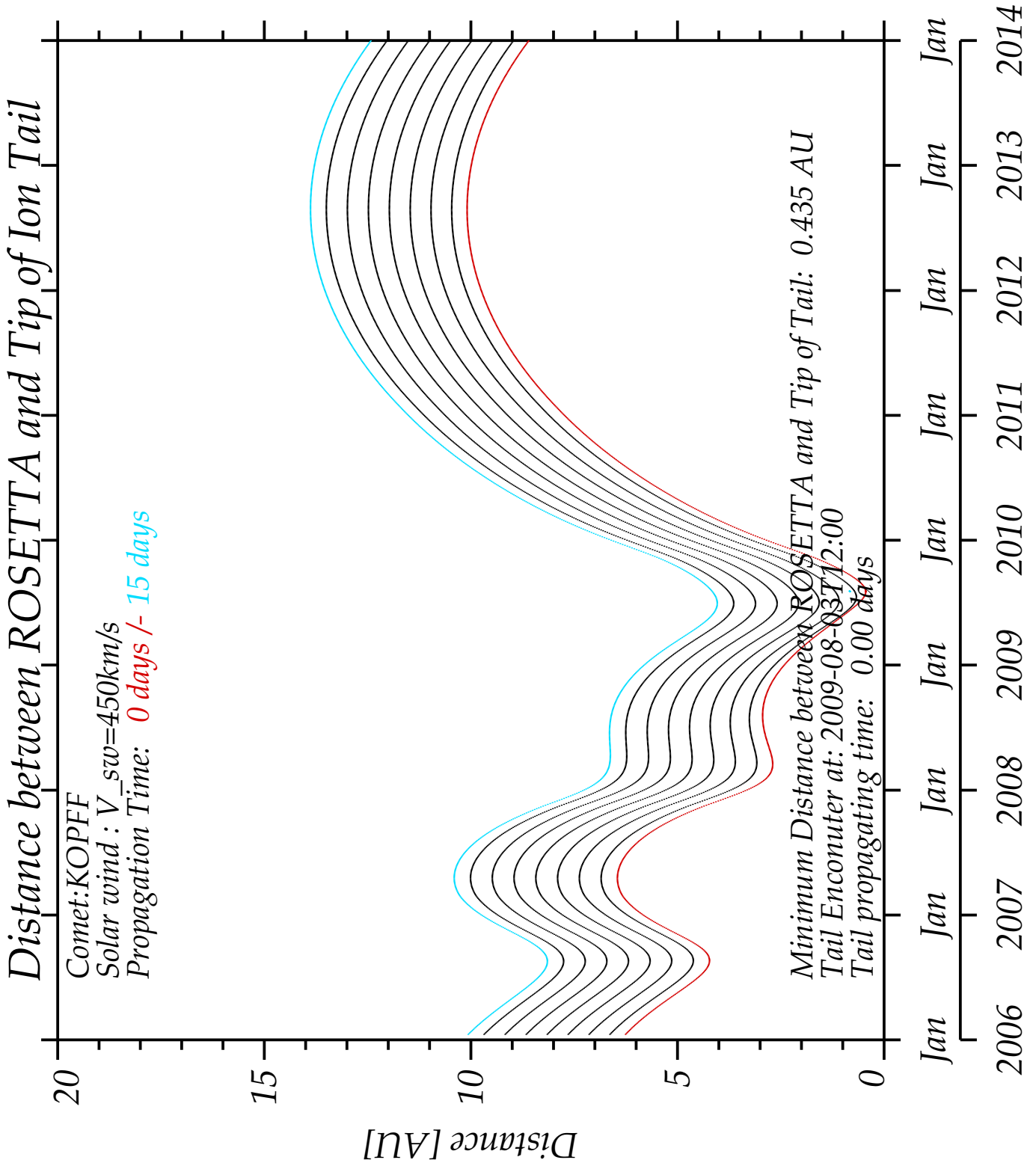


Figure 43: Minimum Distances: ROSETTA - KOPFF

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25 Comet 23P/BORSEN-METCALF

Comet: 23P/BORSEN-METCALF
No Encounter below 0.2000AU

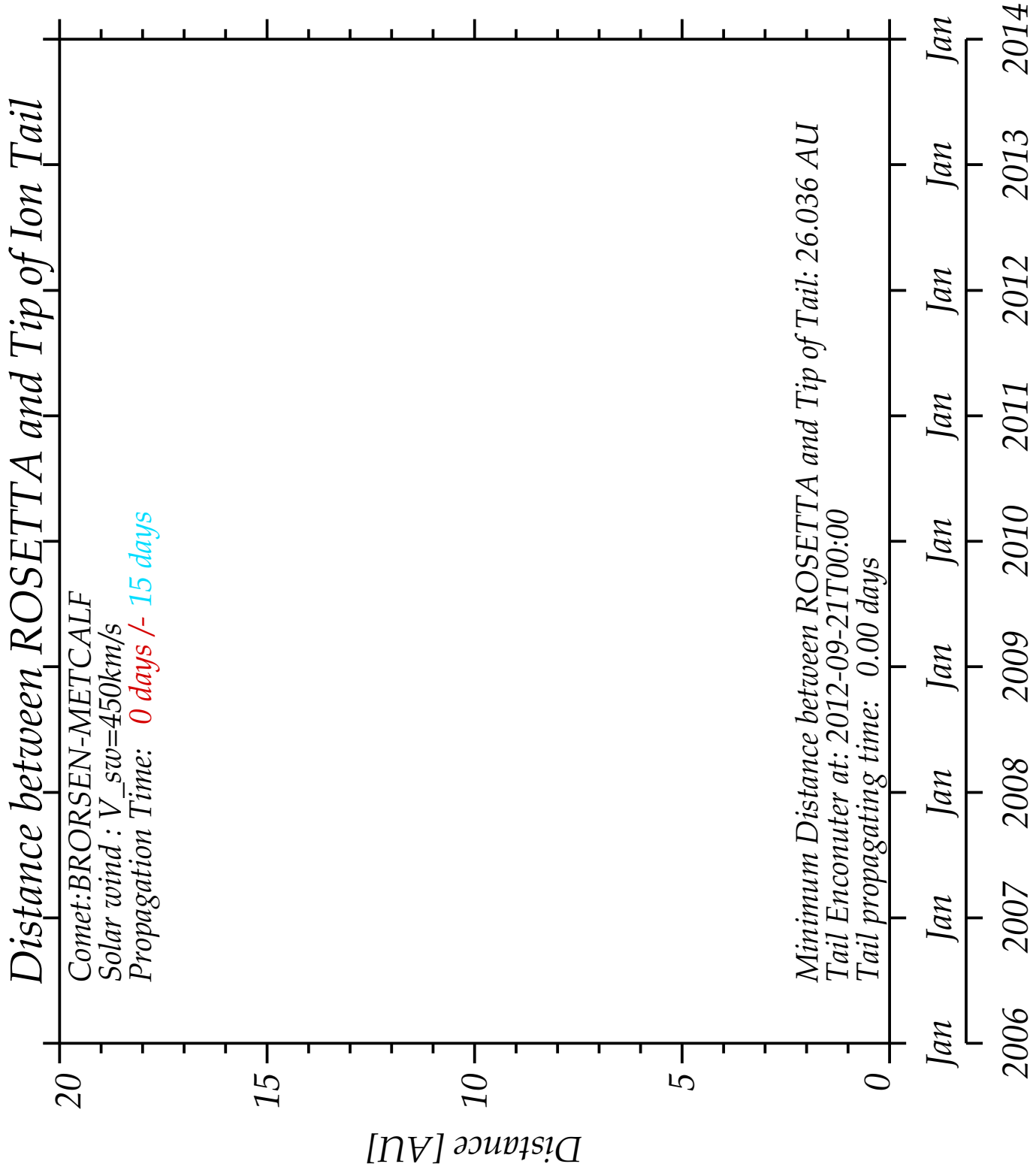


Figure 45: Minimum Distances: ROSETTA - BRORSEN-METCALF

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26 Comet 24P/SCHAUMASSE

Comet: 24P/SCHAUMASSE
No Encounter below 0.2000AU

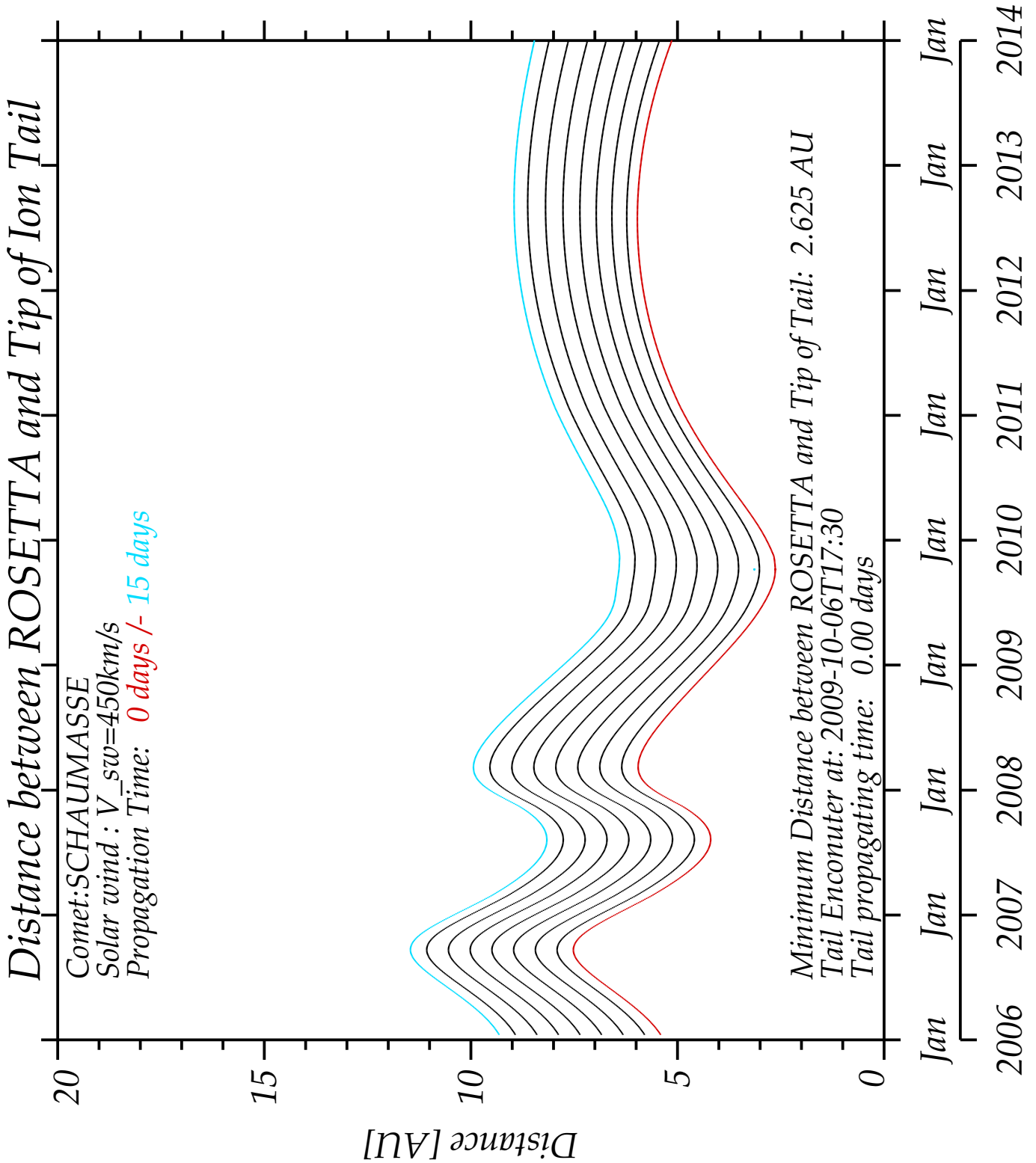


Figure 47: Minimum Distances: ROSETTA - SCHAUMASSE

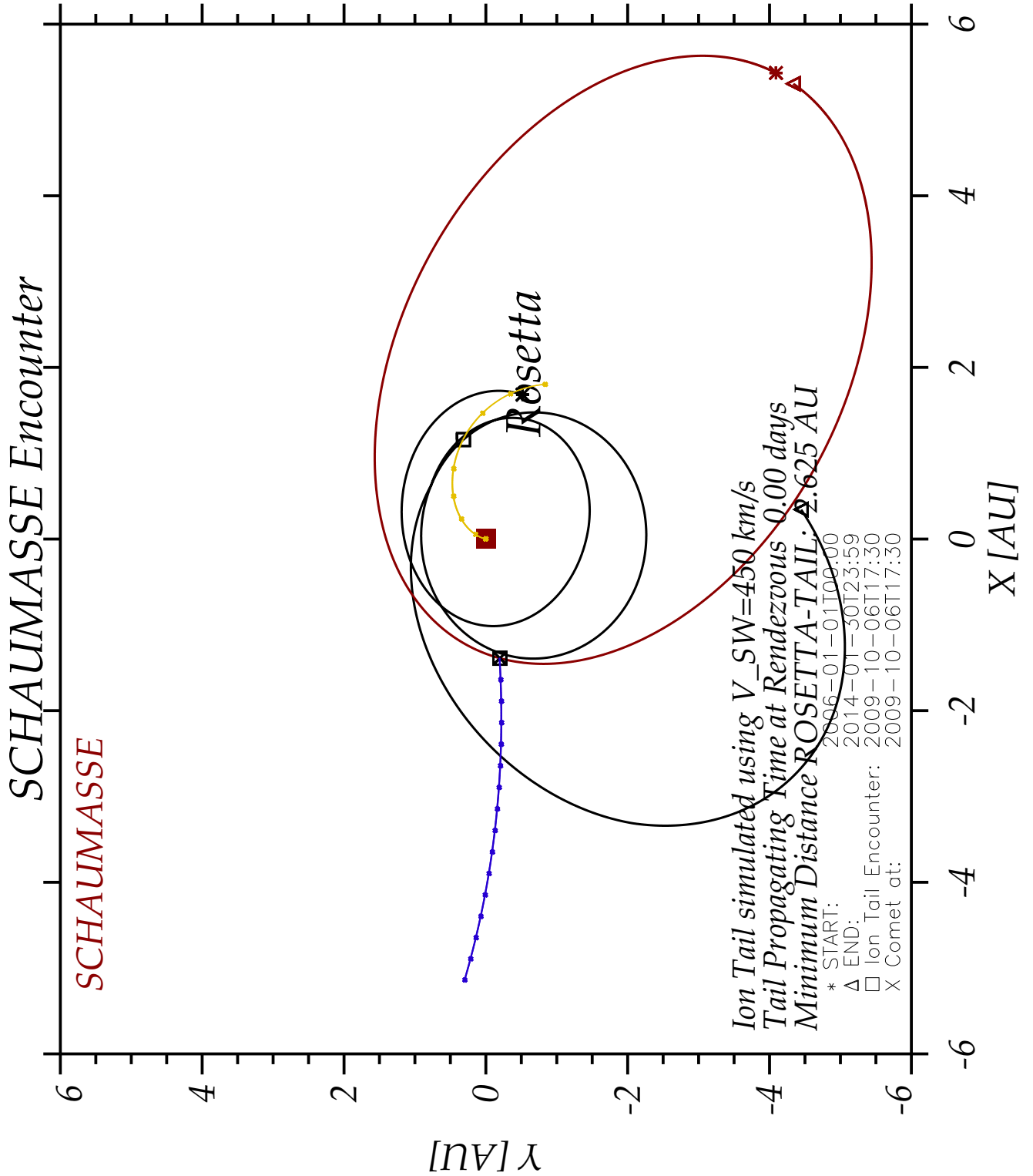


Figure 48: Overview: ROSETTA - SCHAUMASSE

<p style="text-align: center;">R O S E T T A</p>	<p>Document: RO-IGEP-TR-0020 Issue: 1 Revision: 2 Date: 2006-10-25 Page: 74</p>
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27 Comet 25D/NEUJMIN 2

<p>Comet: 25D/NEUJMIN 2</p>
<p>No Encounter below 0.2000AU</p>

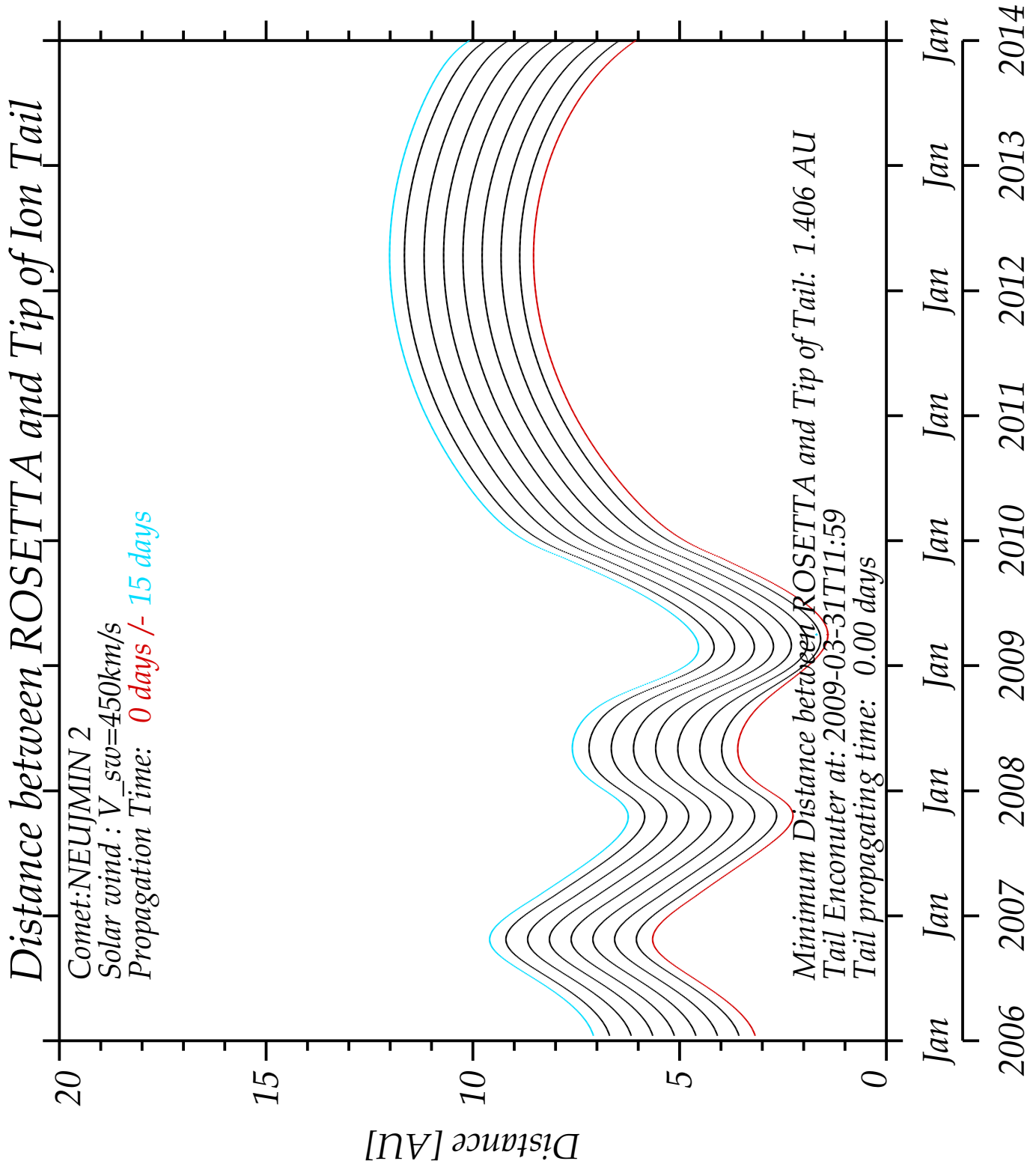


Figure 49: Minimum Distances: ROSETTA - NEUJMIN 2

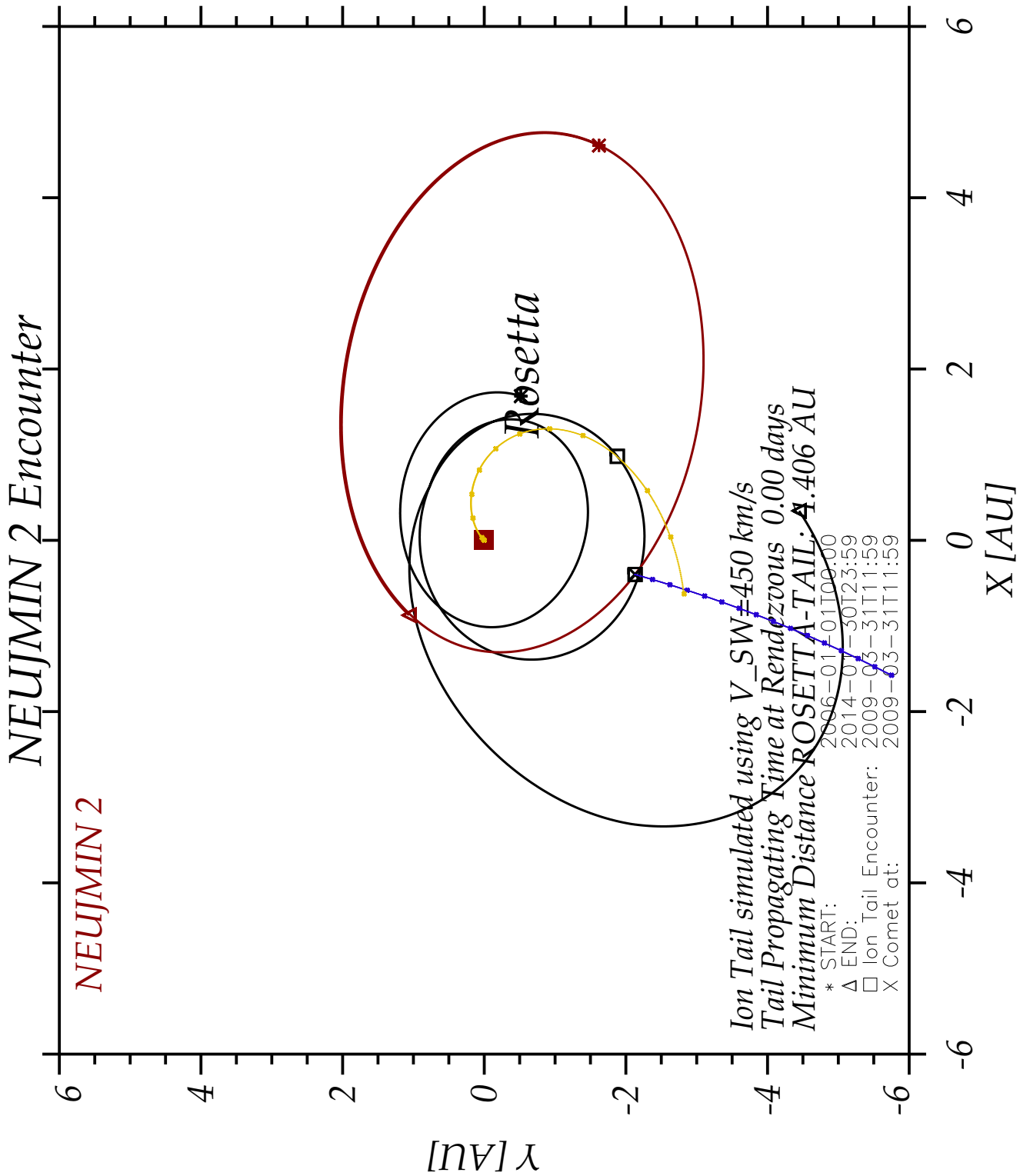


Figure 50: Overview: ROSETTA - NEUJMIN 2

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28 Comet 26P/GRIGG-SKJELLERUP

Comet: 26P/GRIGG-SKJELLERUP
No Encounter below 0.2000AU

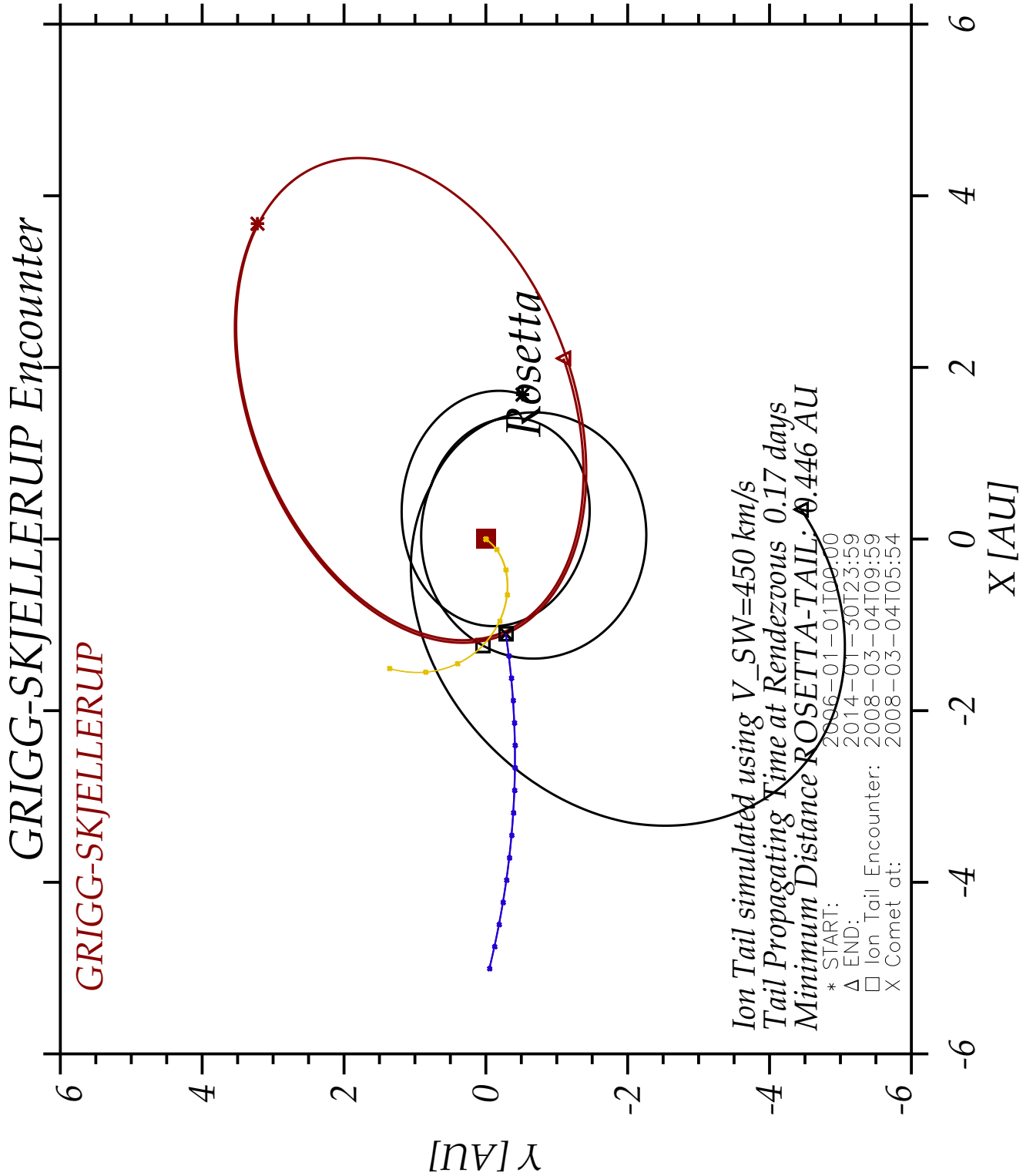


Figure 52: Overview: ROSETTA - GRIGG-SKJELLERUP

<h1>ROSETTA</h1>	Document: RO-IGEP-TR-0020 Issue: 1 Revision: 2
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29 Comet 27P/CROMMELIN

Comet: 27P/CROMMELIN
No Encounter below 0.2000AU

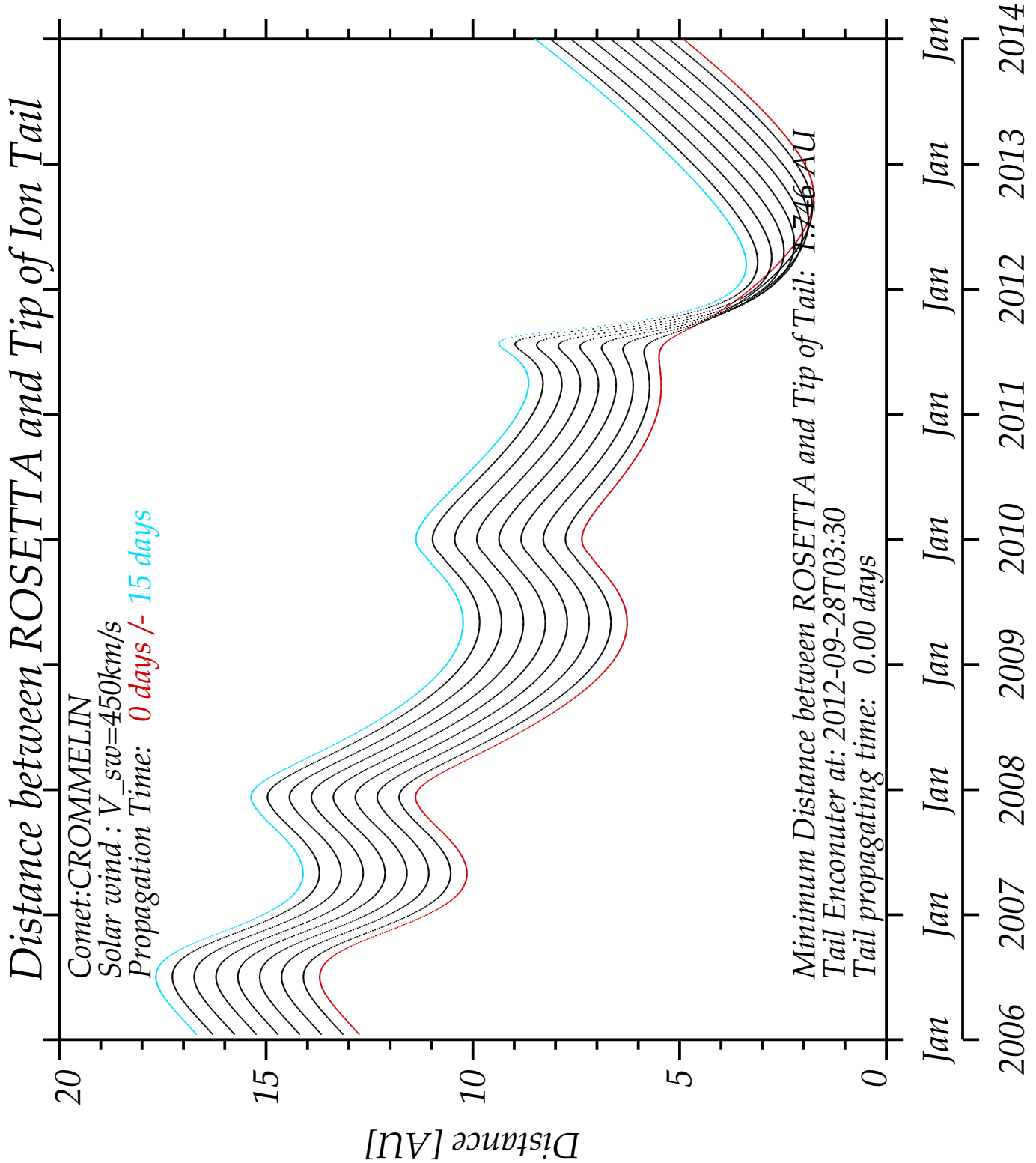


Figure 53: Minimum Distances: ROSETTA - CROMMELIN

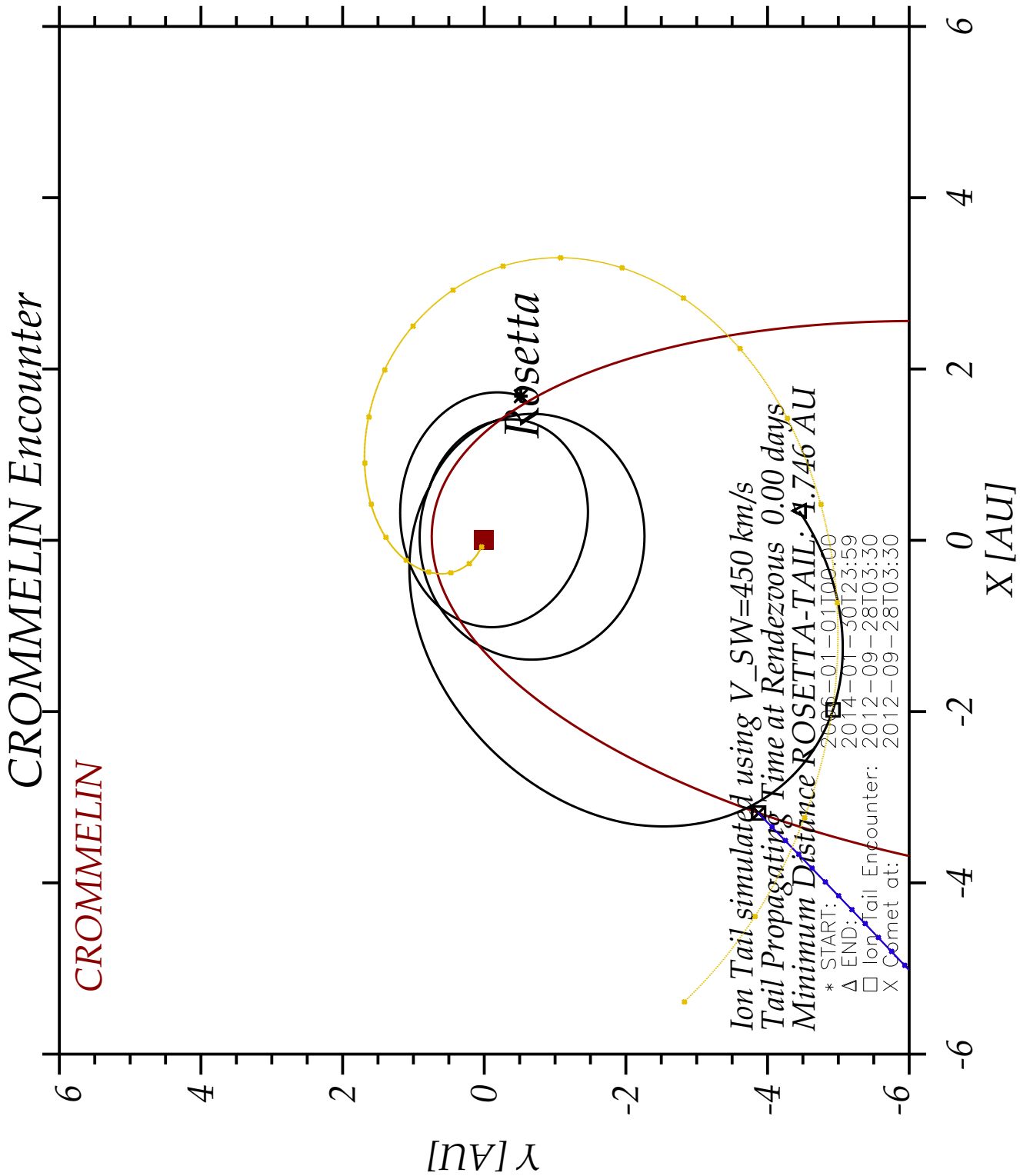


Figure 54: Overview: ROSETTA - CROMMELIN

<p style="text-align: center;">R O S E T T A</p>	<p>Document: RO-IGEP-TR-0020 Issue: 1 Revision: 2</p>
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30 Comet 28P/NEUJMIN 1

<p>Comet: 28P/NEUJMIN 1</p>
<p>No Encounter below 0.2000AU</p>

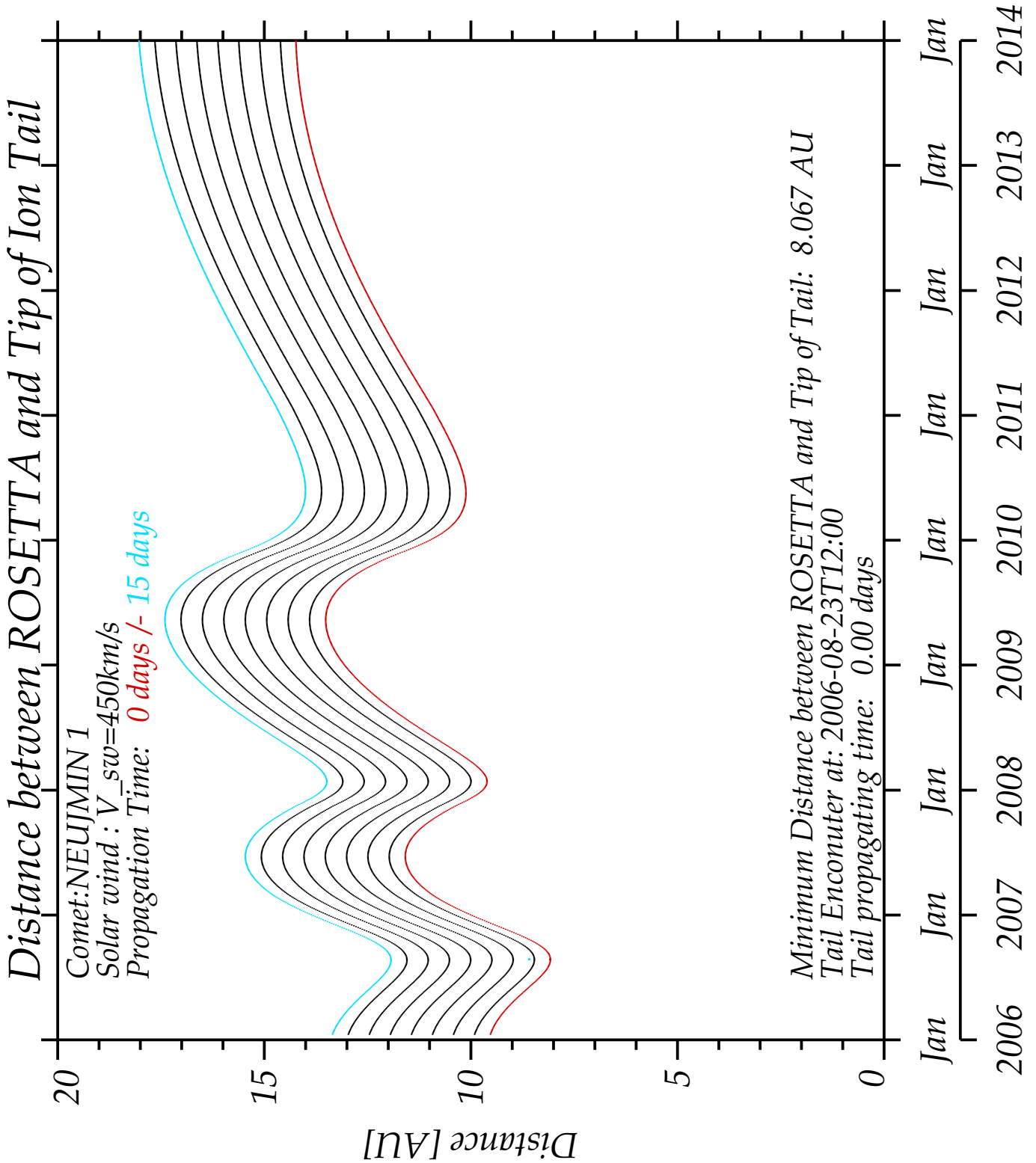


Figure 55: Minimum Distances: ROSETTA - NEUJMIN 1

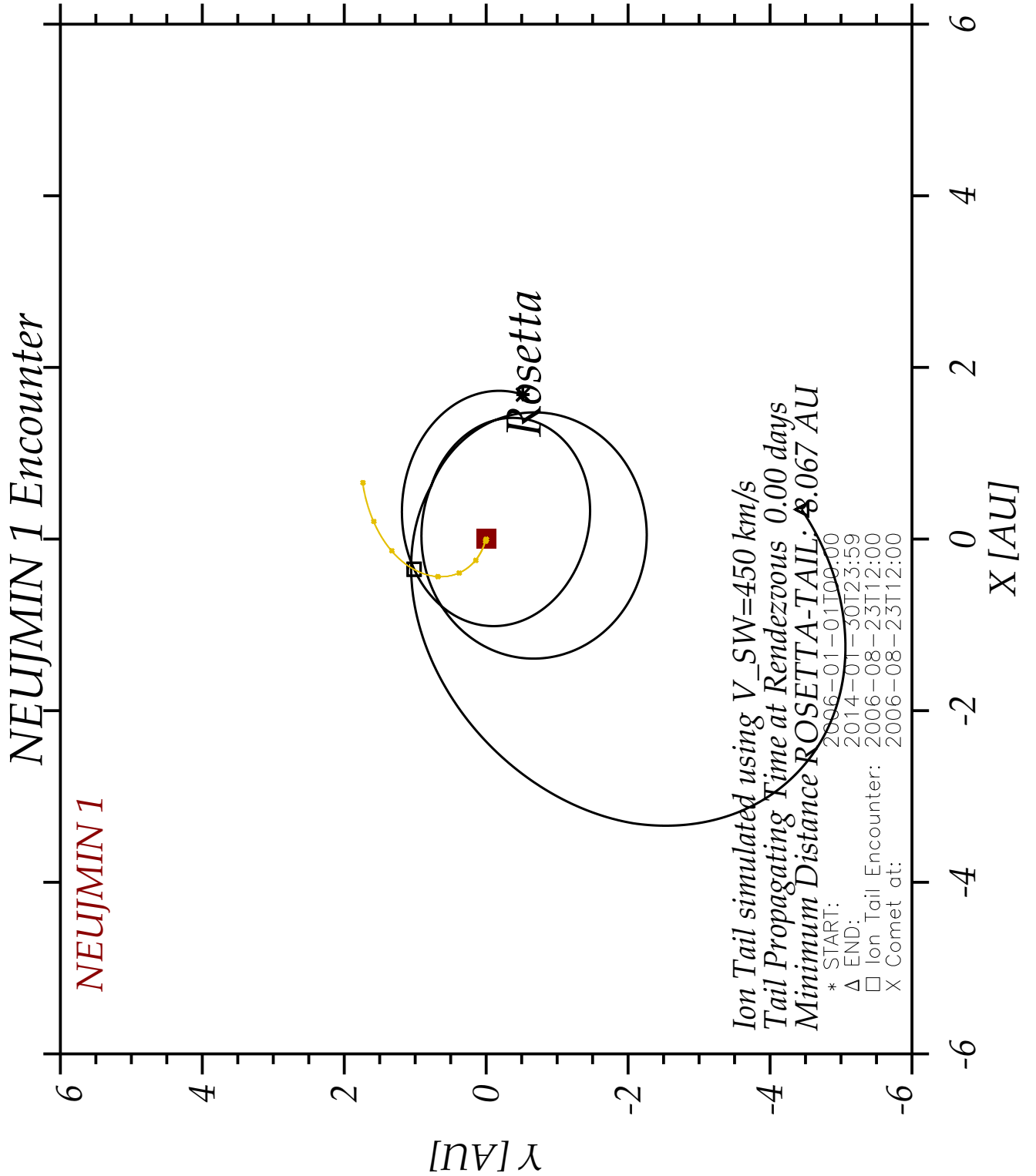


Figure 56: Overview: ROSETTA - NEUJMIN 1

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31 Comet 29P/SCHWASSMANN-WACHMANN 1

Comet: 29P/SCHWASSMANN-WACHMANN 1
No Encounter below 0.2000AU

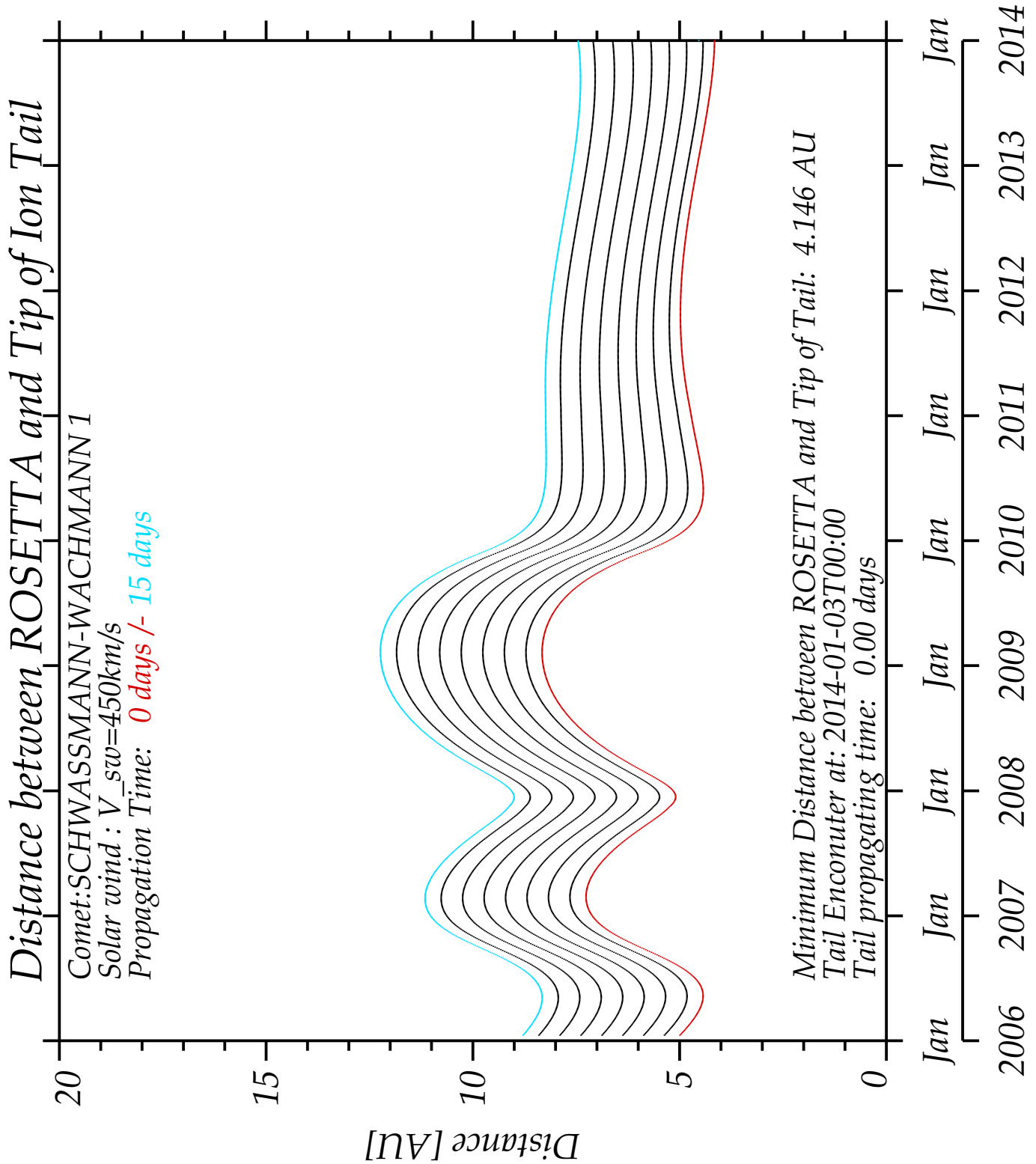


Figure 57: Minimum Distances: ROSETTA - SCHWASSMANN-WACHMANN 1

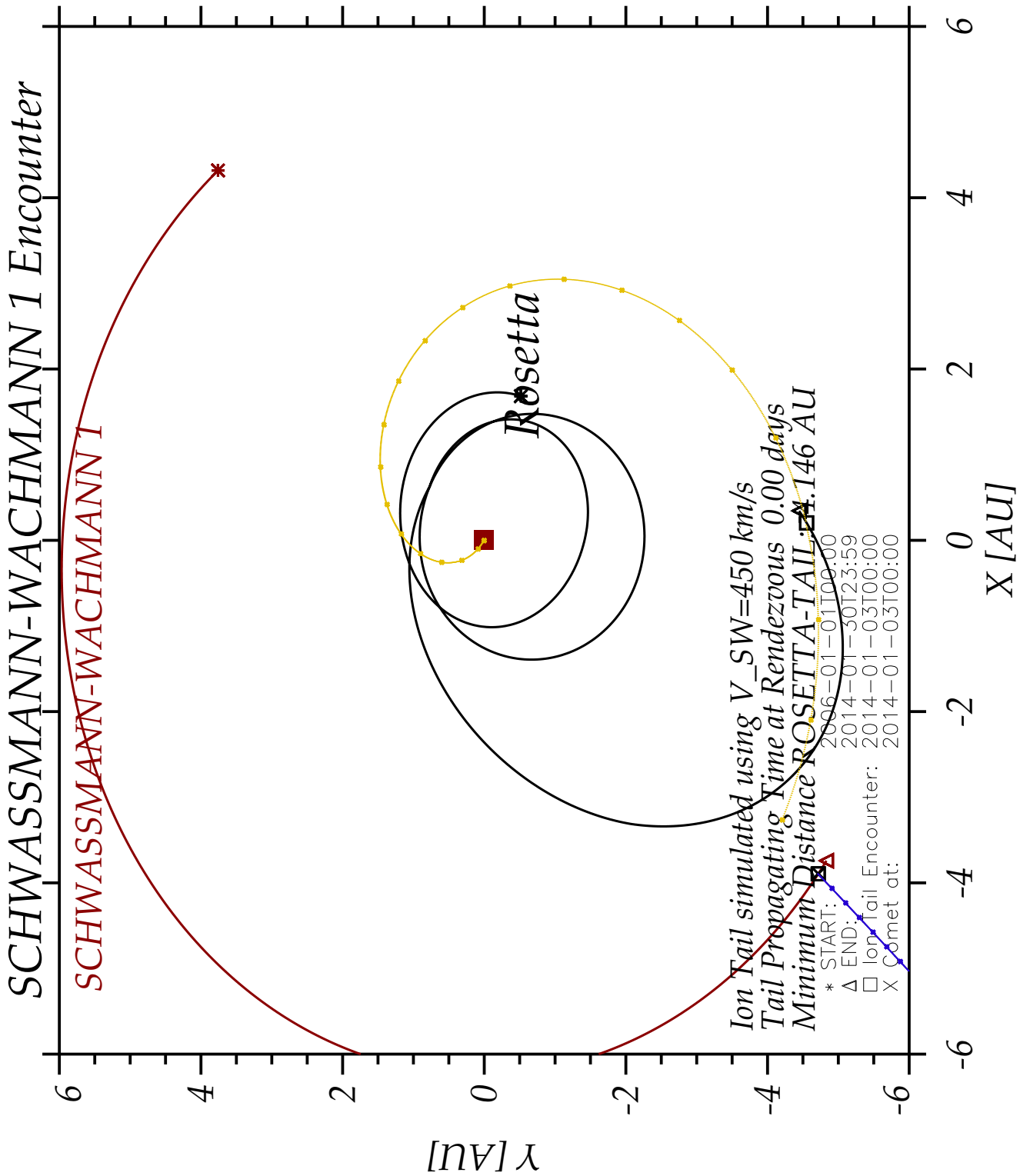


Figure 58: Overview: ROSETTA - SCHWASSMANN-WACHMANN 1

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32 Comet 30P/REINMUTH 1

Comet: 30P/REINMUTH 1
No Encounter below 0.2000AU

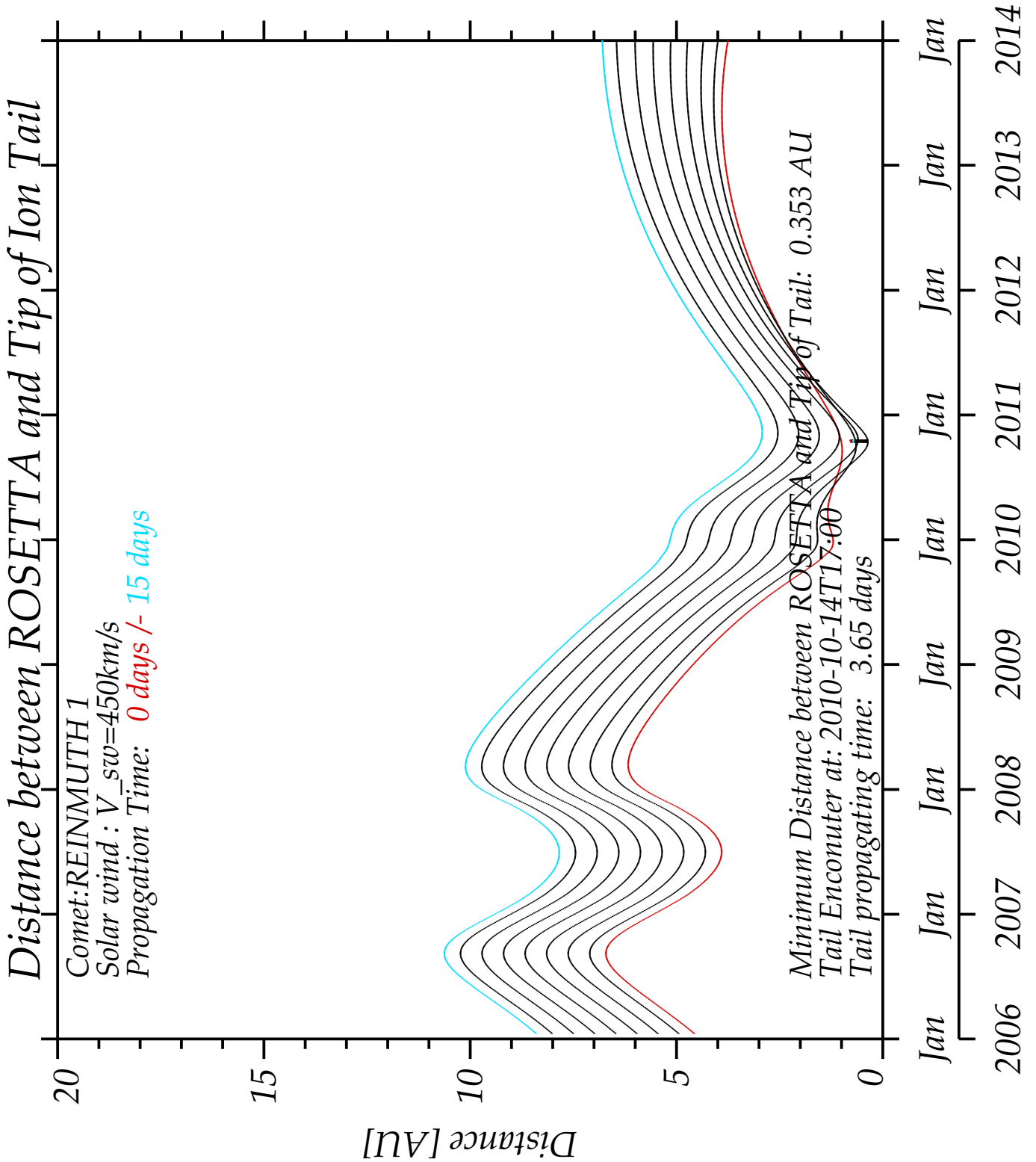


Figure 59: Minimum Distances: ROSETTA - REINMUTH 1

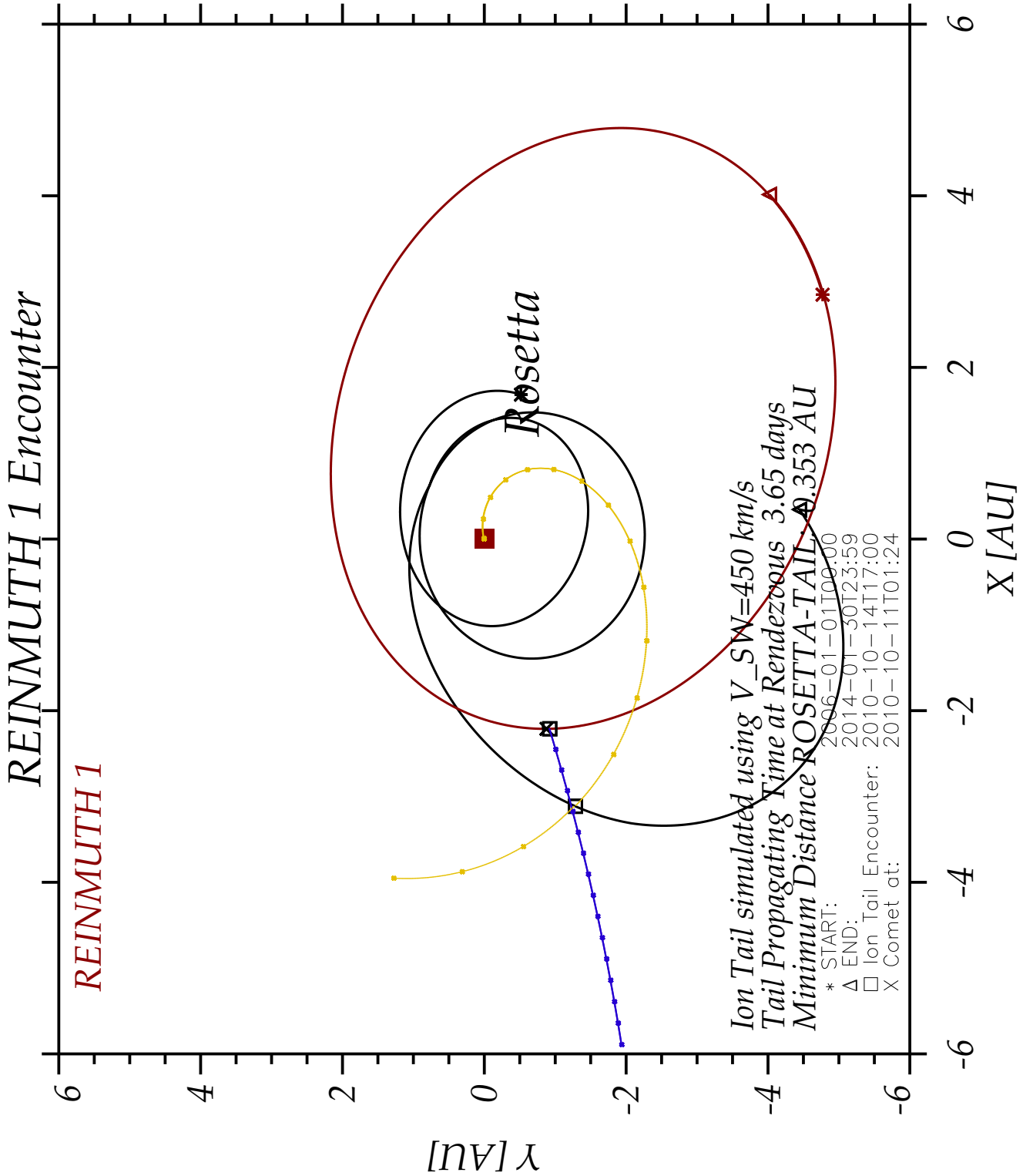


Figure 60: Overview: ROSETTA - REINMUTH 1

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33 Comet 31P/SCHWASSMANN-WACHMANN 2

Comet: 31P/SCHWASSMANN-WACHMANN 2
No Encounter below 0.2000AU

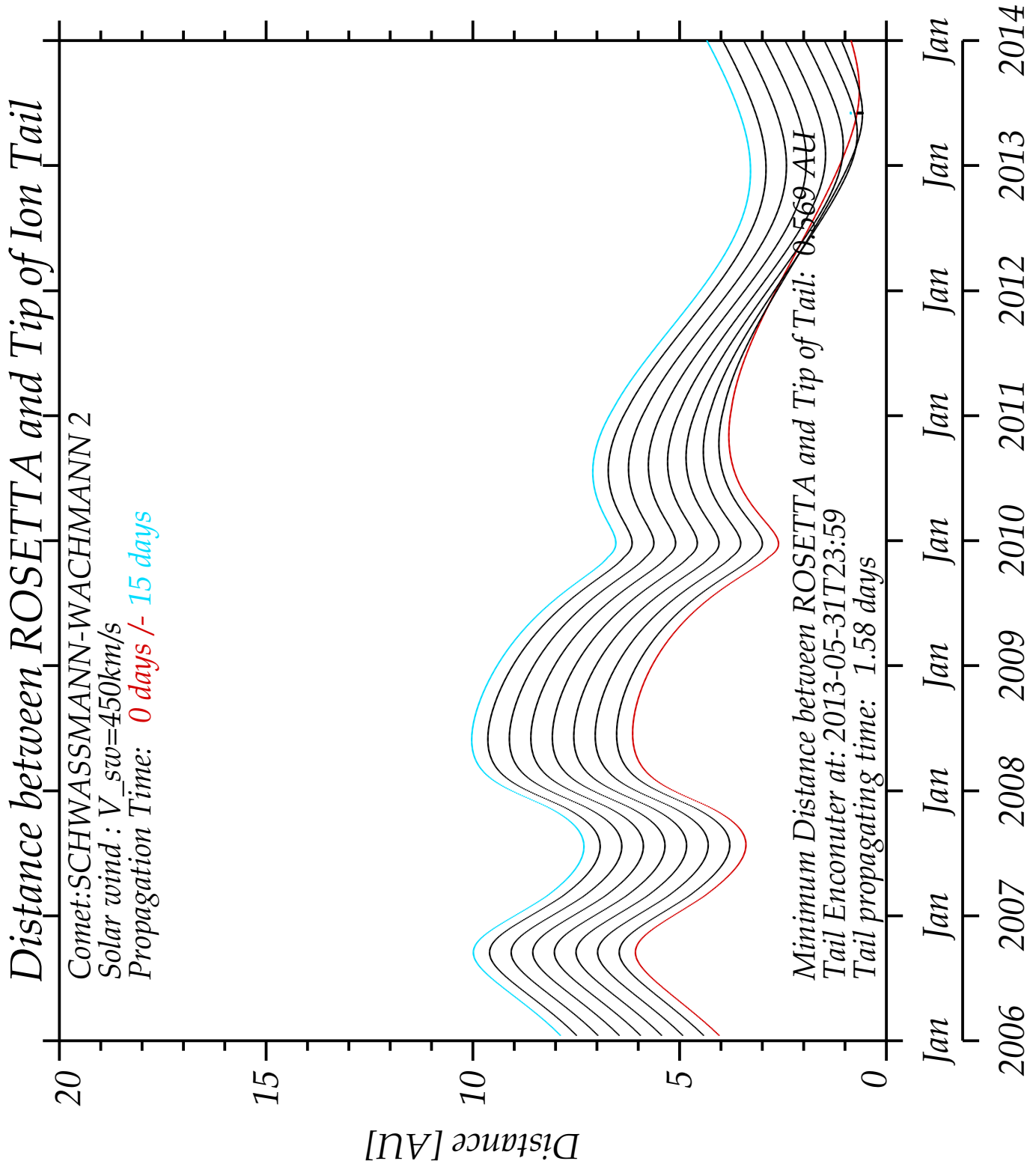


Figure 61: Minimum Distances: ROSETTA - SCHWASSMANN-WACHMANN 2

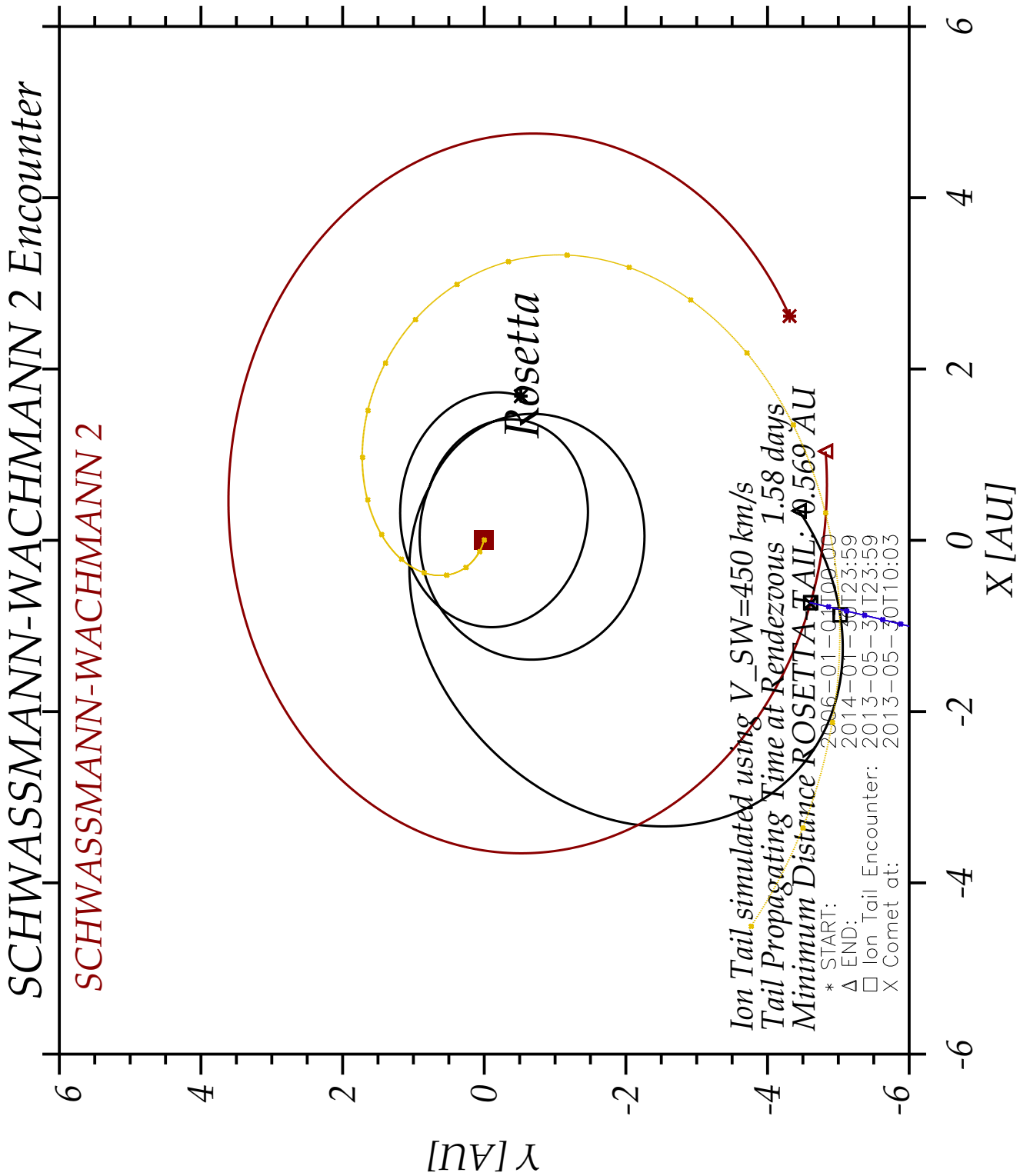


Figure 62: Overview: ROSETTA - SCHWASSMANN-WACHMANN 2

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34 Comet 32P/COMAS SOLA

Comet: 32P/COMAS SOLA
No Encounter below 0.2000AU

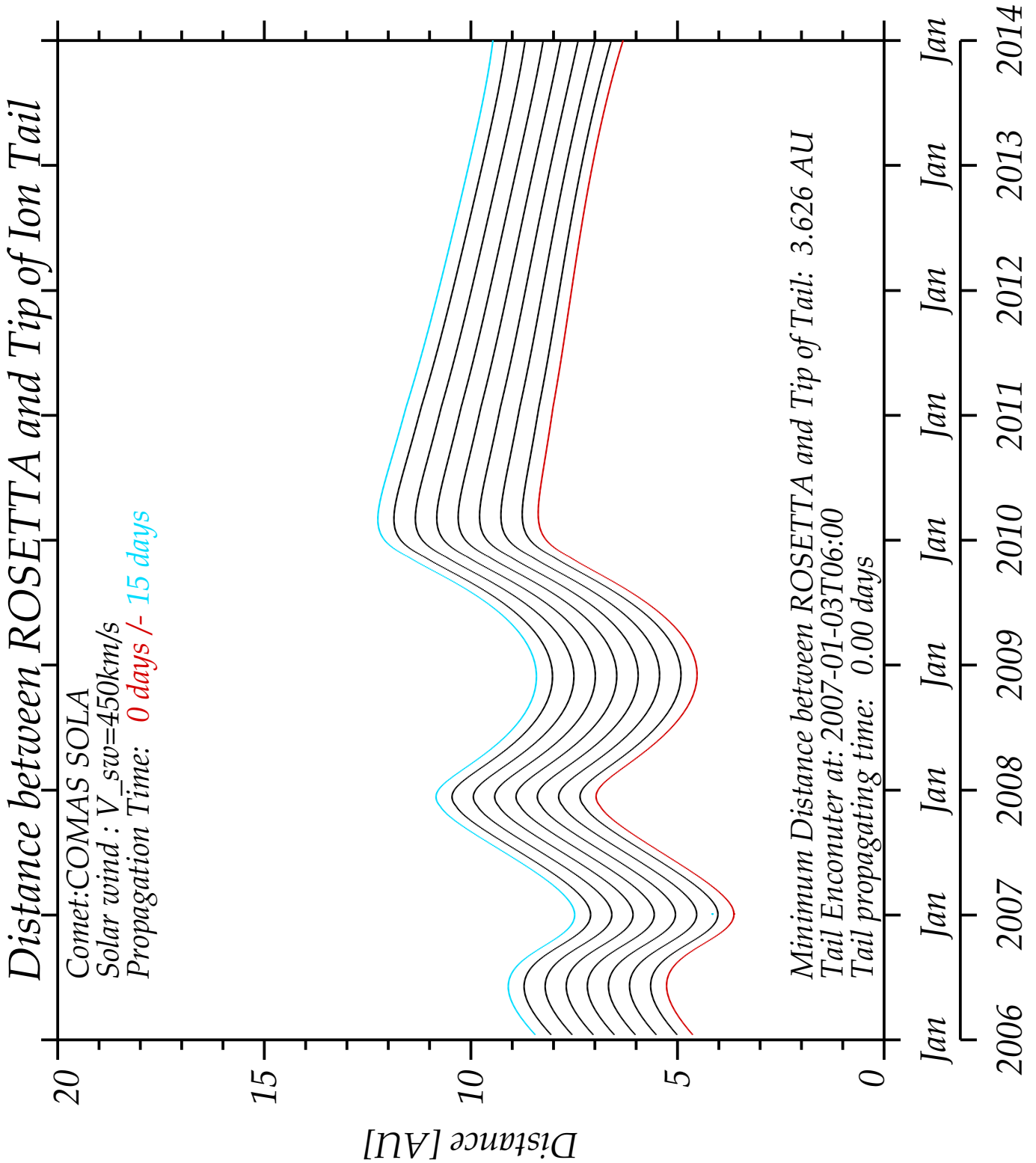


Figure 63: Minimum Distances: ROSETTA - COMAS SOLA

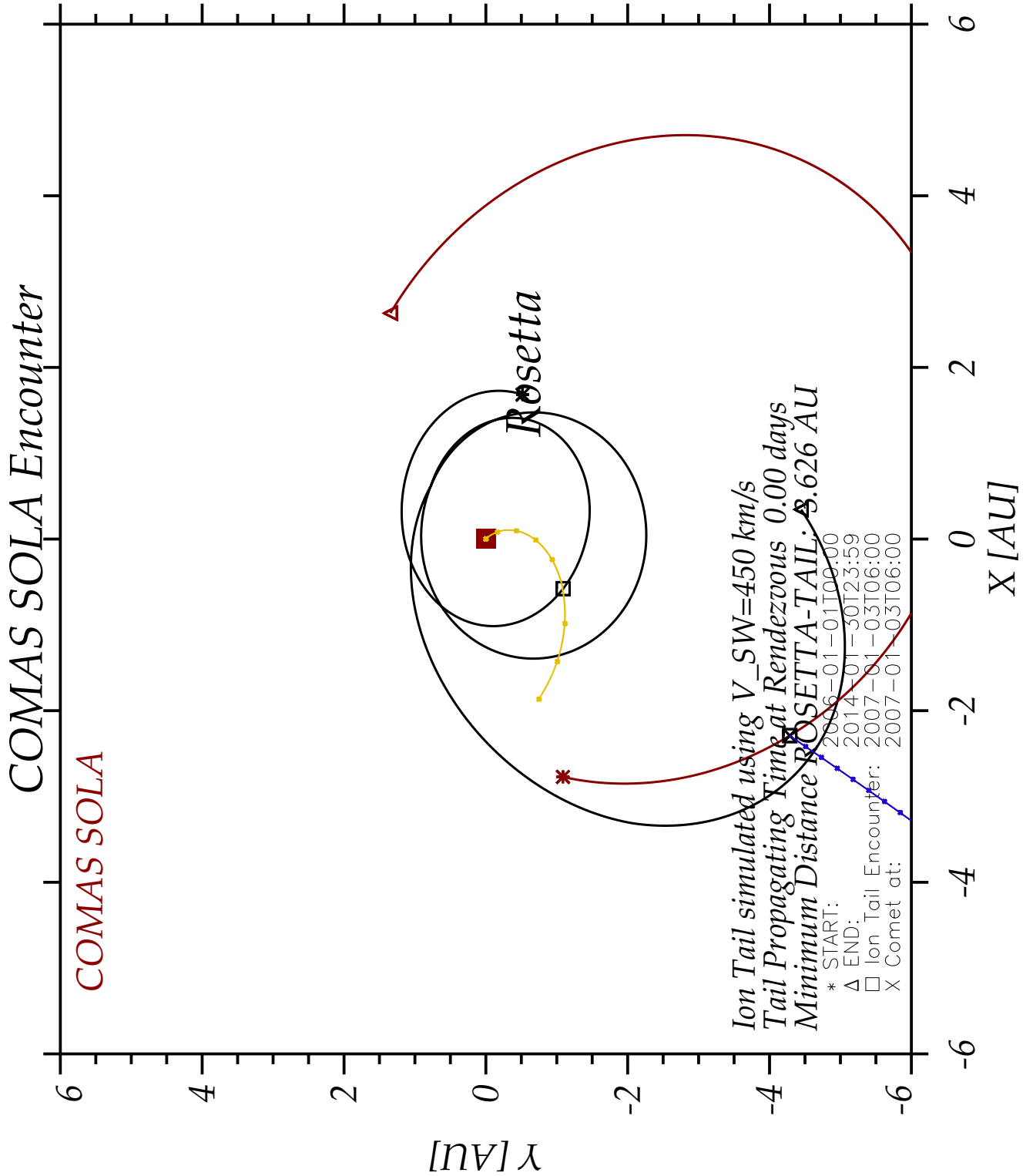


Figure 64: Overview: ROSETTA - COMAS SOLA

<p style="text-align: center;">R O S E T T A</p>	<p>Document: RO-IGEP-TR-0020 Issue: 1 Revision: 2 Date: 2006-10-25 Page: 98</p>
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35 Comet 33P/DANIEL

<p>Comet: 33P/DANIEL</p>
<p>No Encounter below 0.2000AU</p>

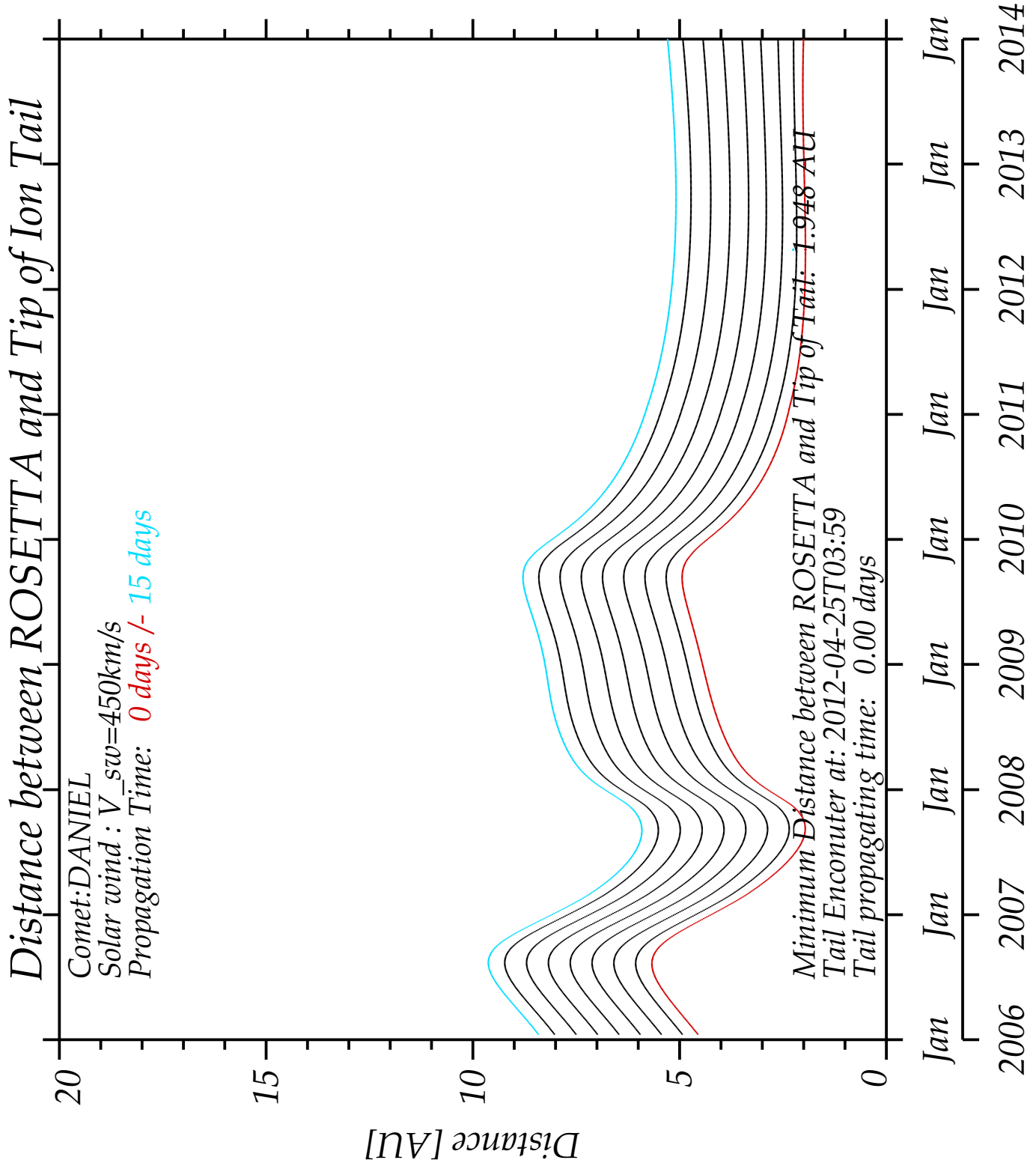


Figure 65: Minimum Distances: ROSETTA - DANIEL

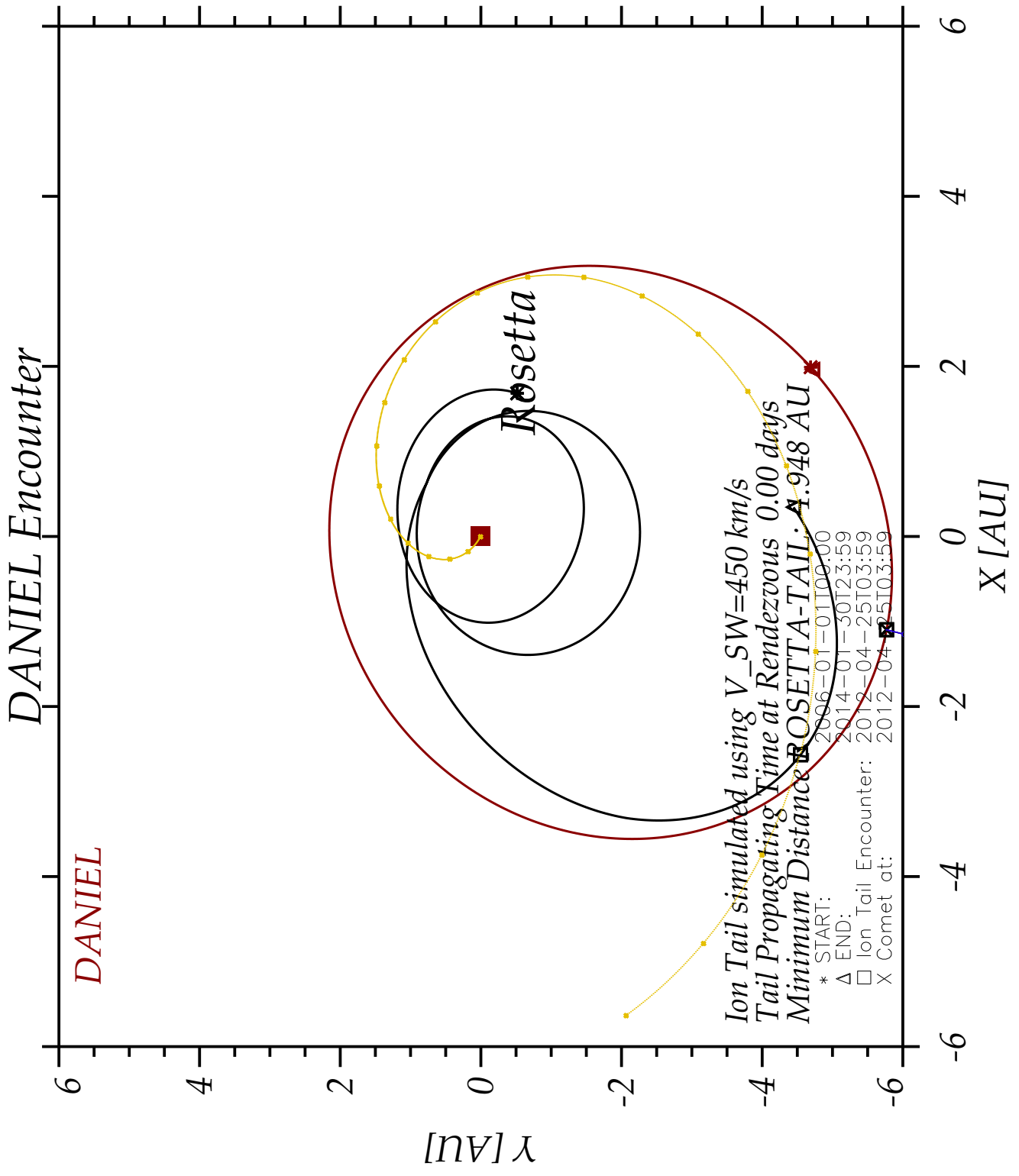


Figure 66: Overview: ROSETTA - DANIEL

<p style="text-align: center;">R O S E T T A</p>	<p>Document: RO-IGEP-TR-0020 Issue: 1 Revision: 2</p>
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36 Comet 34D/GALE

<p>Comet: 34D/GALE</p>
<p>No Encounter below 0.2000AU</p>

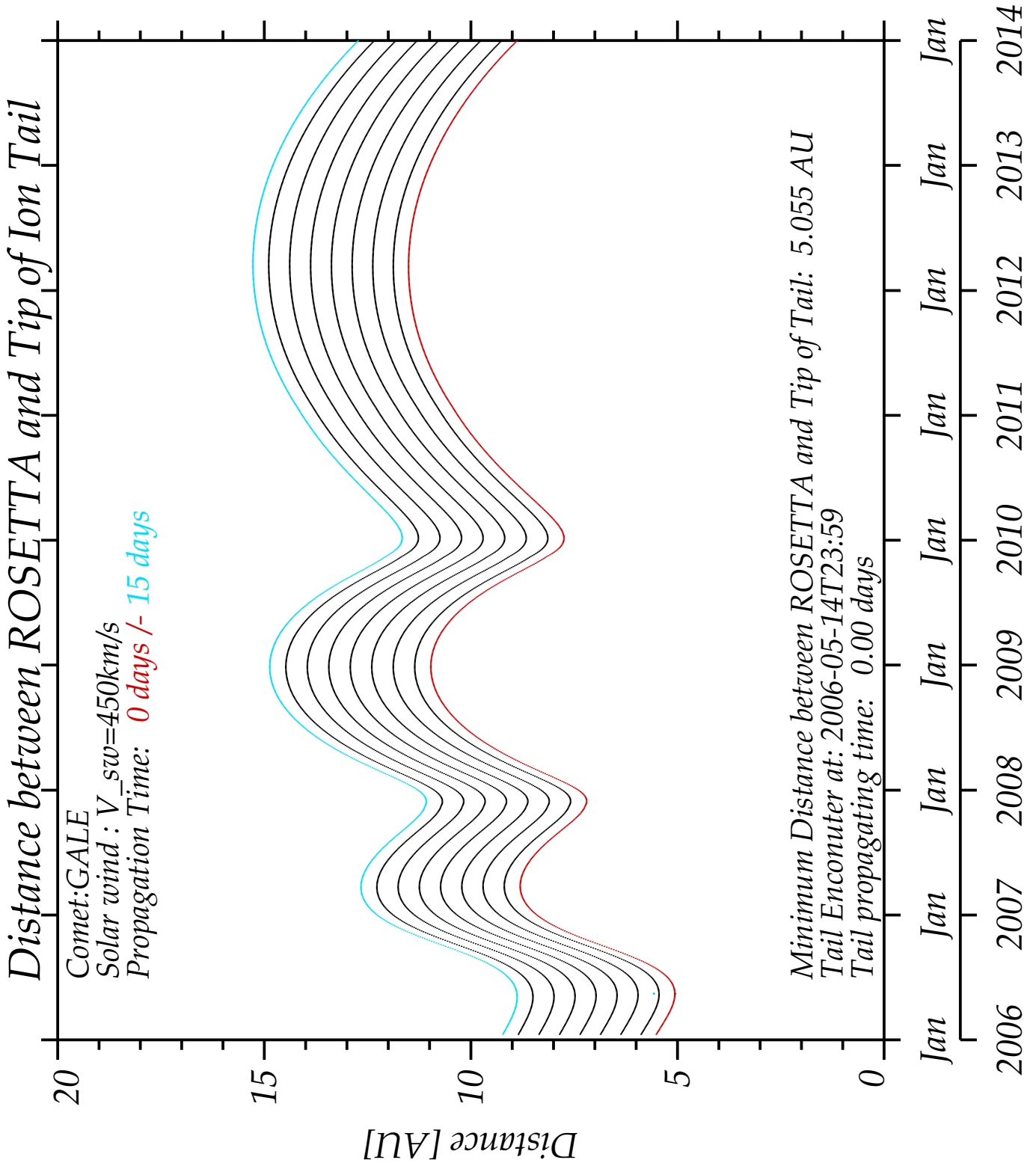


Figure 67: Minimum Distances: ROSETTA - GALE

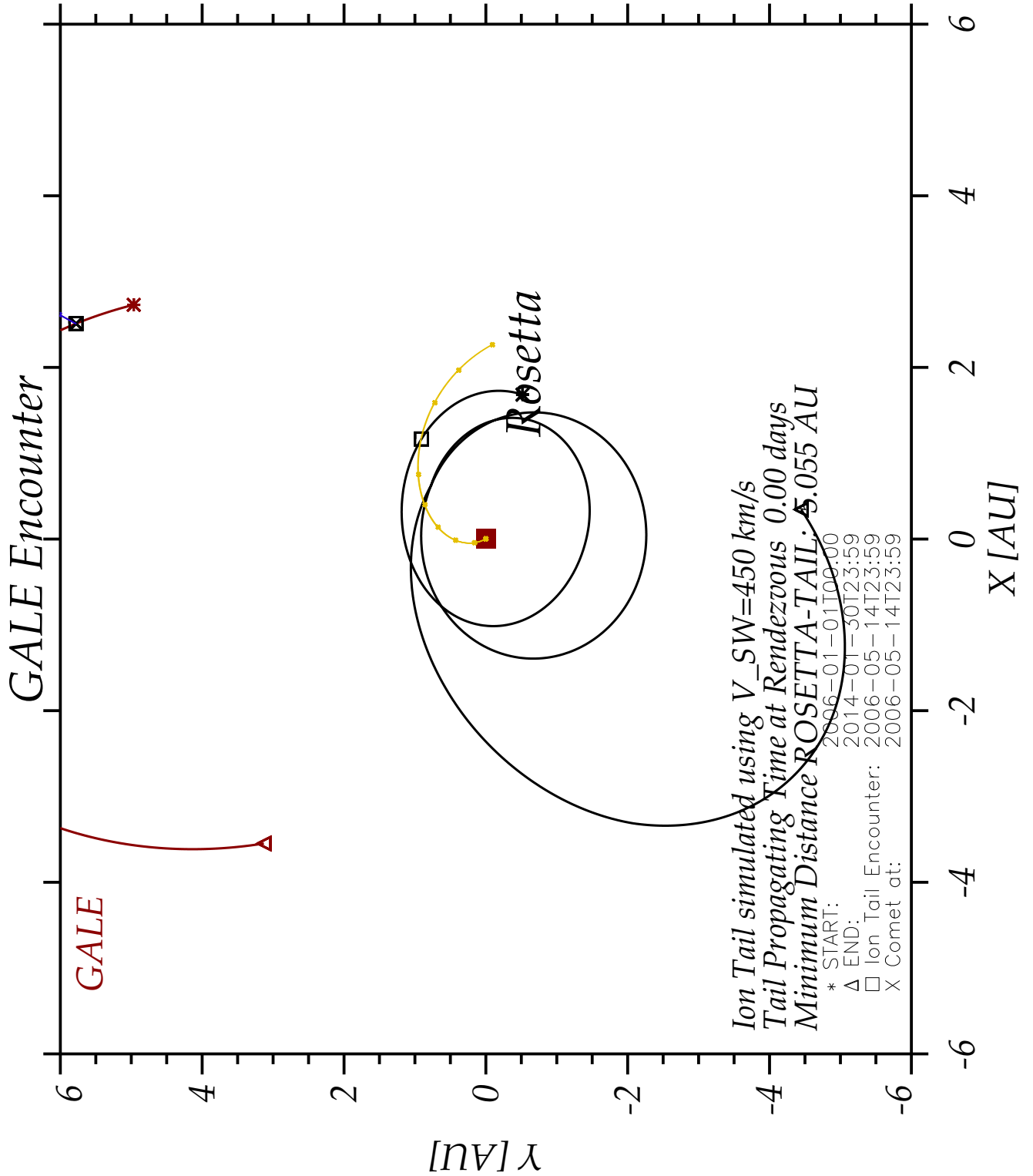


Figure 68: Overview: ROSETTA - GALE

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37 Comet 35P/HERSCHEL-RIGOLLET

Comet: 35P/HERSCHEL-RIGOLLET
No Encounter below 0.2000AU

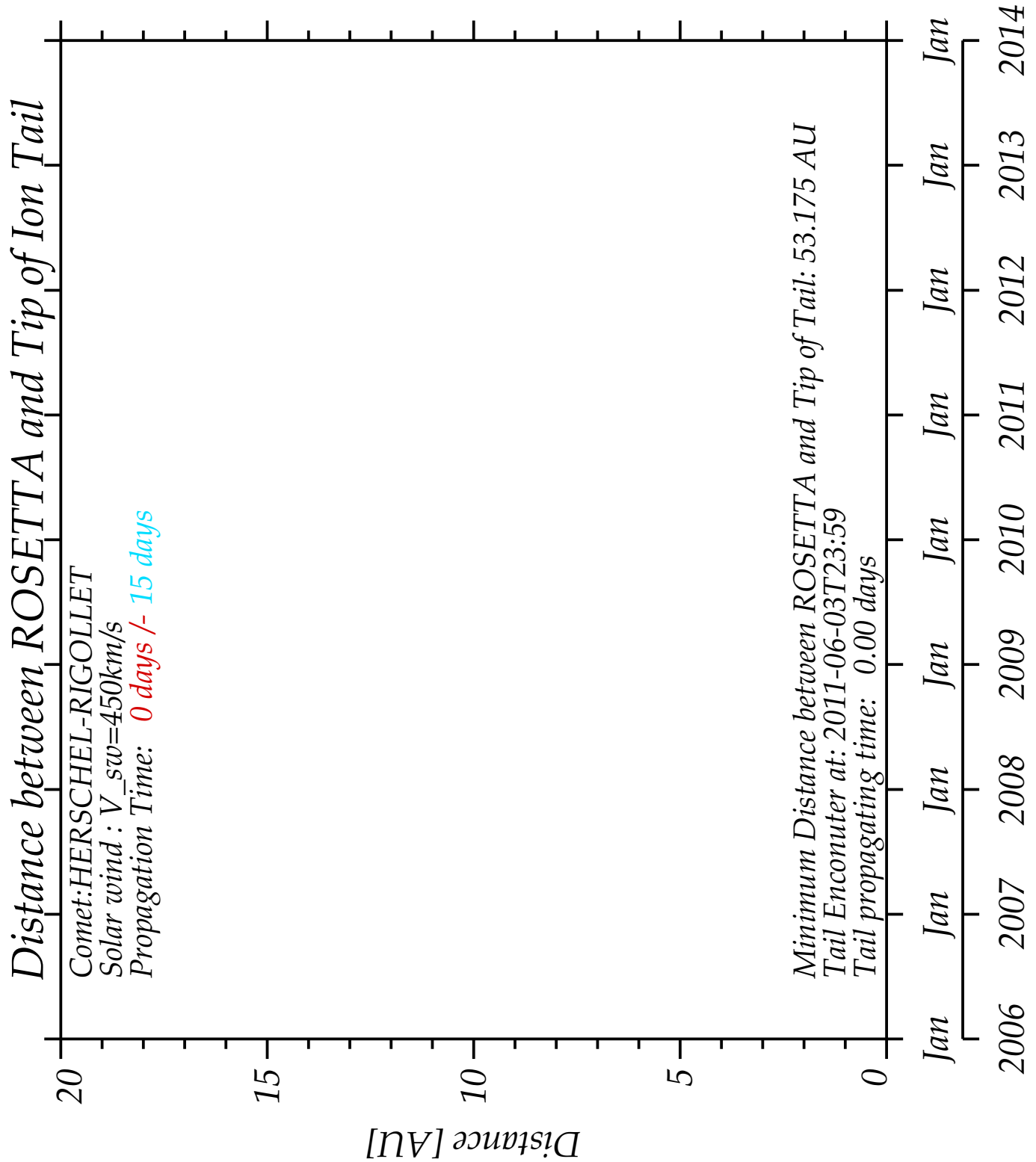


Figure 69: Minimum Distances: ROSETTA - HERSCHEL-RIGOLLET

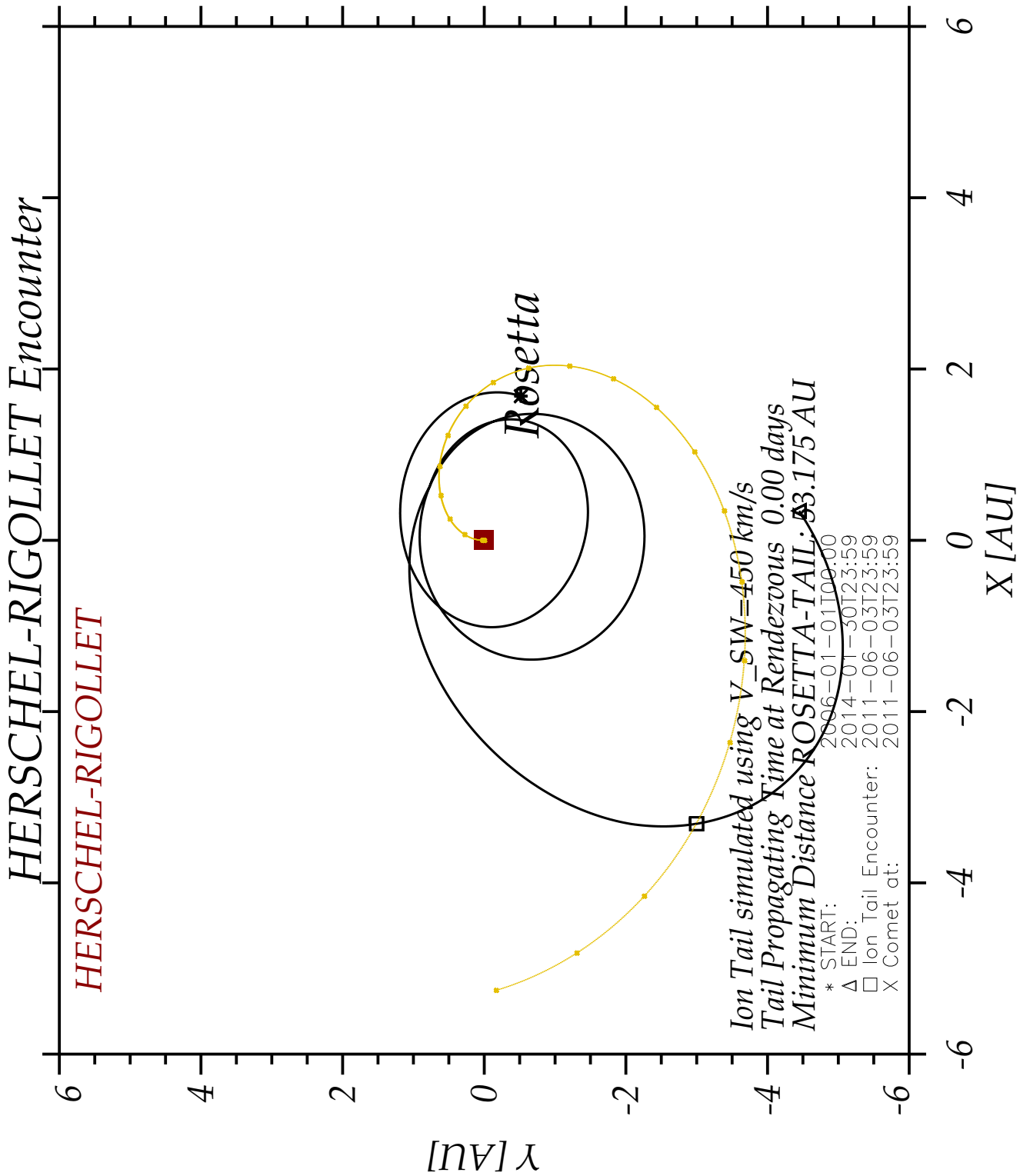


Figure 70: Overview: ROSETTA - HERSCHEL-RIGOLLET

<p style="text-align: center;">R O S E T T A</p>	<p>Document: RO-IGEP-TR-0020 Issue: 1 Revision: 2</p>
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38 Comet 36P/WHIPPLE

<p>Comet: 36P/WHIPPLE</p>
<p>No Encounter below 0.2000AU</p>

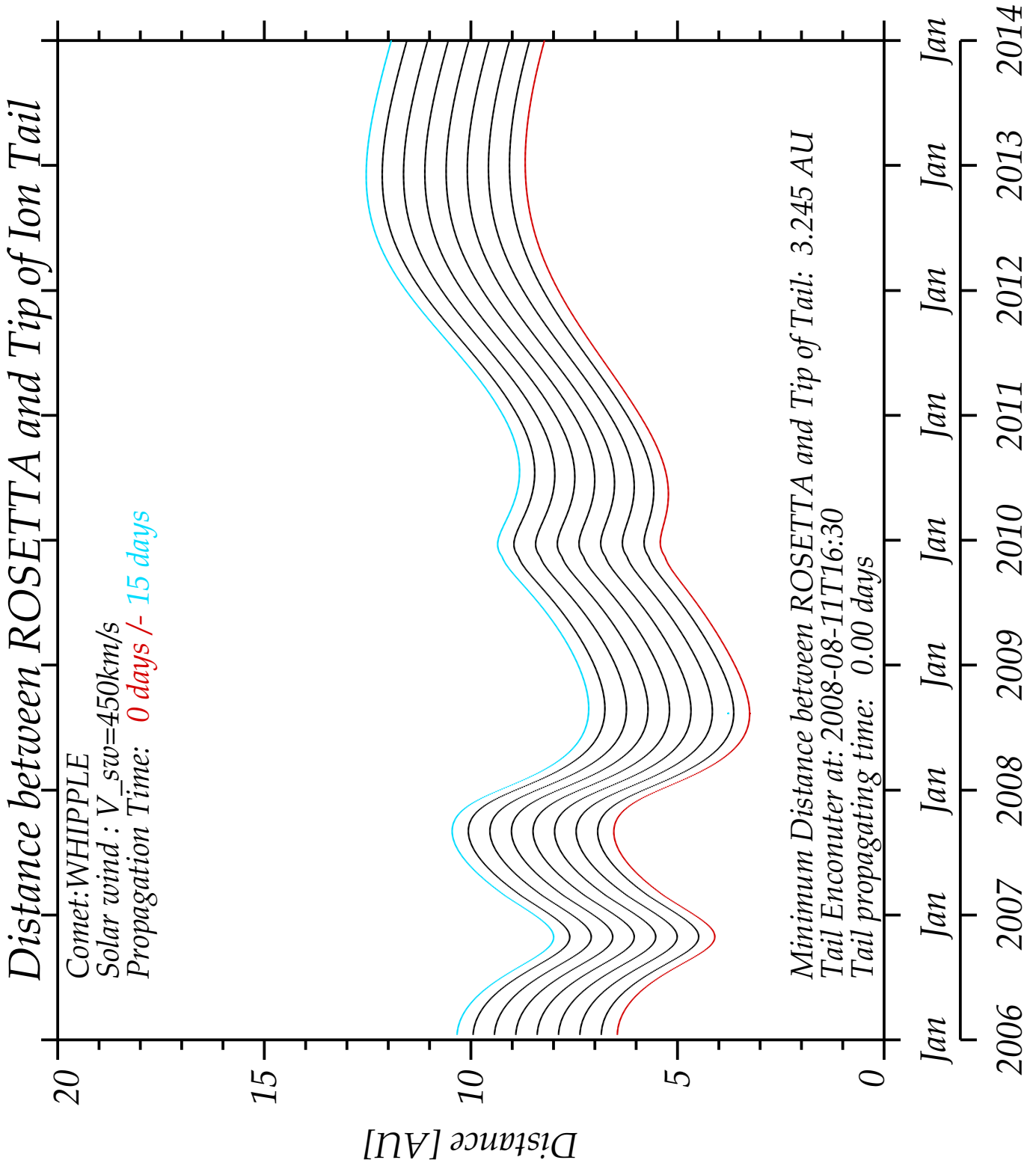


Figure 71: Minimum Distances: ROSETTA - WHIPPLE

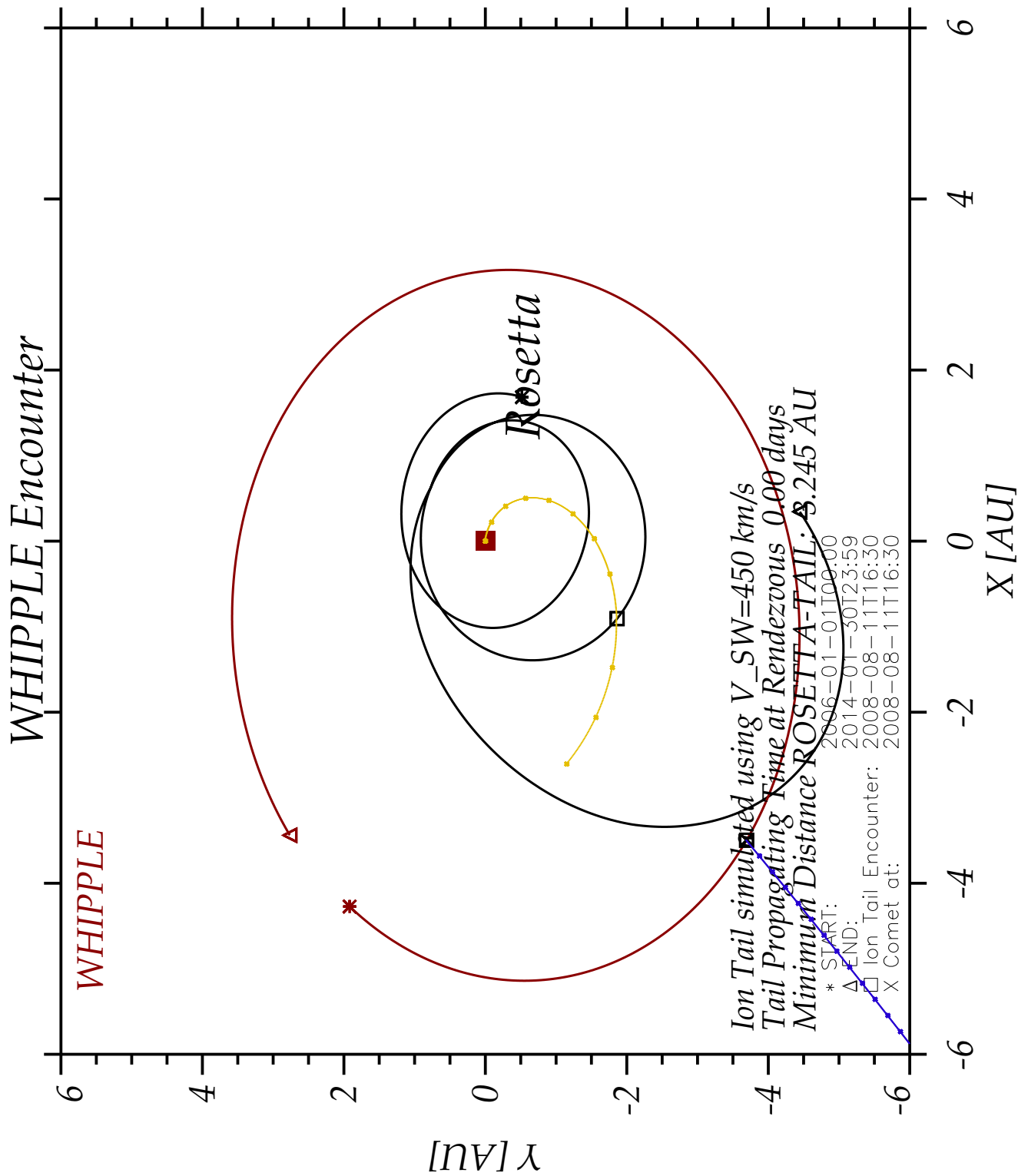


Figure 72: Overview: ROSETTA - WHIPPLE

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39 Comet 37P/FORBES

Comet: 37P/FORBES
No Encounter below 0.2000AU

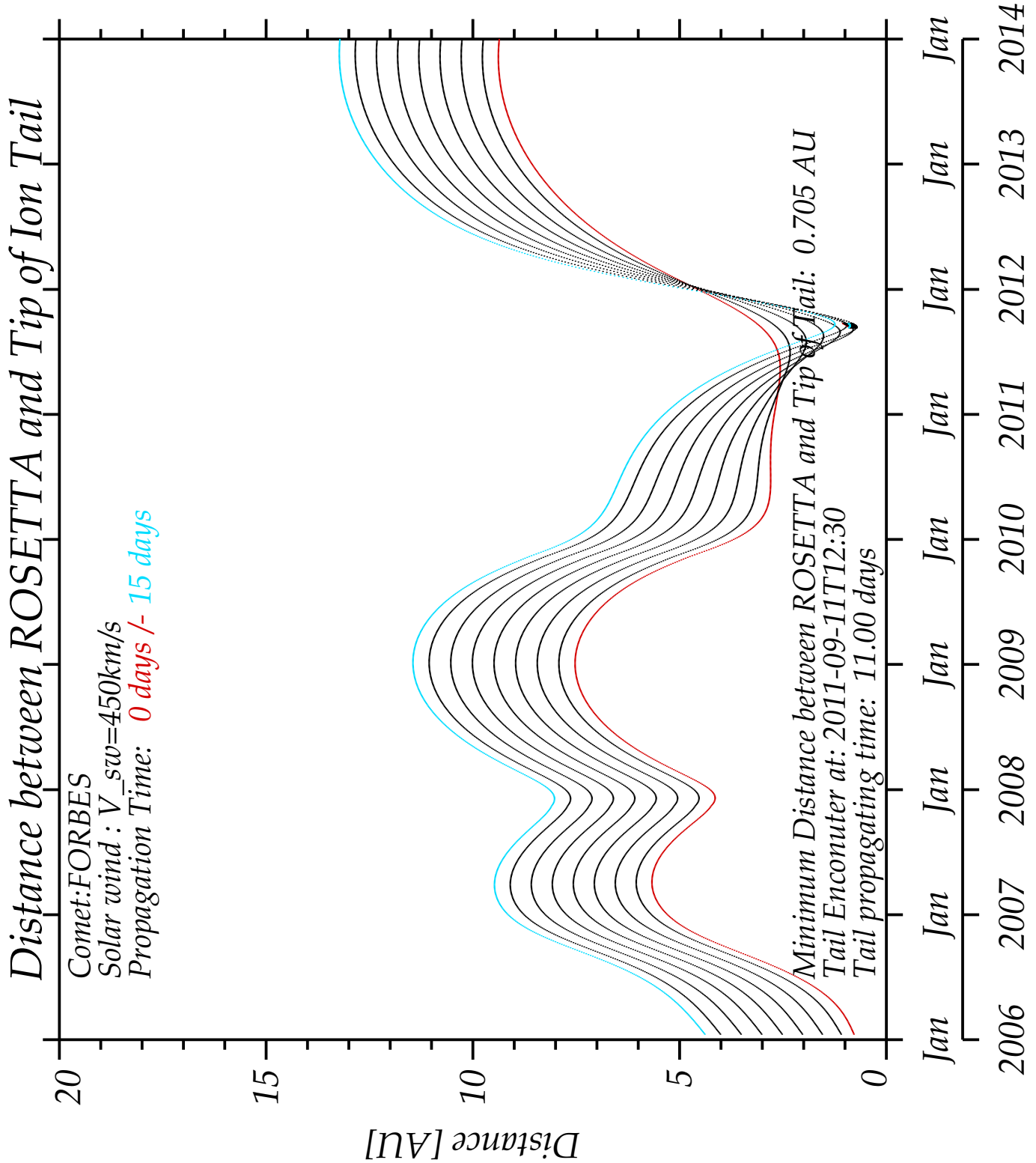


Figure 73: Minimum Distances: ROSETTA - FORBES

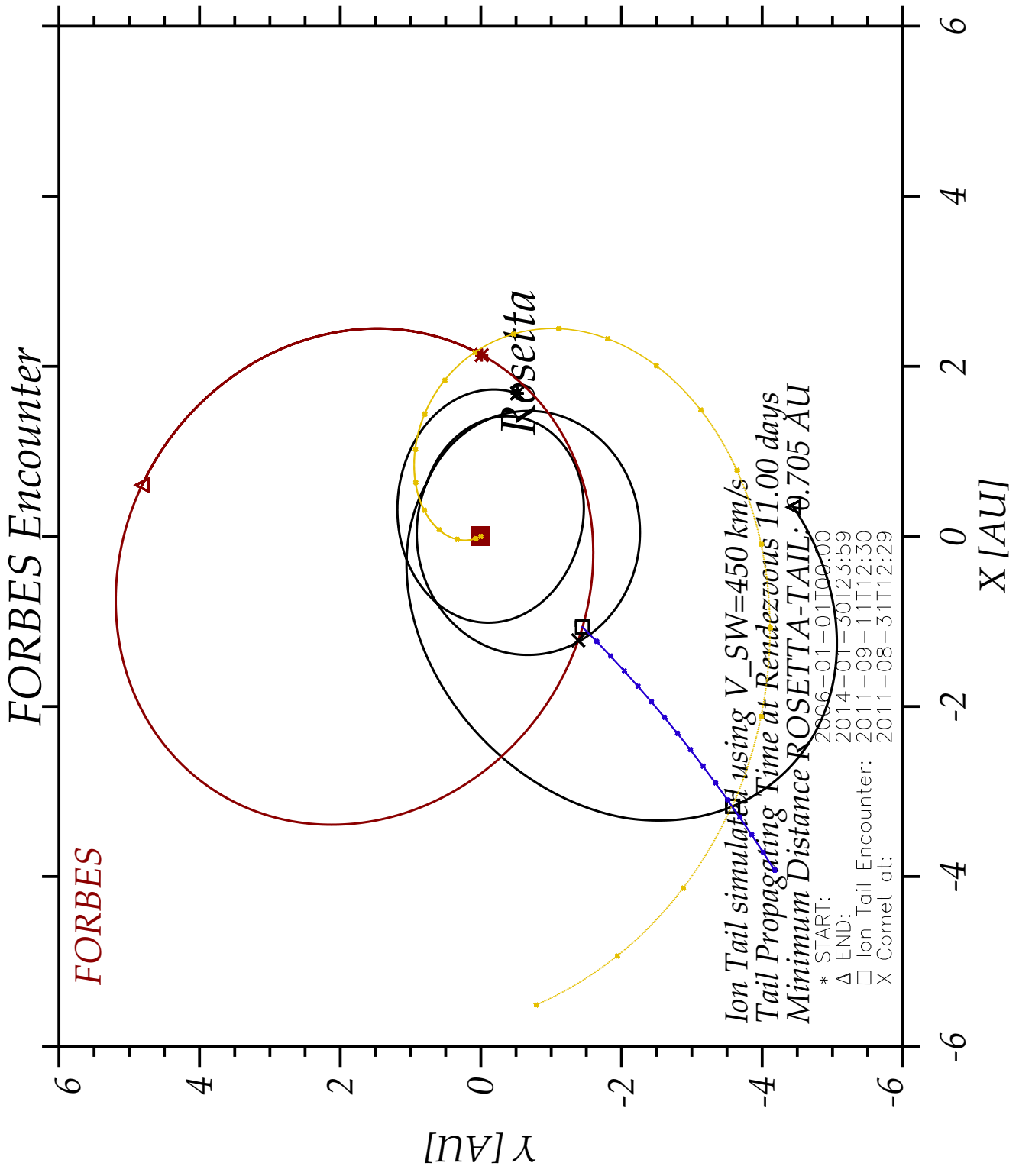


Figure 74: Overview: ROSETTA - FORBES

<p style="text-align: center;">R O S E T T A</p>	<p>Document: RO-IGEP-TR-0020 Issue: 1 Revision: 2</p>
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40 Comet 38P/STEPHAN-OTERMA

<p>Comet: 38P/STEPHAN-OTERMA</p>
<p>No Encounter below 0.2000AU</p>

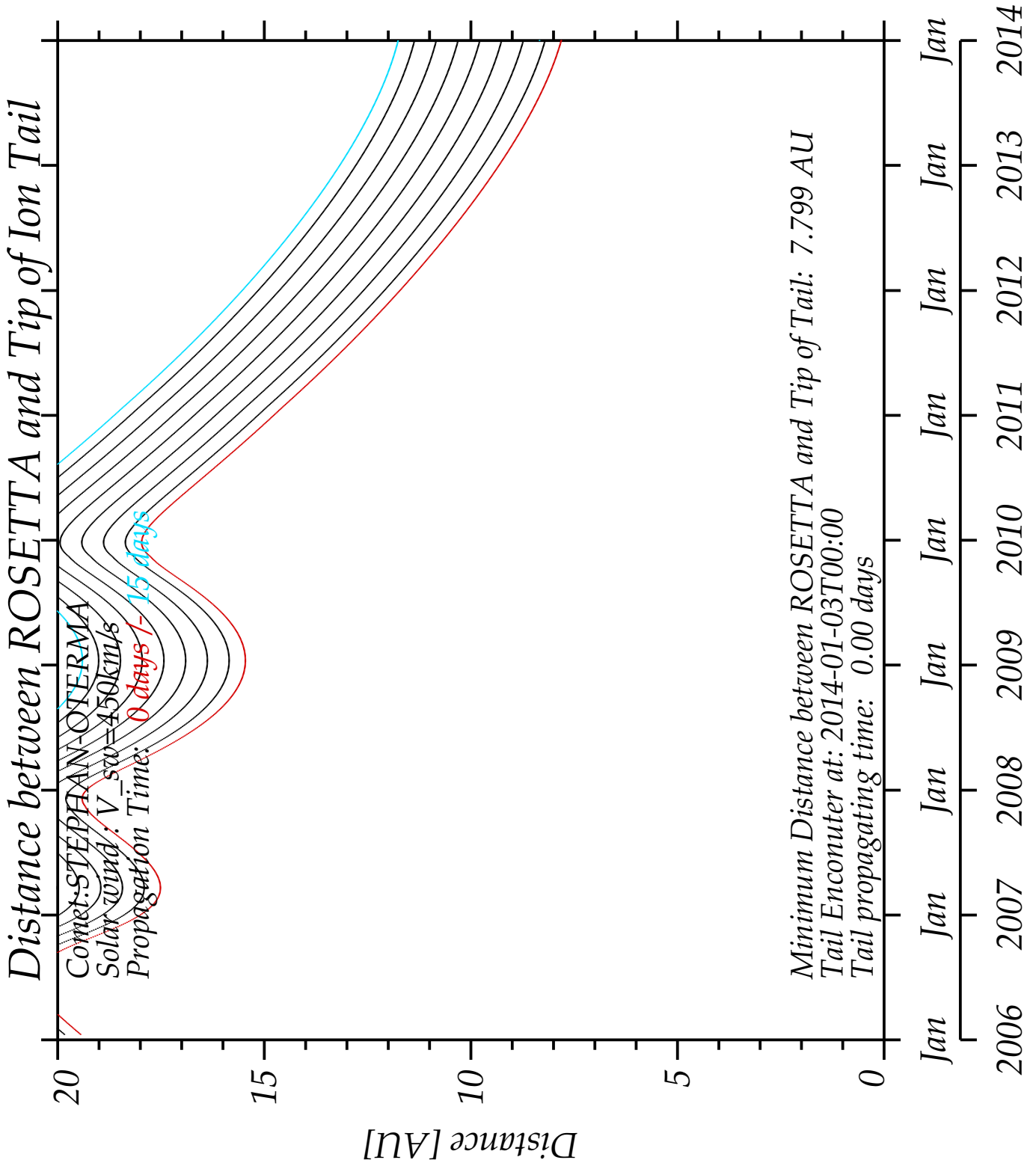


Figure 75: Minimum Distances: ROSETTA - STEPHAN-OTERMA

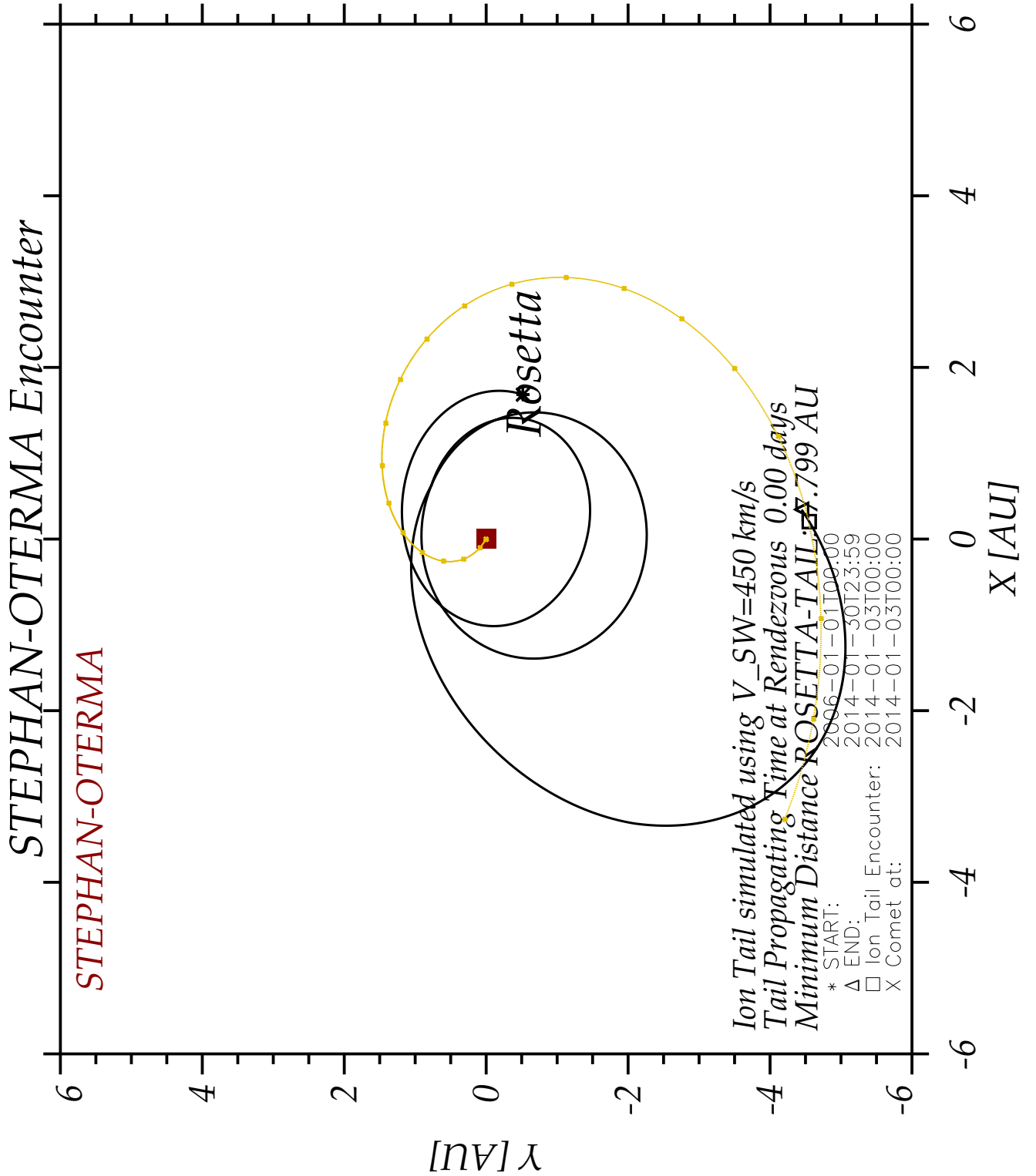


Figure 76: Overview: ROSETTA - STEPHAN-OTERMA

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41 Comet 39P/OTERMA

Comet: 39P/OTERMA
No Encounter below 0.2000AU

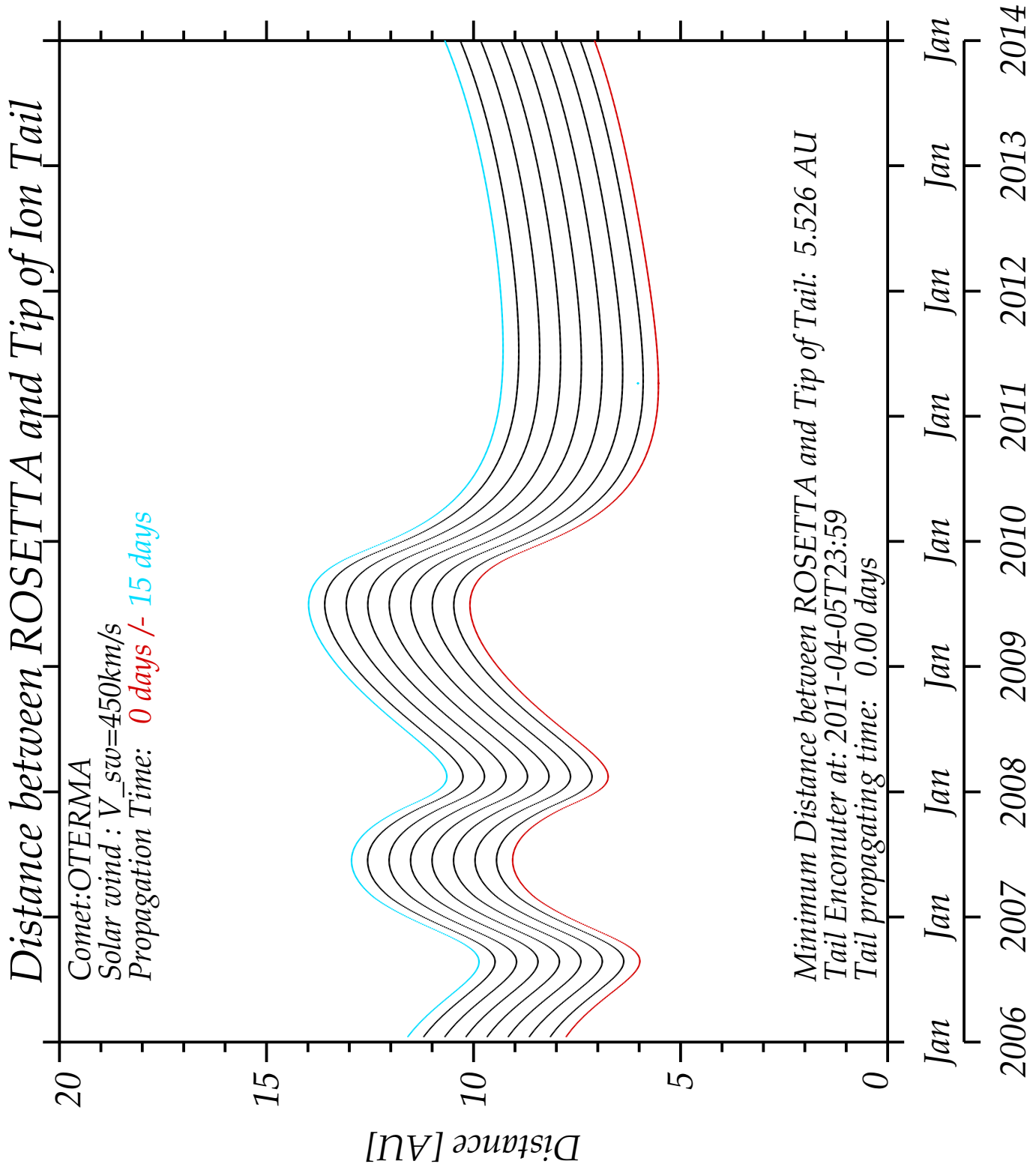


Figure 77: Minimum Distances: ROSETTA - OTERMA

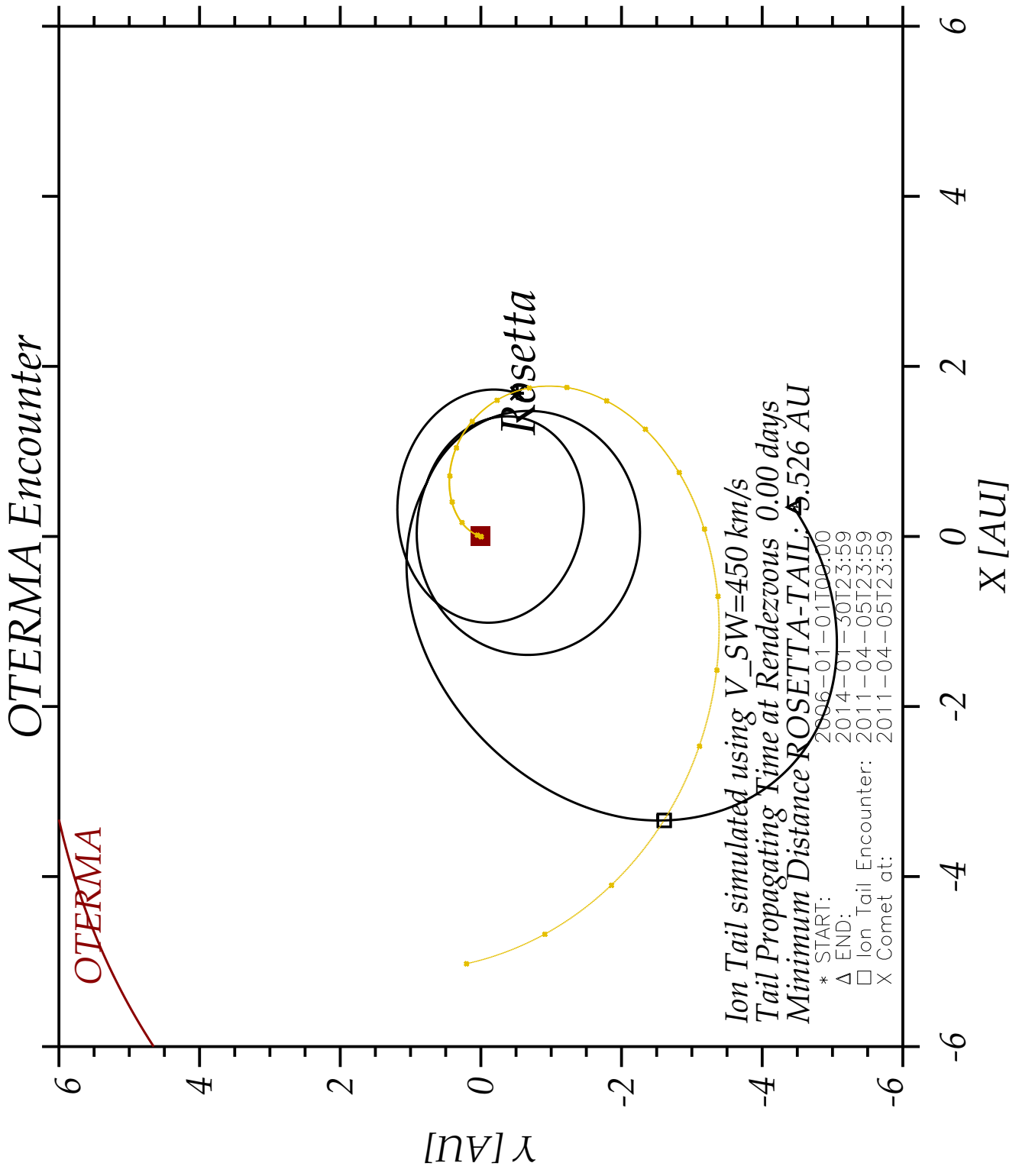


Figure 78: Overview: ROSETTA - OTERMA

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42 Comet 40P/VAISALA 1

Comet: 40P/VAISALA 1
No Encounter below 0.2000AU

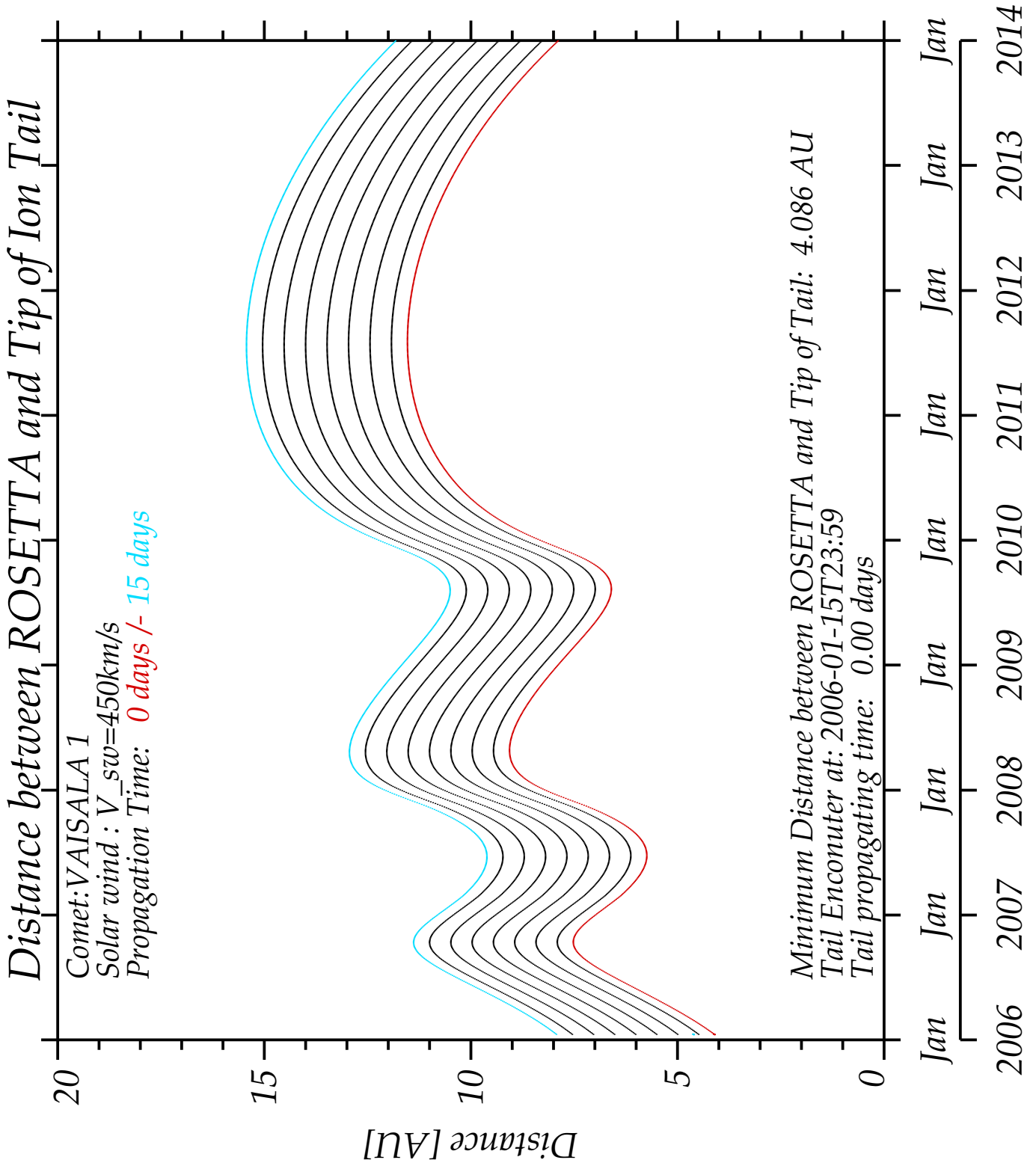


Figure 79: Minimum Distances: ROSETTA - VAISALA 1

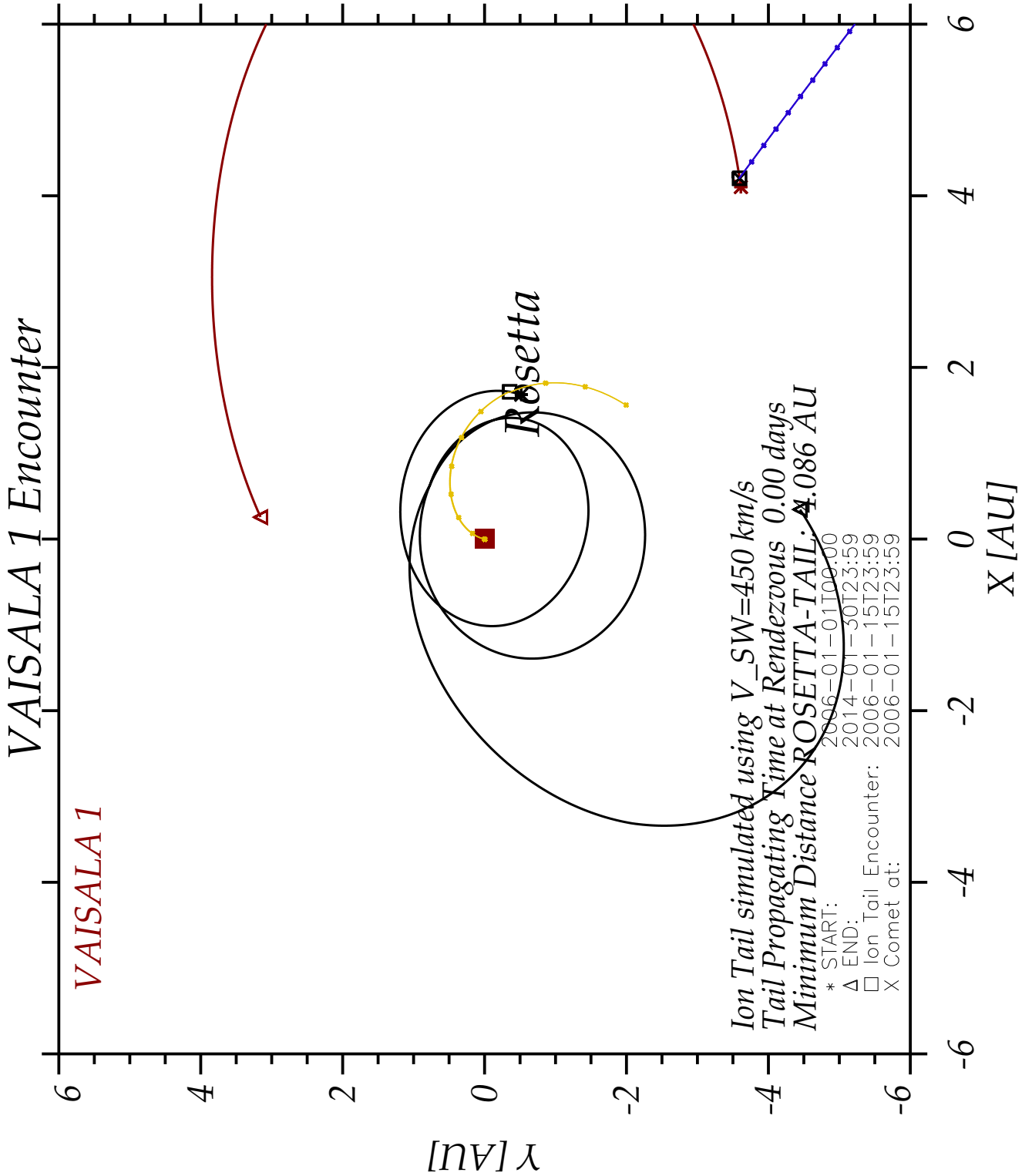


Figure 80: Overview: ROSETTA - VAISALA 1

<p style="text-align: center;">R O S E T T A</p>	<p>Document: RO-IGEP-TR-0020 Issue: 1 Revision: 2 Date: 2006-10-25 Page: 122</p>
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43 Comet 41P/TUTTLE-GIACOBINI-KRESAK

<p>Comet: 41P/TUTTLE-GIACOBINI-KRESAK</p>
<p>No Encounter below 0.2000AU</p>

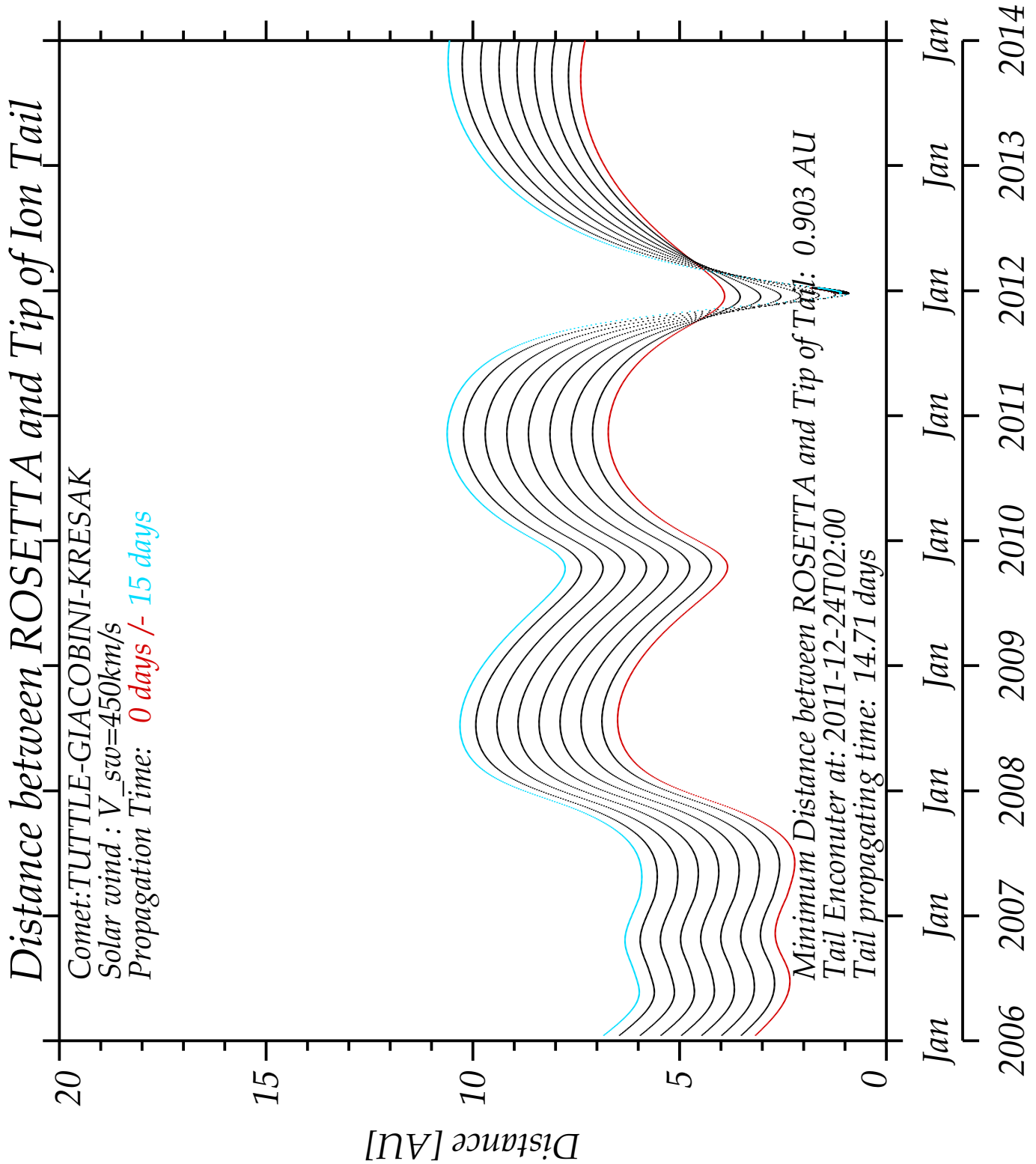


Figure 81: Minimum Distances: ROSETTA - TUTTLE-GIACOBINI-KRESAK

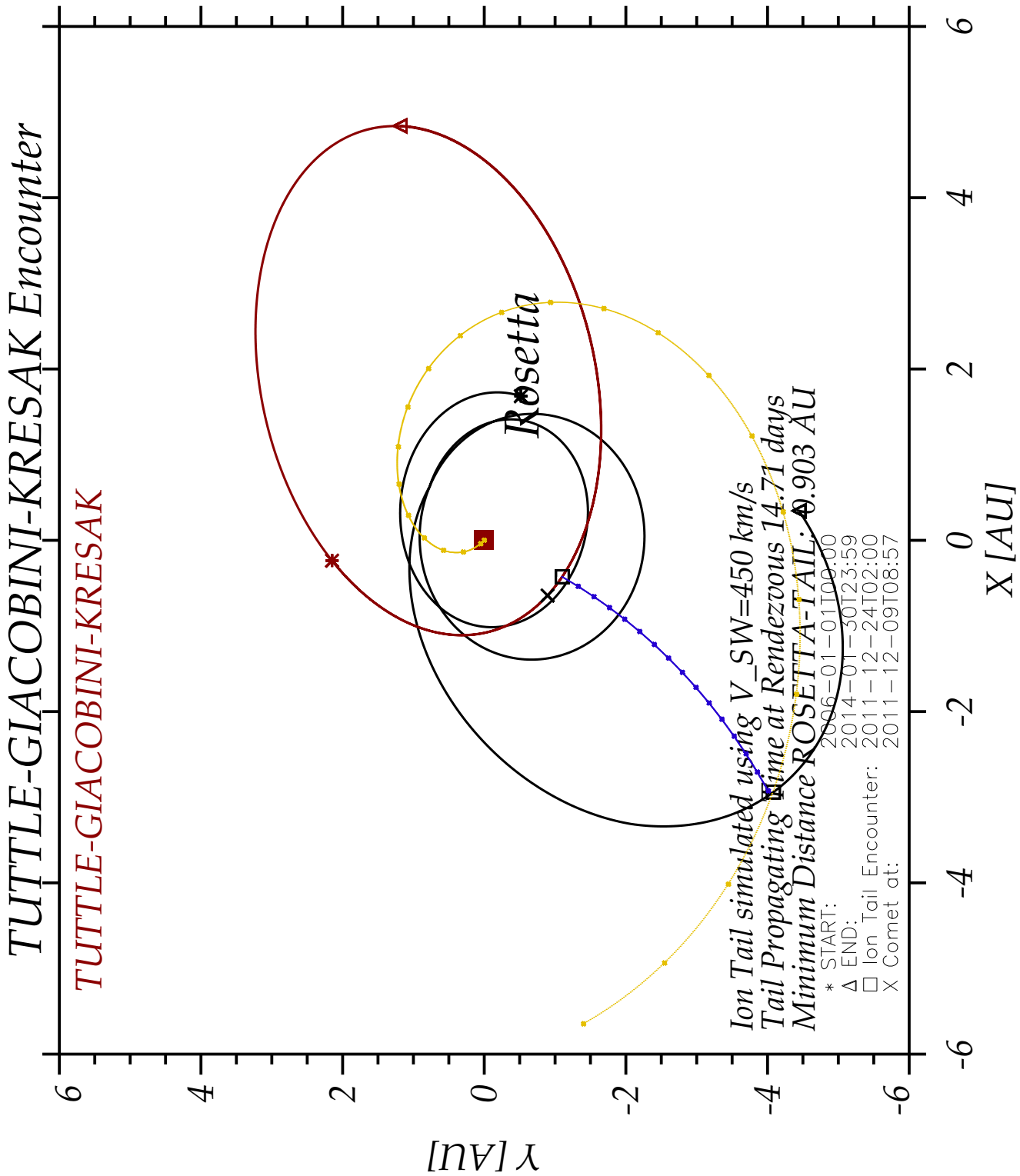


Figure 82: Overview: ROSETTA - TUTTLE-GIACOBINI-KRESAK

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44 Comet 42P/NEUJMIN 3

Comet: 42P/NEUJMIN 3
No Encounter below 0.2000AU

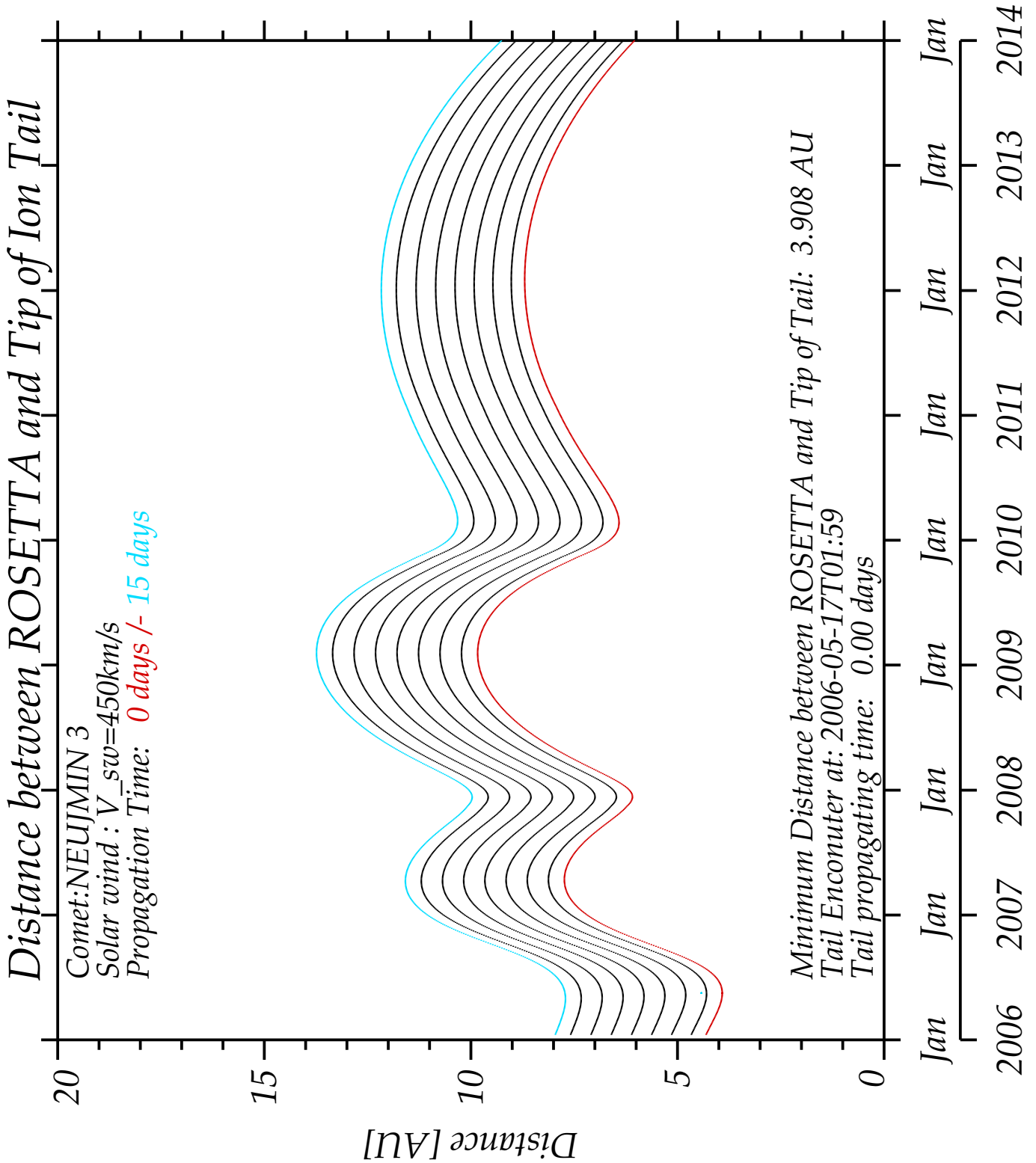


Figure 83: Minimum Distances: ROSETTA - NEUJMIN 3

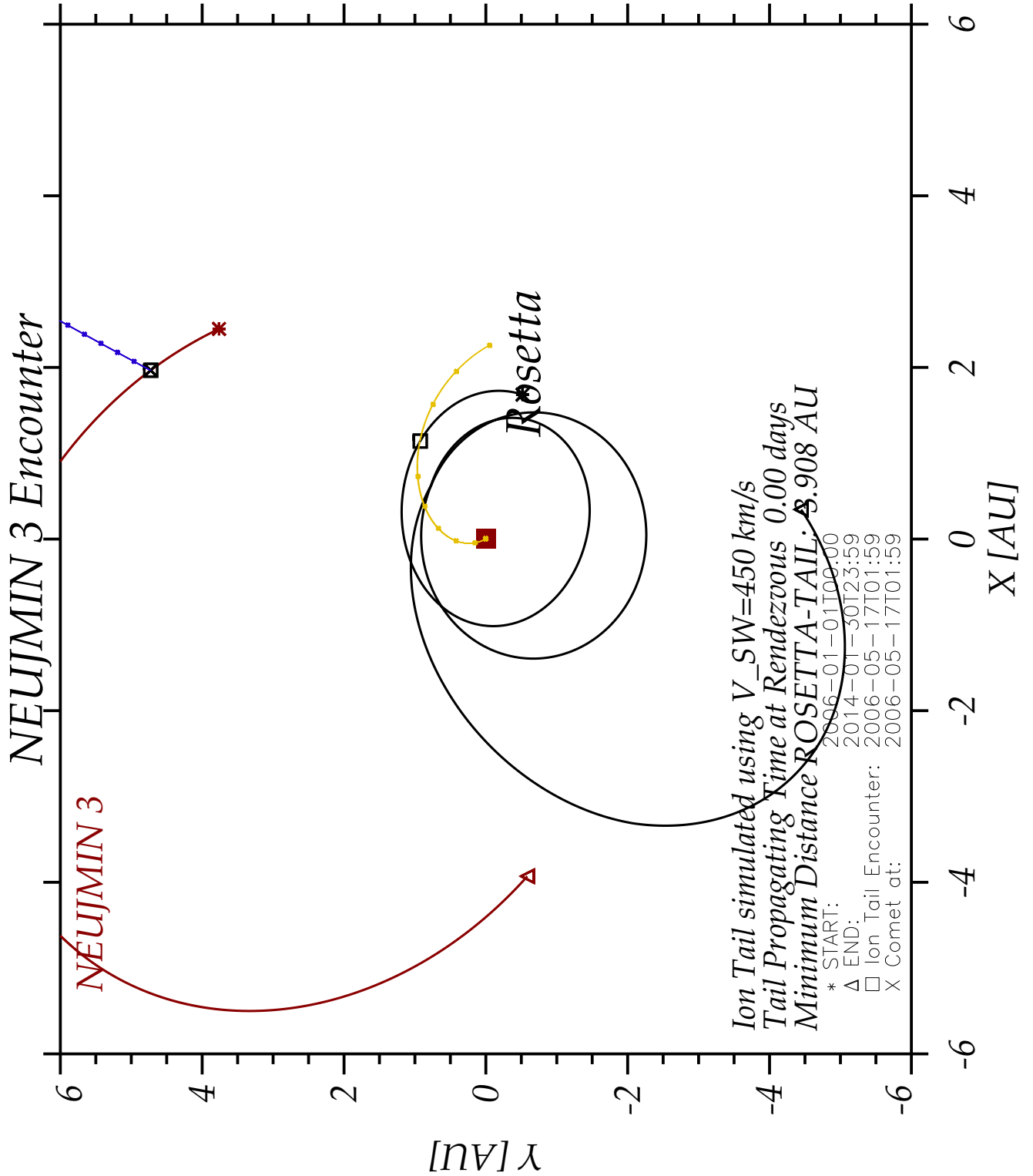


Figure 84: Overview: ROSETTA - NEUJMIN 3

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45 Comet 43P/WOLF-HARRINGTON

Comet: 43P/WOLF-HARRINGTON
No Encounter below 0.2000AU

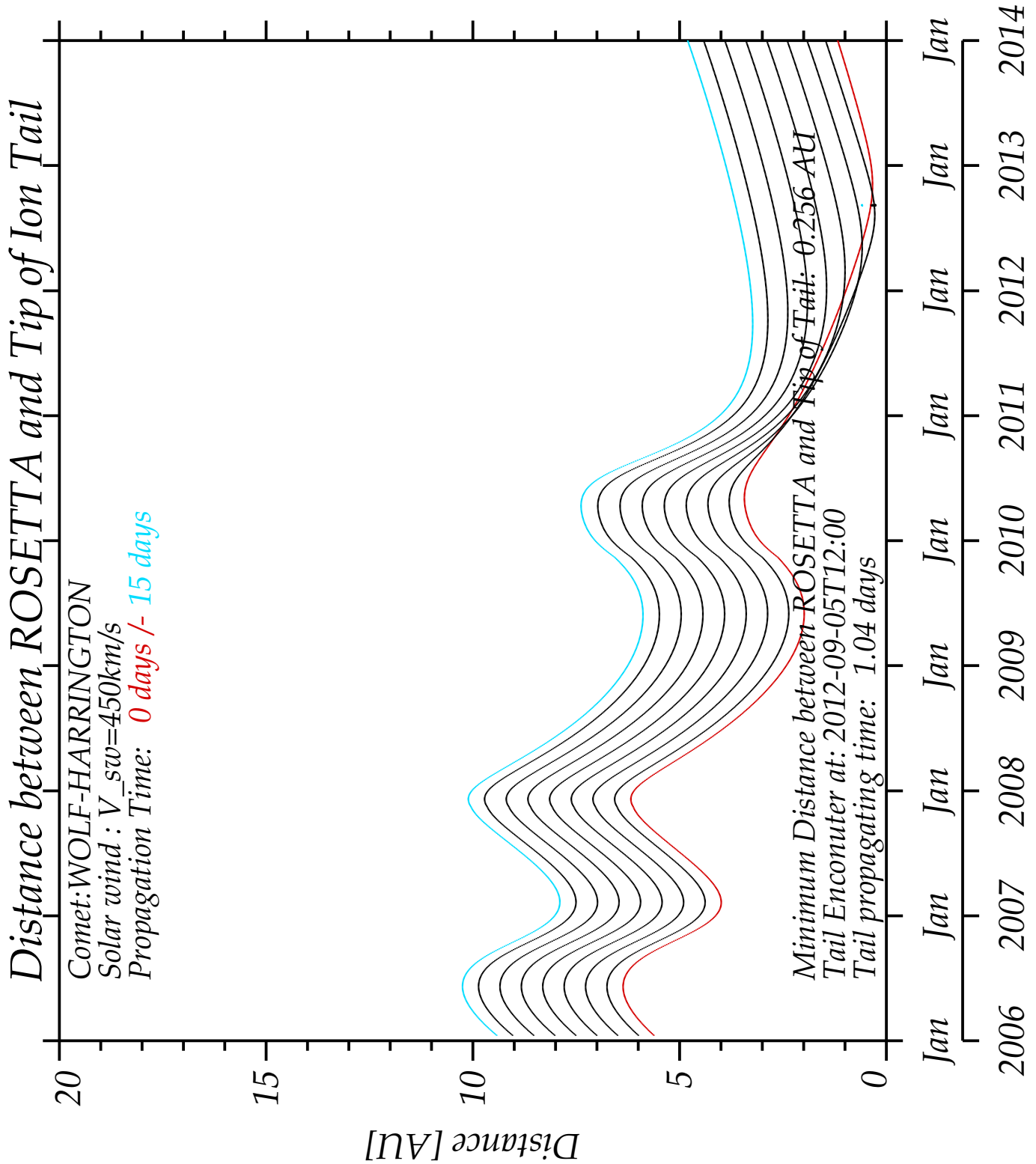


Figure 85: Minimum Distances: ROSETTA - WOLF-HARRINGTON

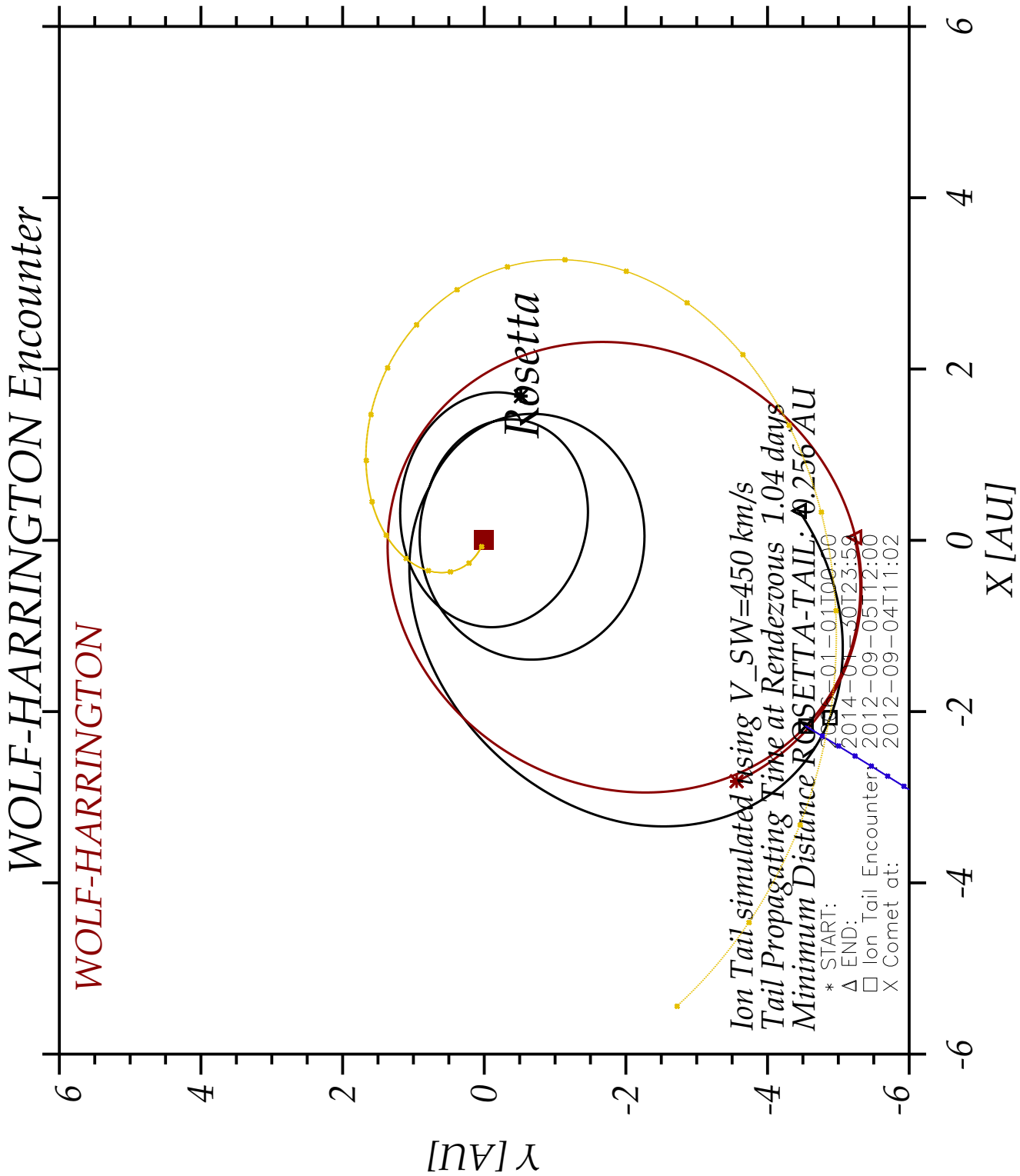


Figure 86: Overview: ROSETTA - WOLF-HARRINGTON

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46 Comet 44P/REINMUTH 2

Comet: 44P/REINMUTH 2
No Encounter below 0.2000AU

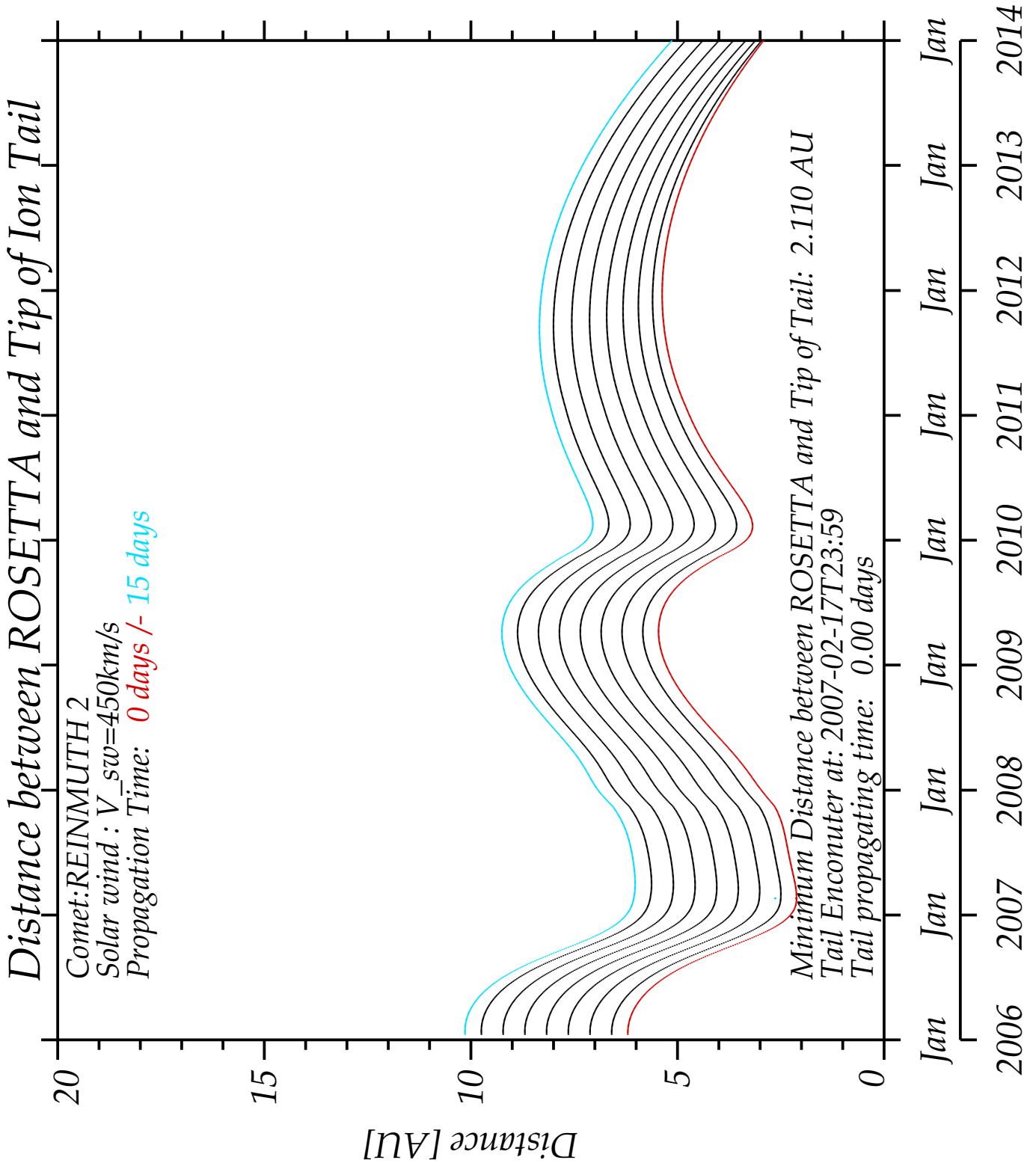


Figure 87: Minimum Distances: ROSETTA - REINMUTH 2

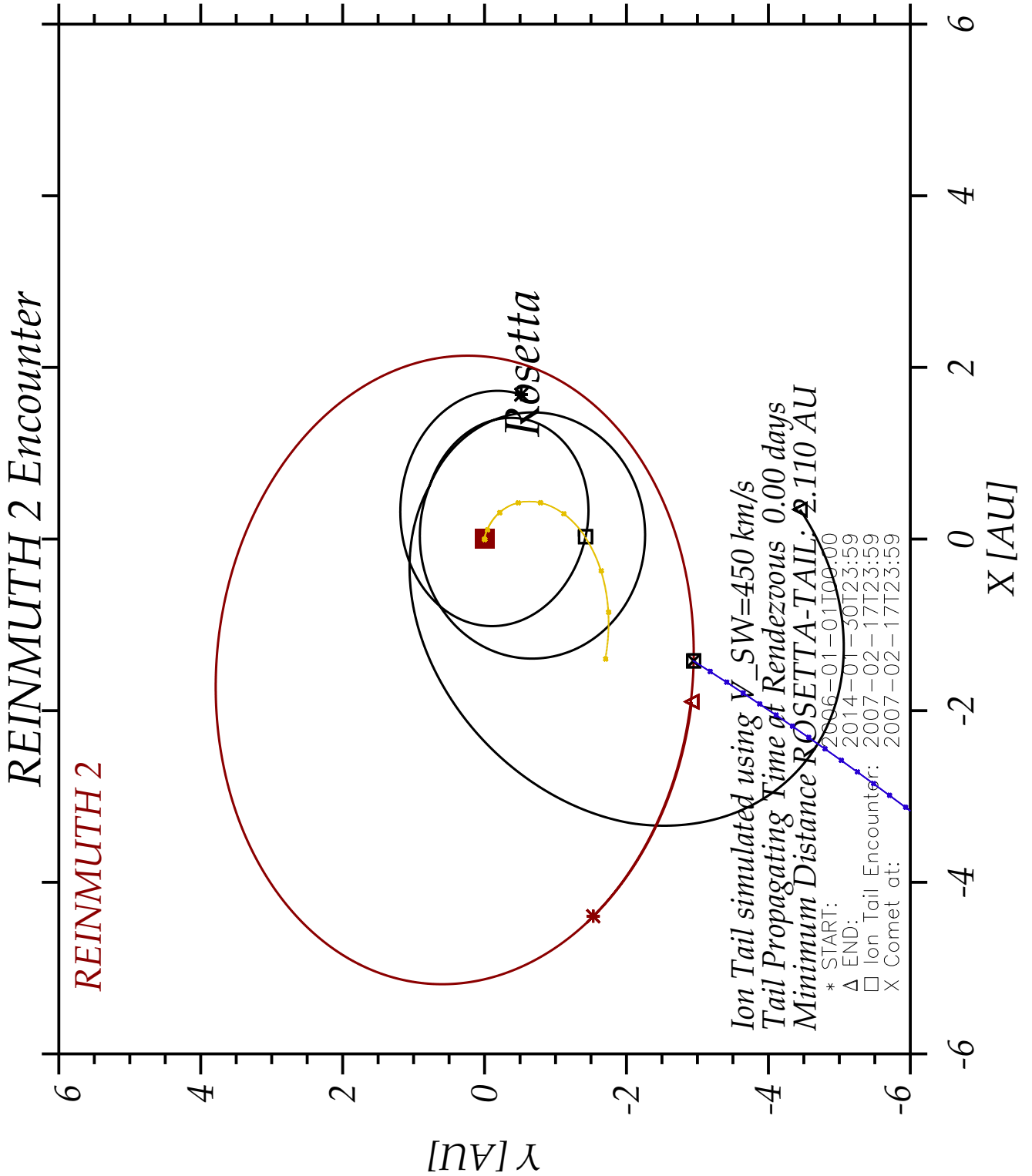


Figure 88: Overview: ROSETTA - REINMUTH 2

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47 Comet 45P/HONDA-MRKOS-PAJDUSAKOVA

Comet:	45P/HONDA-MRKOS-PAJDUSAKOVA				
Date of Encounter:	2006-07-06T19:30				
Minimum Distance					
ROSETTA/Ion Tail:	0.0620				AU
Position of ROSETTA	0.4418	1.1817	0.0310	1.2620	AU,[x,y,z],r
Position of COMET:	0.1073	0.5426	-0.0074	0.5532	AU,[x,y,z],r
Velocity of ROSETTA	-27.56	2.44	-0.13	27.67	km/s,[vx,vy,vz],v
Velocity of COMET:	-50.07	20.13	3.75	54.10	km/s,[vx,vy,vz],v
Tail Intersection Angle:	121.1				deg
Velocity of ROSETTA					
normal to Tail:	23.70				km/s
Progagting Time					
of Tail	2.790				days

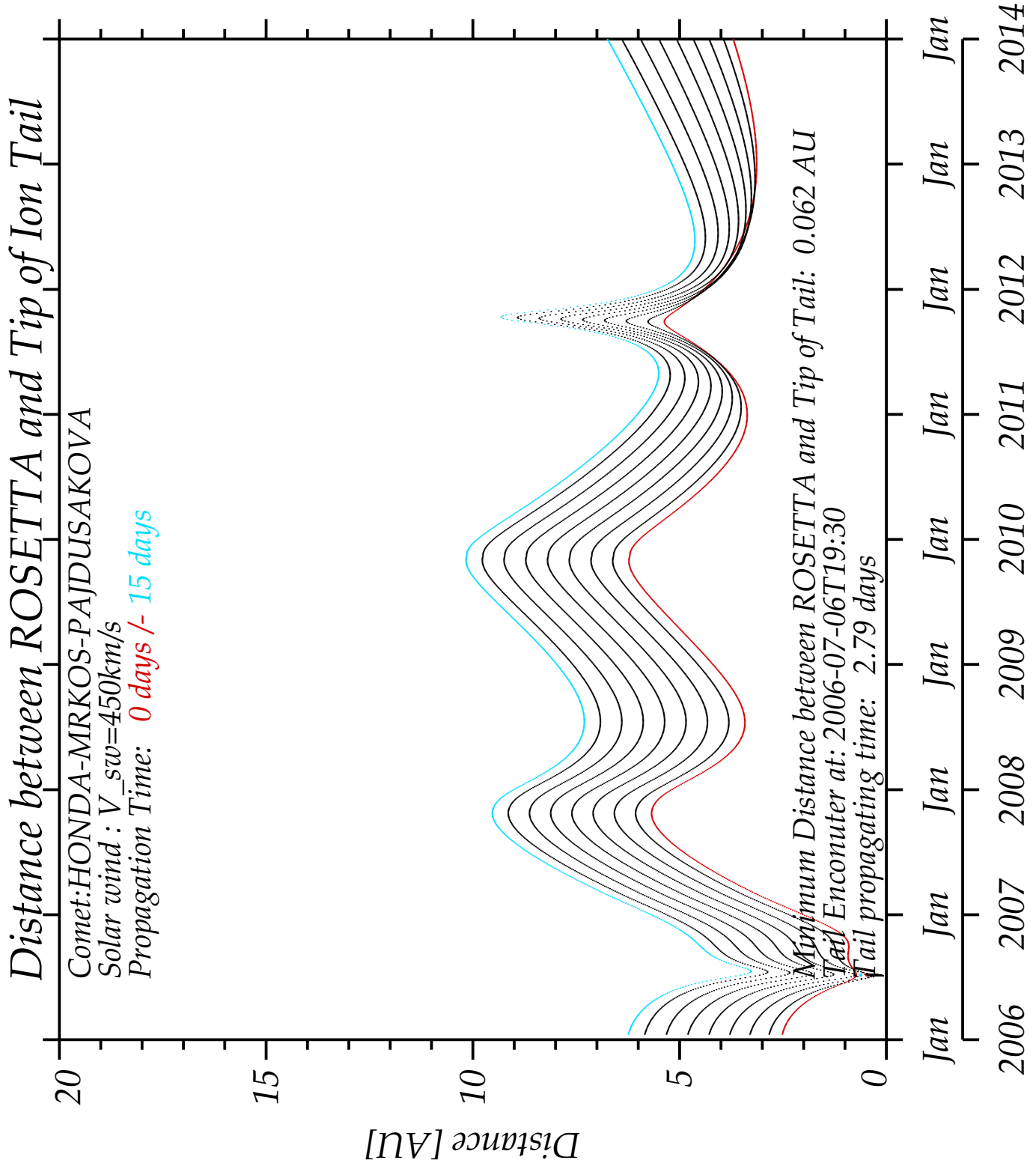


Figure 89: Minimum Distances: ROSETTA - HONDA-MRKOS-PAJDUSAKOVA

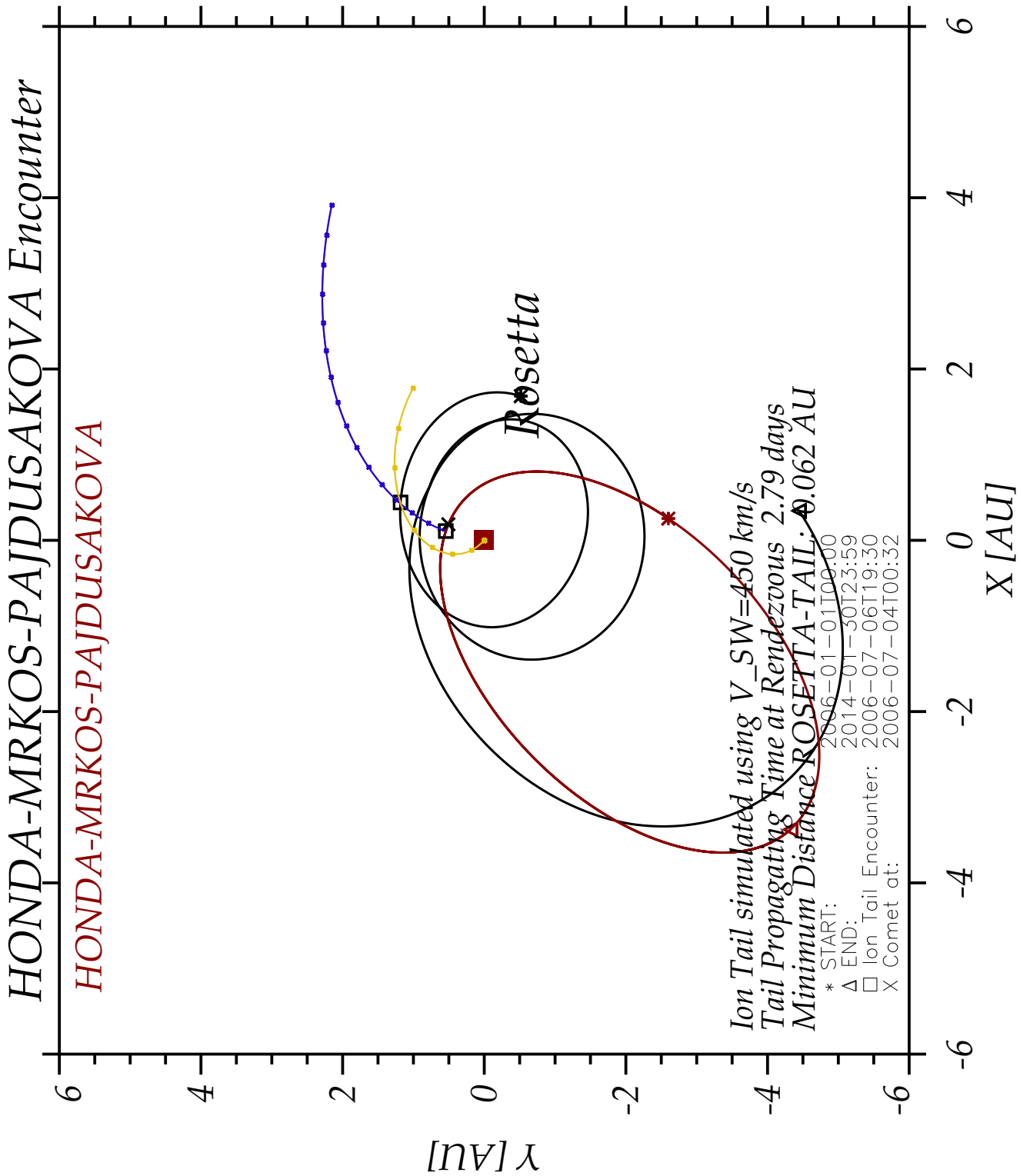


Figure 90: Overview: ROSETTA - HONDA-MRKOS-PAJDUSAKOVA

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48 Comet 46P/WIRTANEN

Comet: 46P/WIRTANEN
No Encounter below 0.2000AU

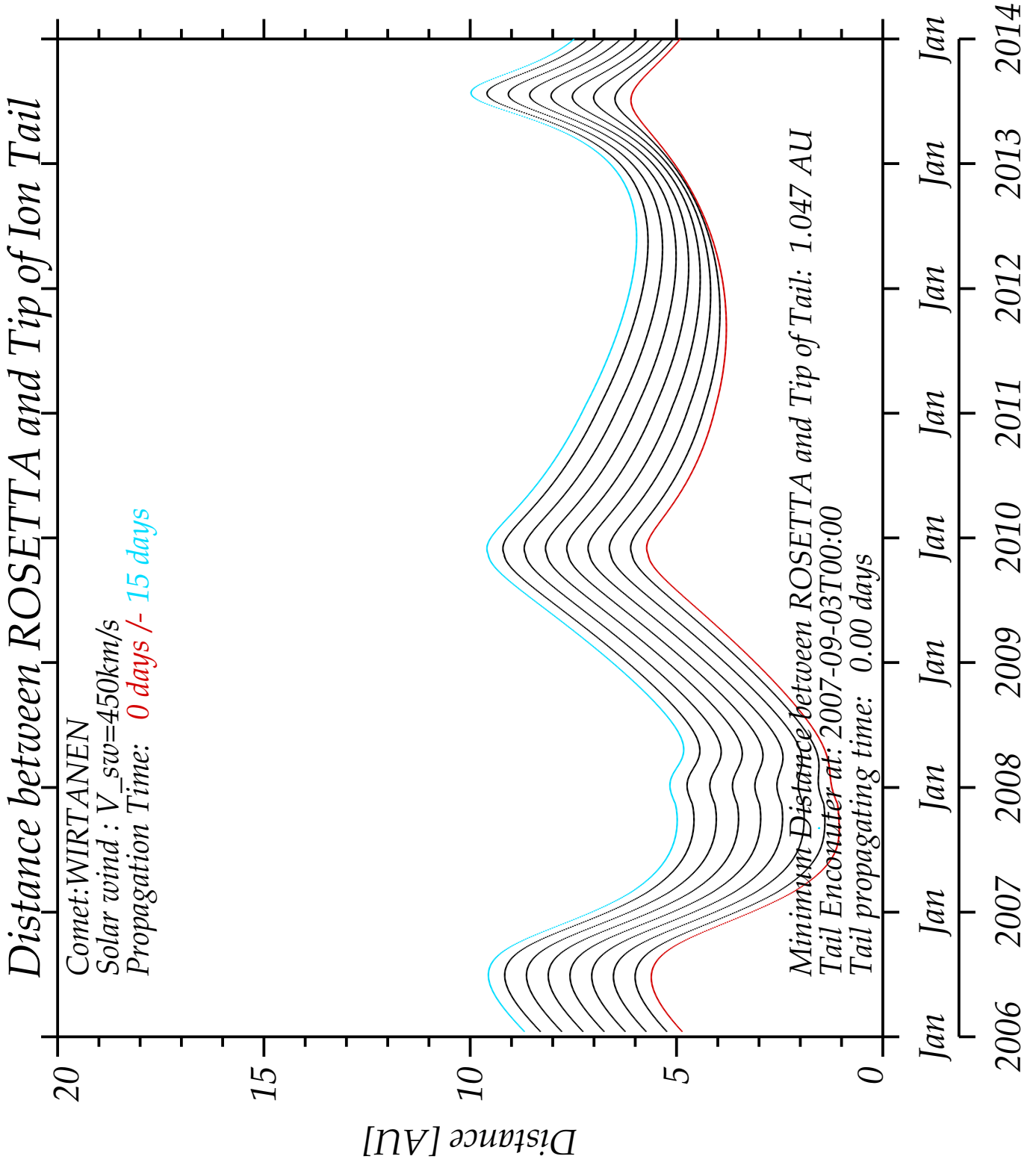


Figure 91: Minimum Distances: ROSETTA - WIRTANEN

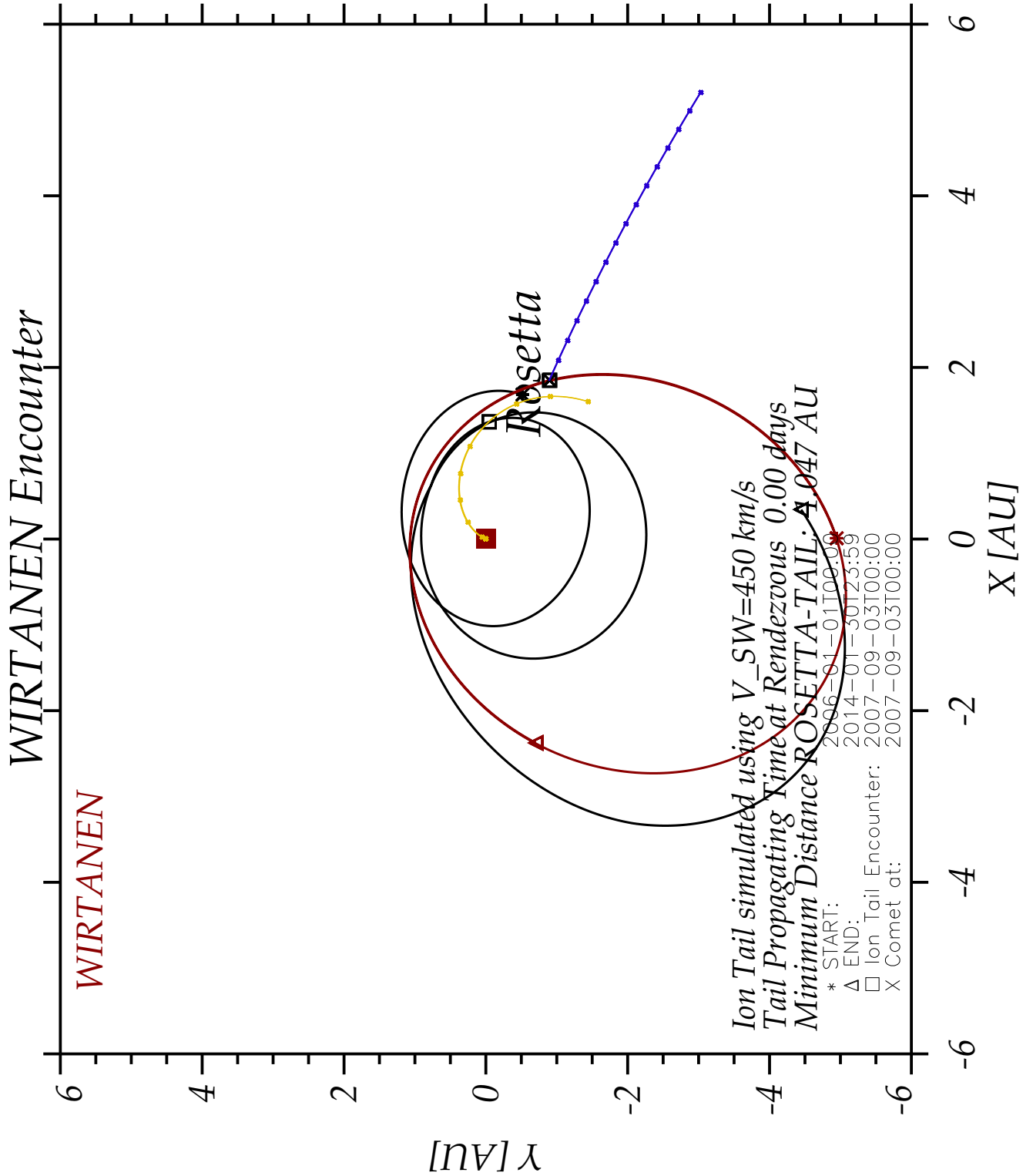


Figure 92: Overview: ROSETTA - WIRTANEN

<p style="text-align: center;">R O S E T T A</p>	<p>Document: RO-IGEP-TR-0020 Issue: 1 Revision: 2 Date: 2006-10-25 Page: 140</p>
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49 Comet 47P/ASHBROOK-JACKSON

<p>Comet: 47P/ASHBROOK-JACKSON</p>
<p>No Encounter below 0.2000AU</p>

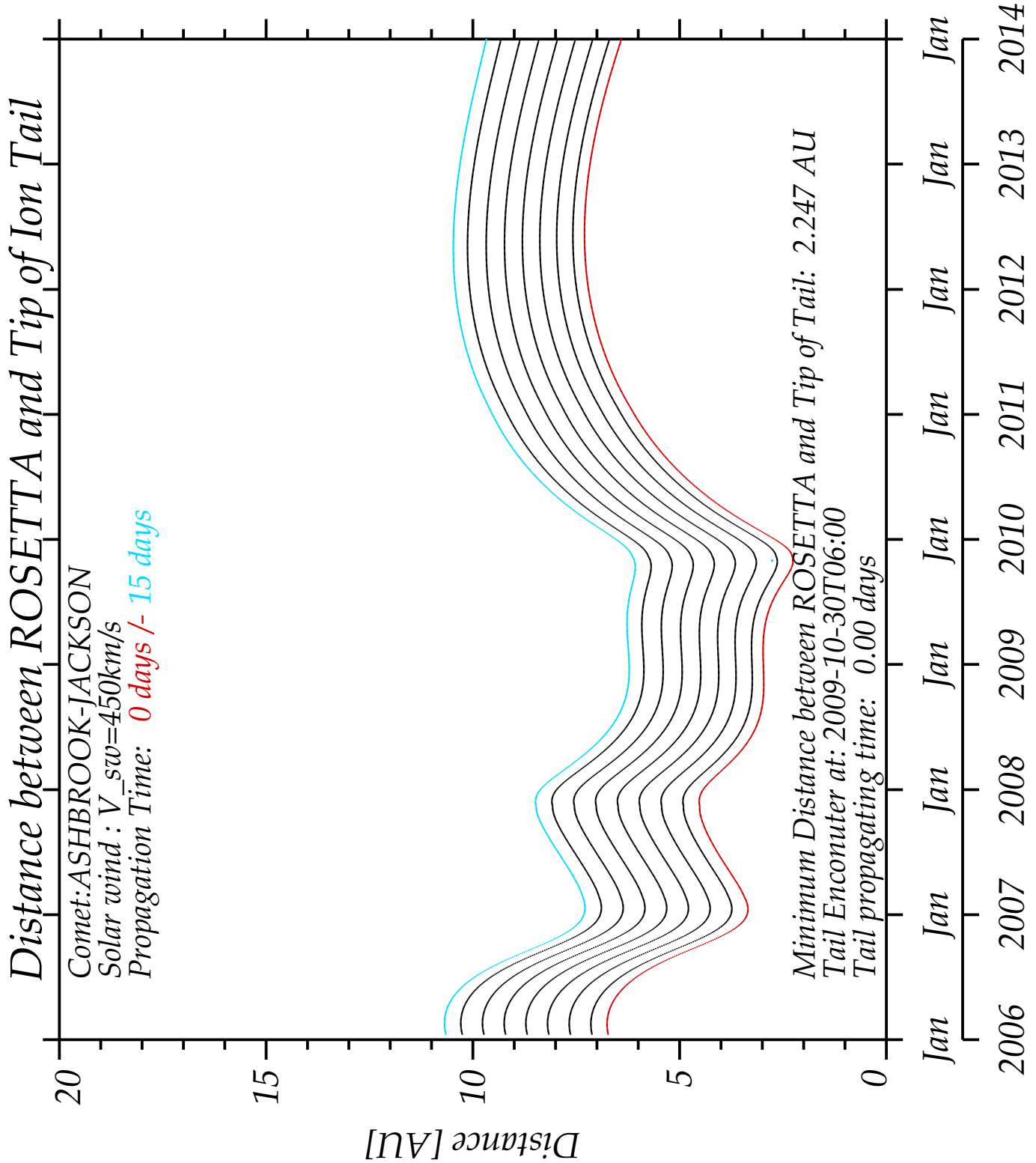


Figure 93: Minimum Distances: ROSETTA - ASHBROOK-JACKSON

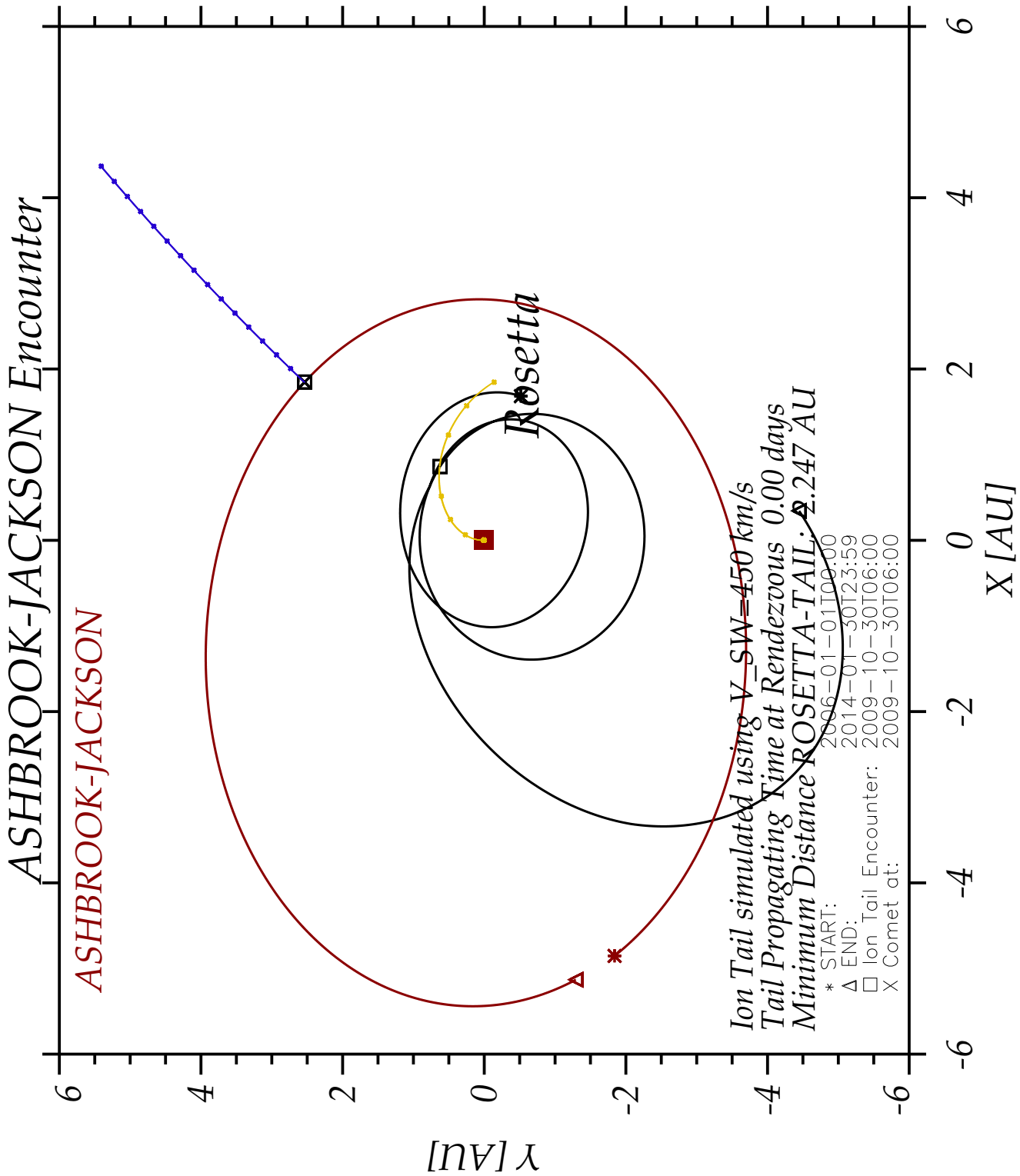


Figure 94: Overview: ROSETTA - ASHBROOK-JACKSON

<p style="text-align: center;">R O S E T T A</p>	<p>Document: RO-IGEP-TR-0020 Issue: 1 Revision: 2</p>
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50 Comet 48P/JOHNSON

<p>Comet: 48P/JOHNSON</p>
<p>No Encounter below 0.2000AU</p>

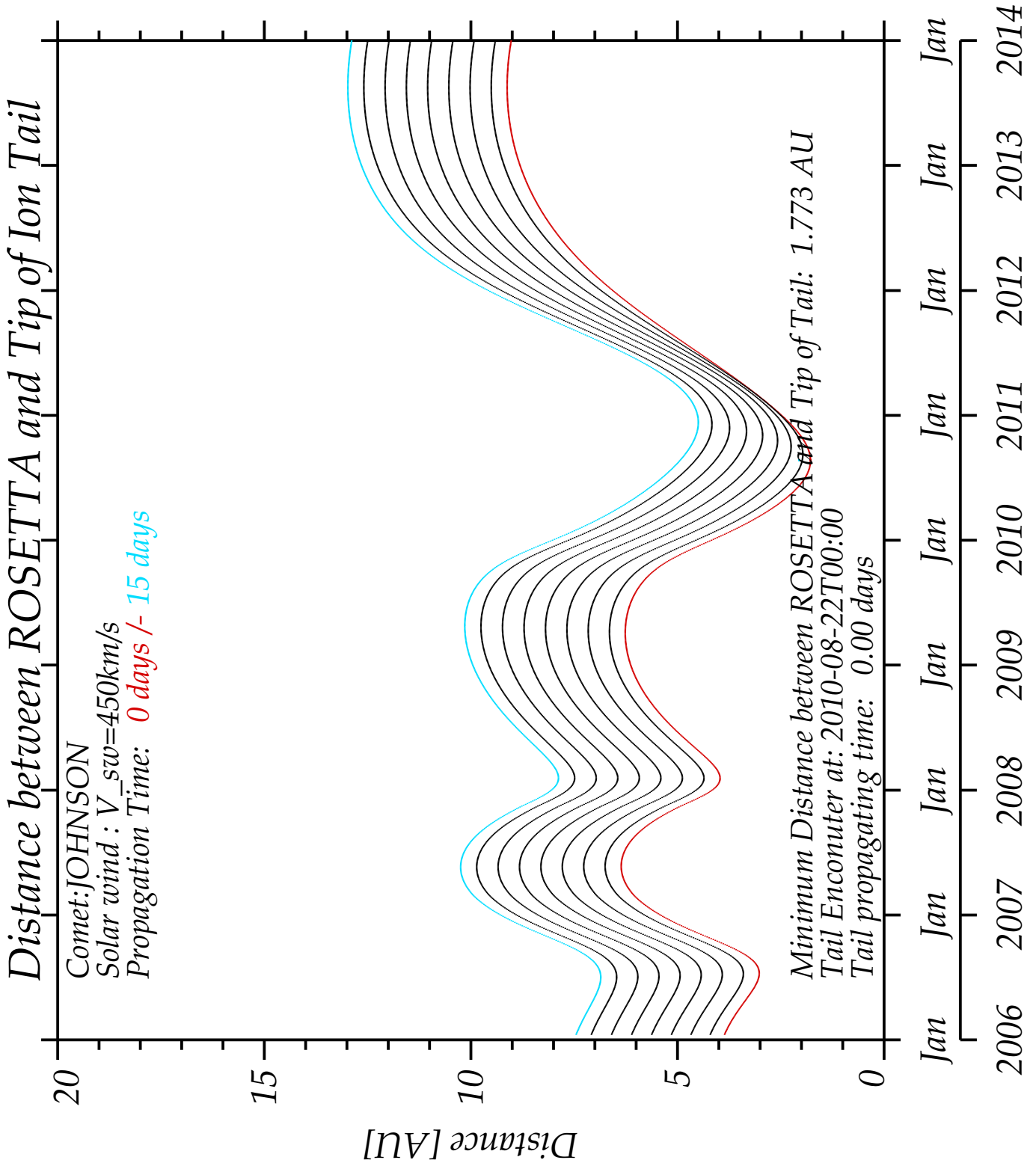


Figure 95: Minimum Distances: ROSETTA - JOHNSON

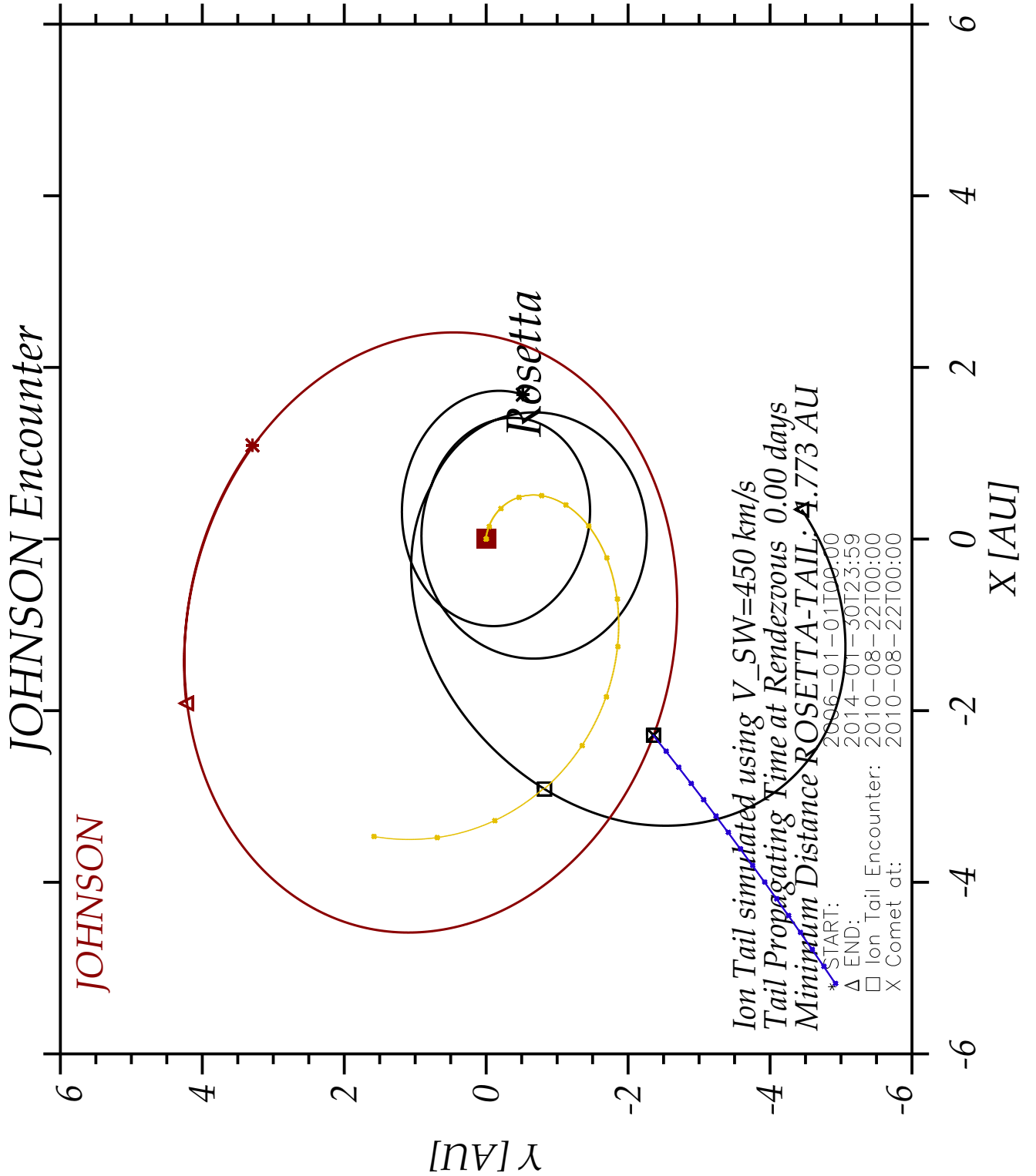


Figure 96: Overview: ROSETTA - JOHNSON

<p style="text-align: center;">R O S E T T A</p>	<p>Document: RO-IGEP-TR-0020 Issue: 1 Revision: 2 Date: 2006-10-25 Page: 146</p>
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51 Comet 49P/AREND-RIGAUX

<p>Comet: 49P/AREND-RIGAUX</p>
<p>No Encounter below 0.2000AU</p>

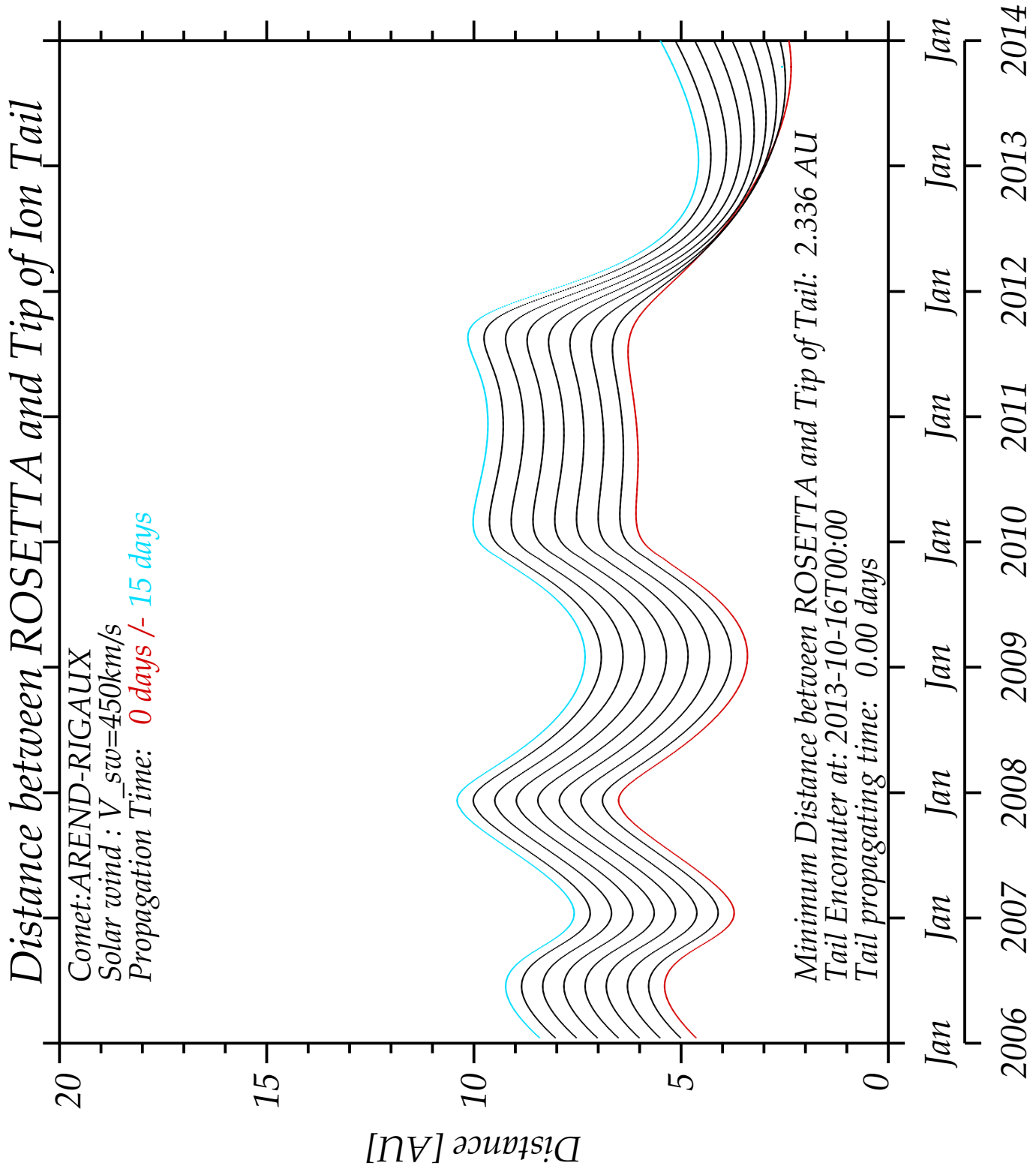


Figure 97: Minimum Distances: ROSETTA - AREND-RIGAUX

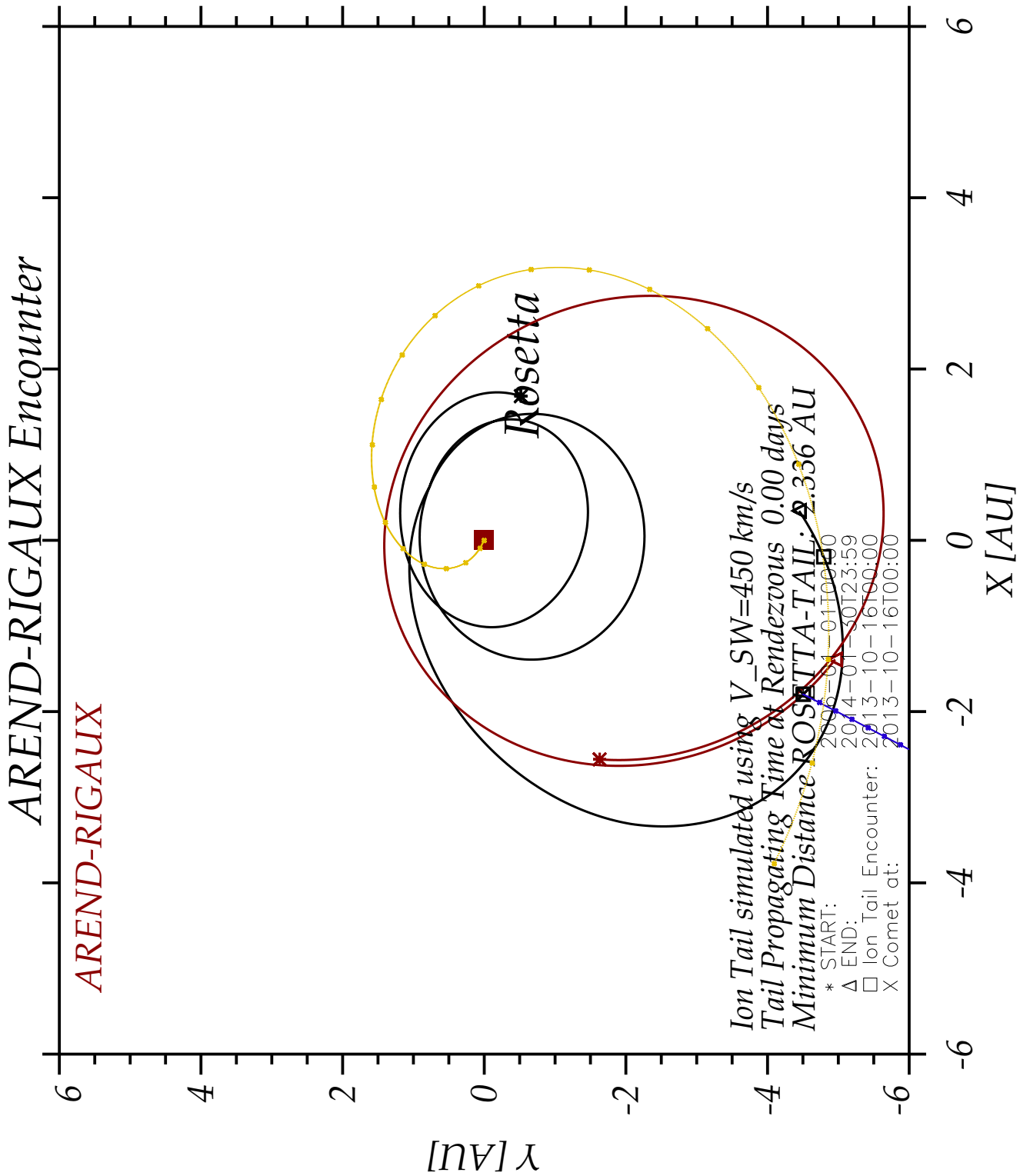


Figure 98: Overview: ROSETTA - AREND-RIGAUX

<p style="text-align: center;">R O S E T T A</p>	<p>Document: RO-IGEP-TR-0020 Issue: 1 Revision: 2</p>
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52 Comet 50P/AREND

<p>Comet: 50P/AREND</p>
<p>No Encounter below 0.2000AU</p>

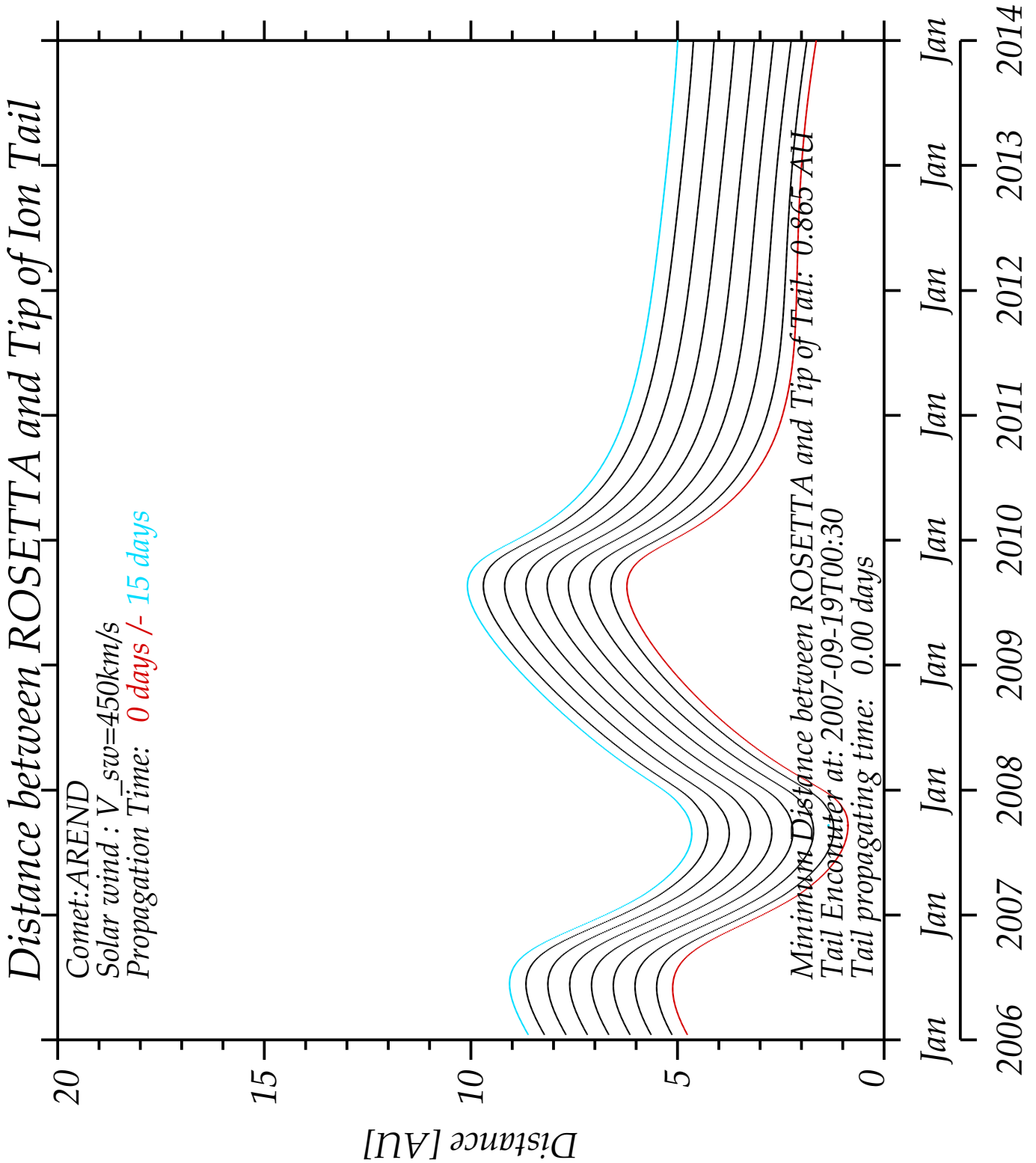


Figure 99: Minimum Distances: ROSETTA - AREND

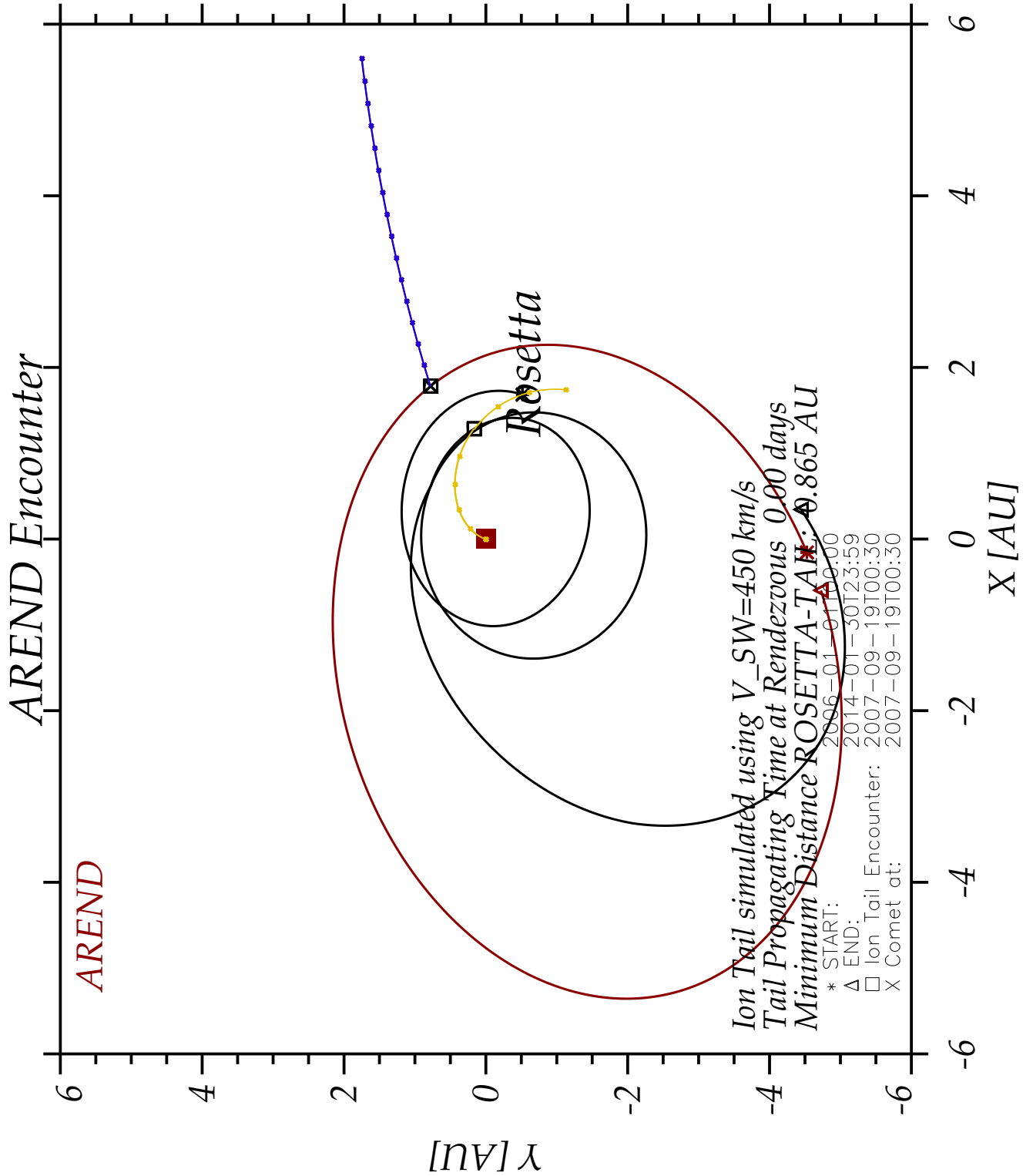


Figure 100: Overview: ROSETTA - AREND

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53 Comet 51P/HARRINGTON

Comet: 51P/HARRINGTON
No Encounter below 0.2000AU

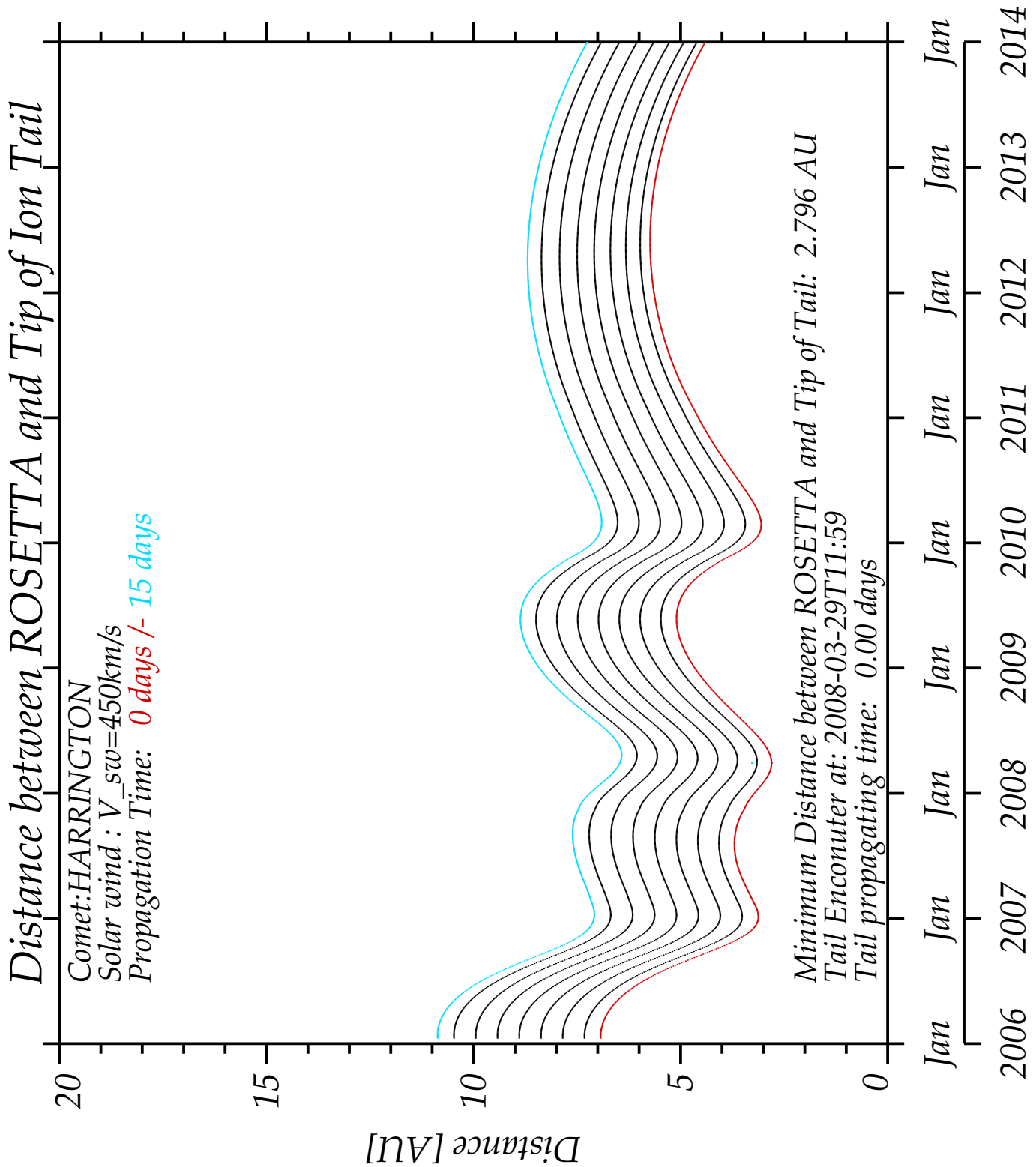


Figure 101: Minimum Distances: ROSETTA - HARRINGTON

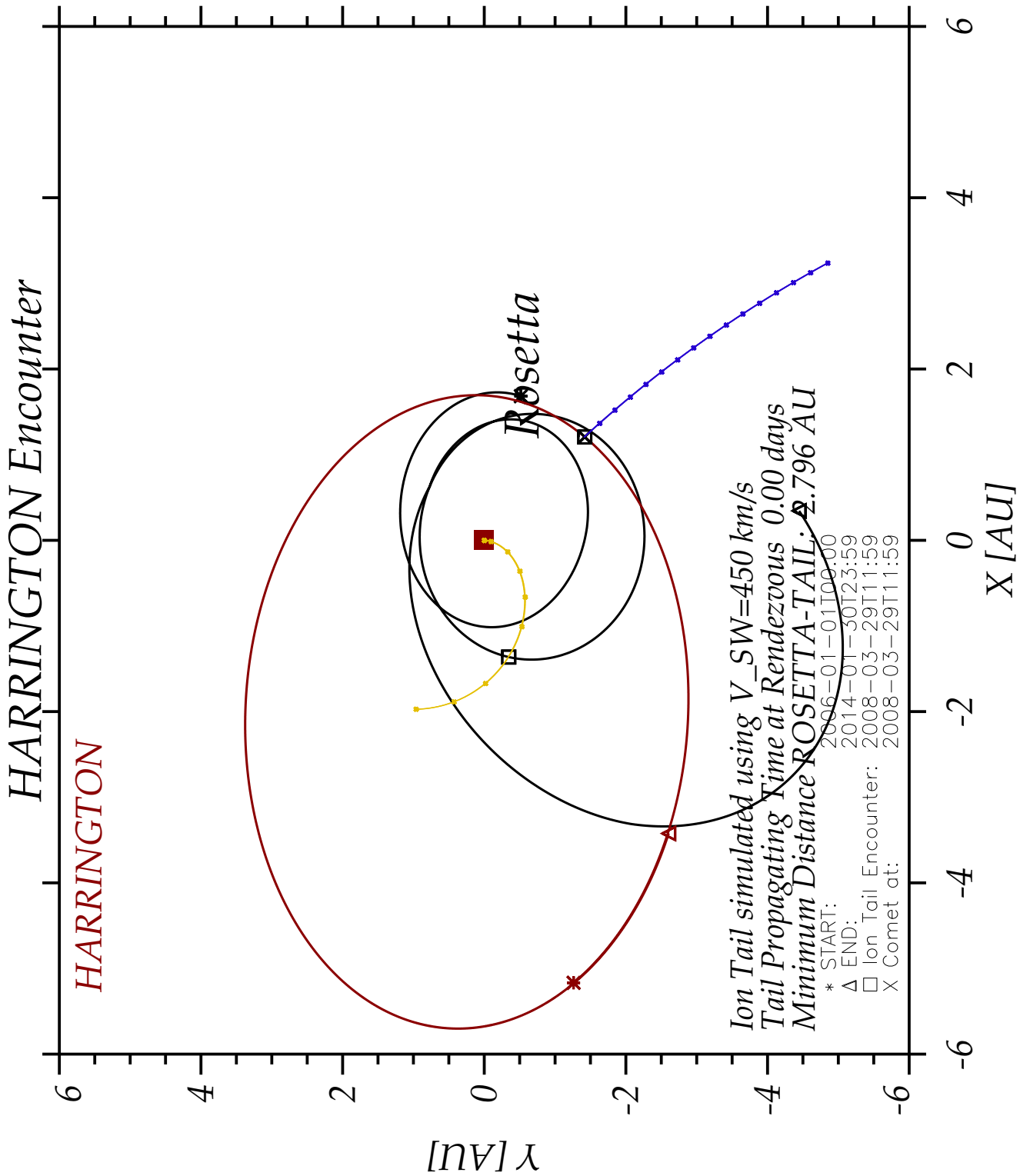


Figure 102: Overview: ROSETTA - HARRINGTON

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54 Comet 51P-A/HARRINGTON-A

Comet: 51P-A/HARRINGTON-A
No Encounter below 0.2000AU

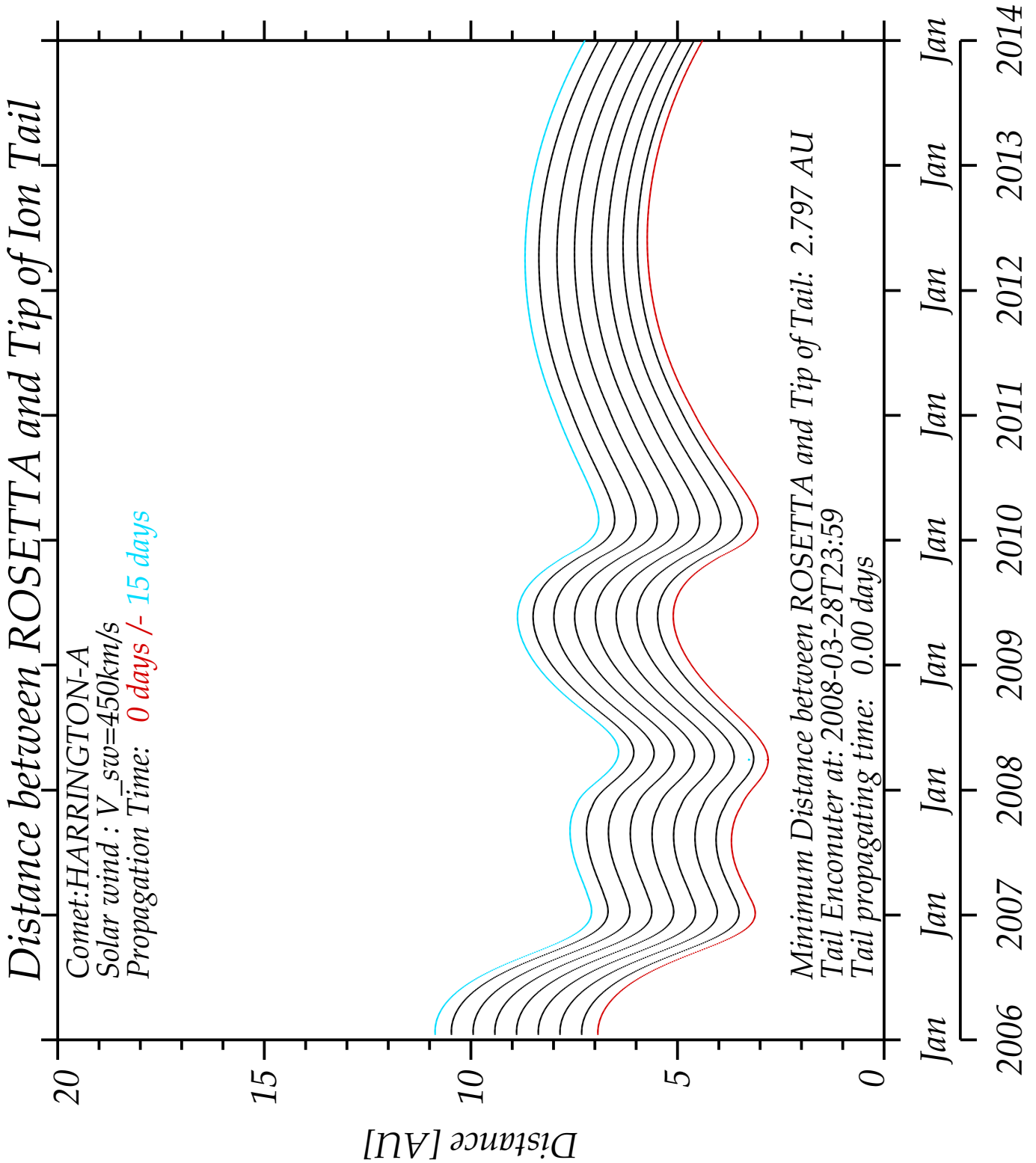


Figure 103: Minimum Distances: ROSETTA - HARRINGTON-A

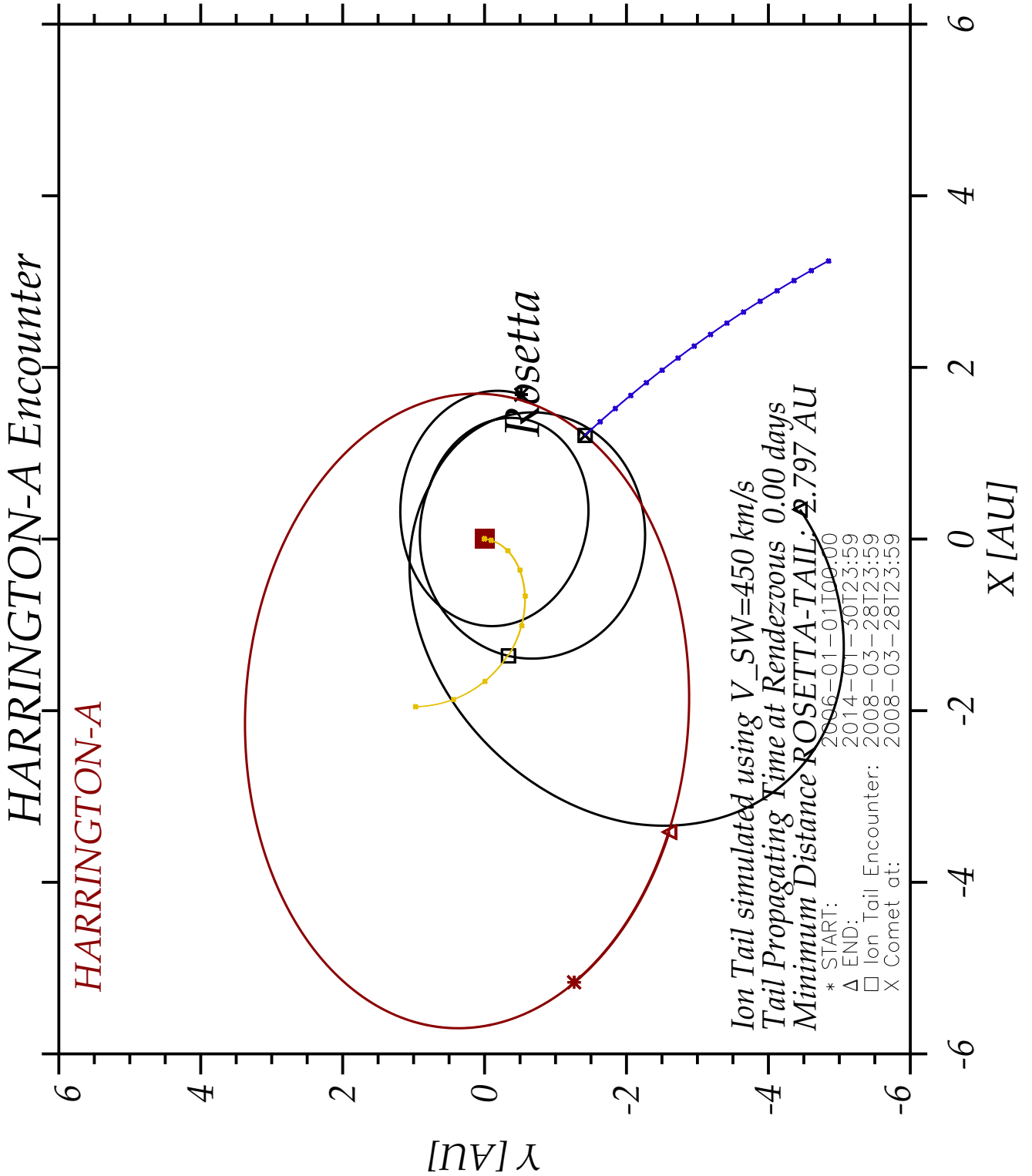


Figure 104: Overview: ROSETTA - HARRINGTON-A

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55 Comet 52P/HARRINGTON-ABELL

Comet: 52P/HARRINGTON-ABELL
No Encounter below 0.2000AU

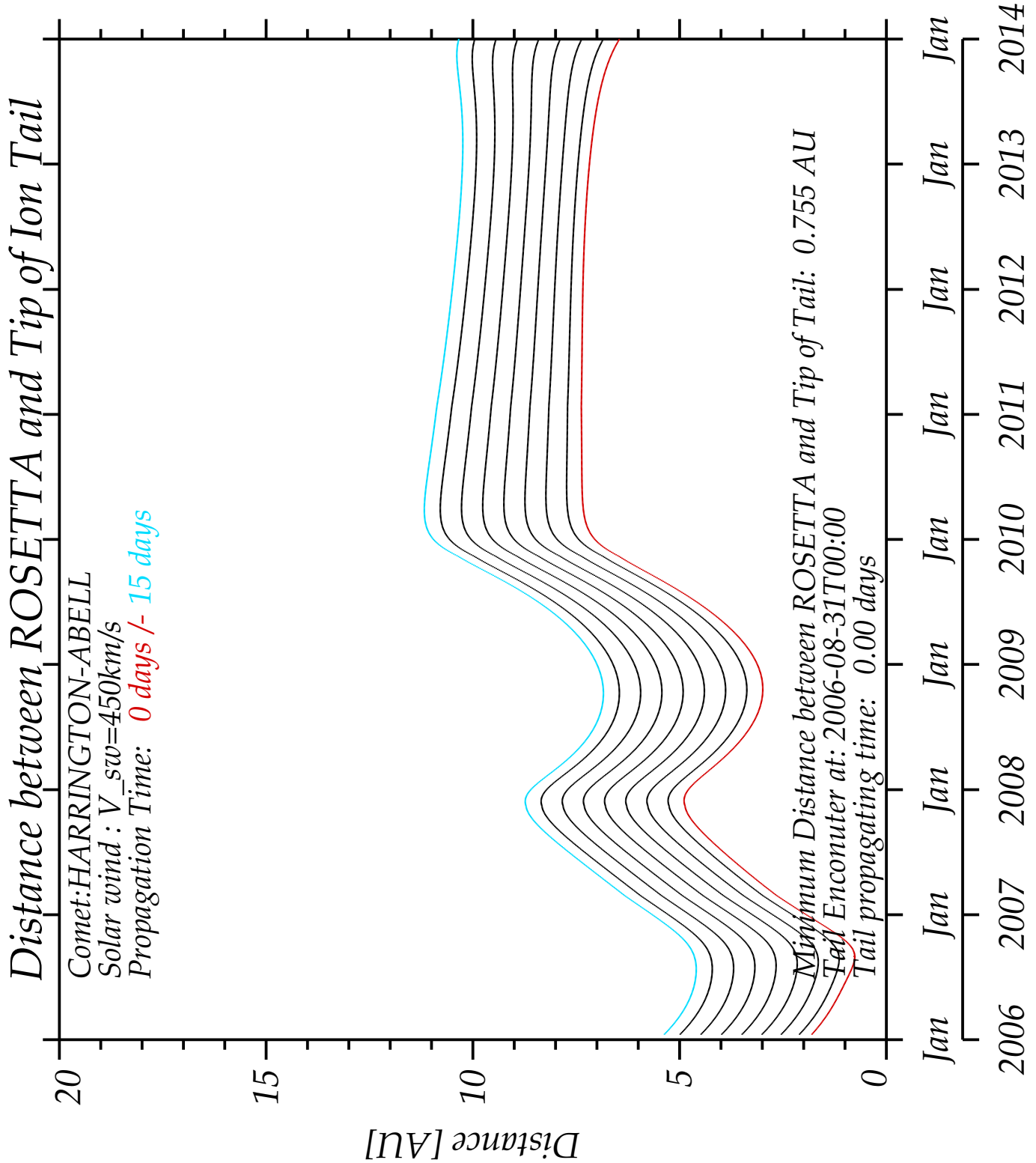


Figure 105: Minimum Distances: ROSETTA - HARRINGTON-ABELL

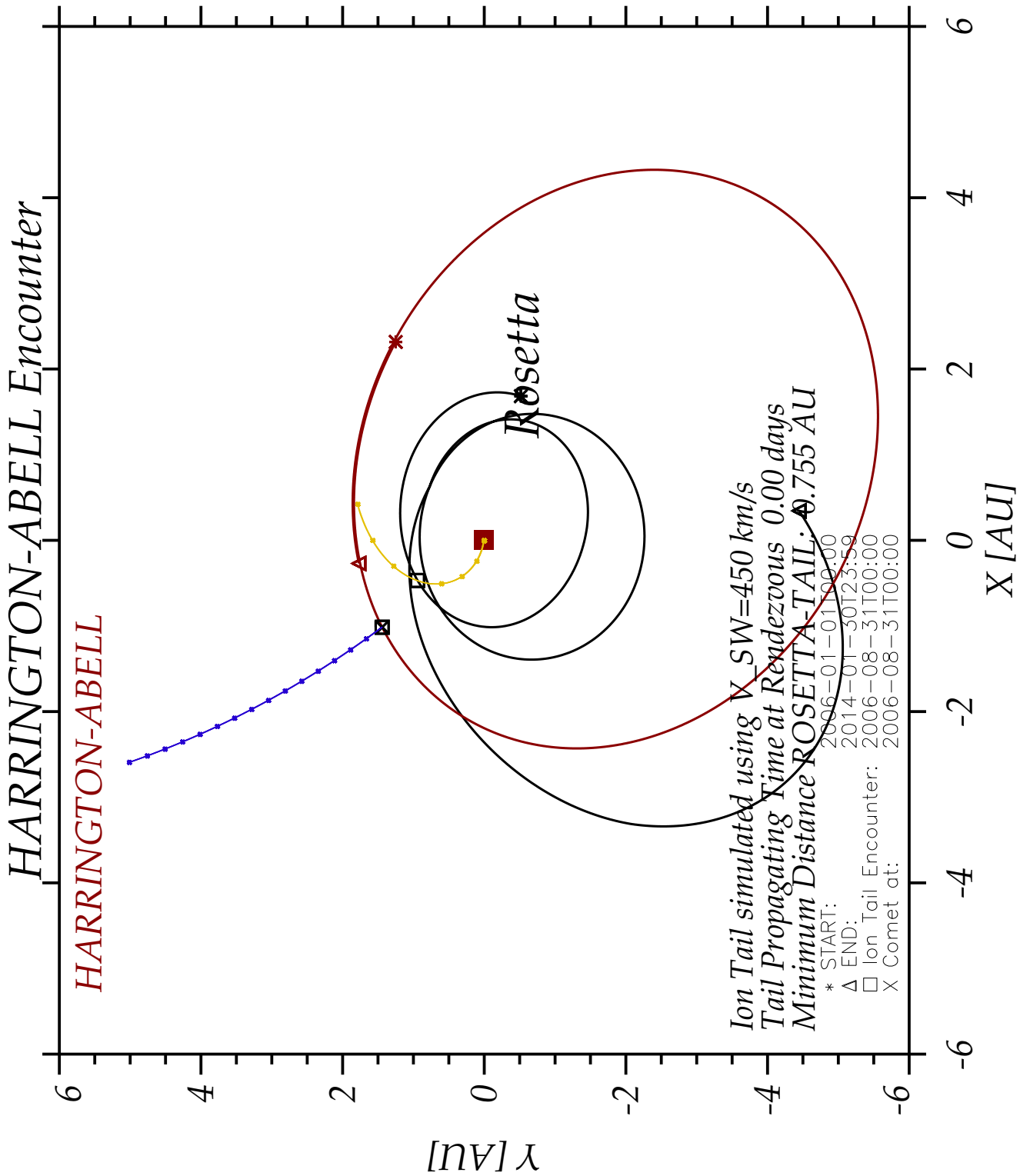


Figure 106: Overview: ROSETTA - HARRINGTON-ABELL

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56 Comet 53P/VAN BIESBROECK

Comet: 53P/VAN BIESBROECK
No Encounter below 0.2000AU

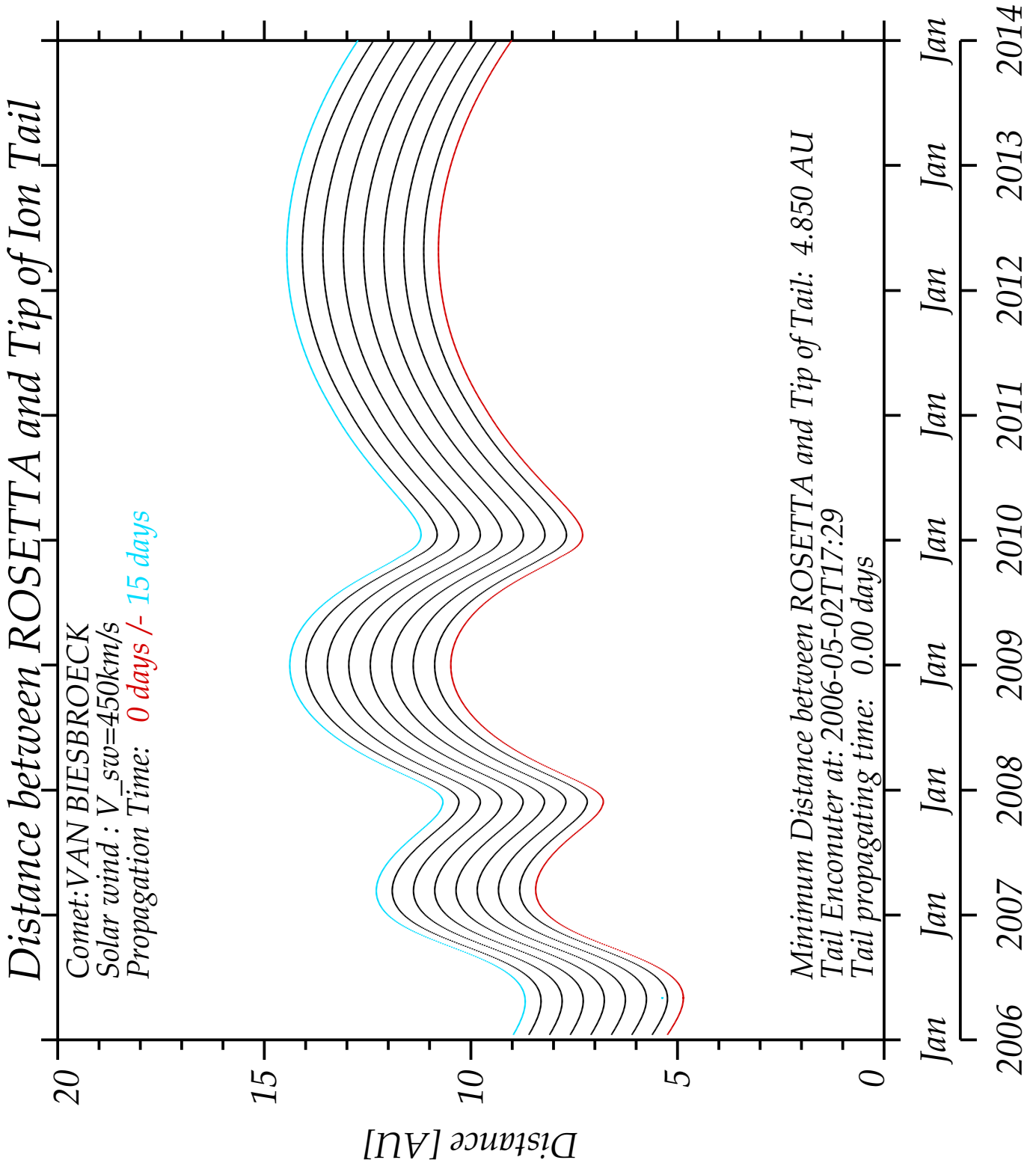


Figure 107: Minimum Distances: ROSETTA - VAN BIESBROECK

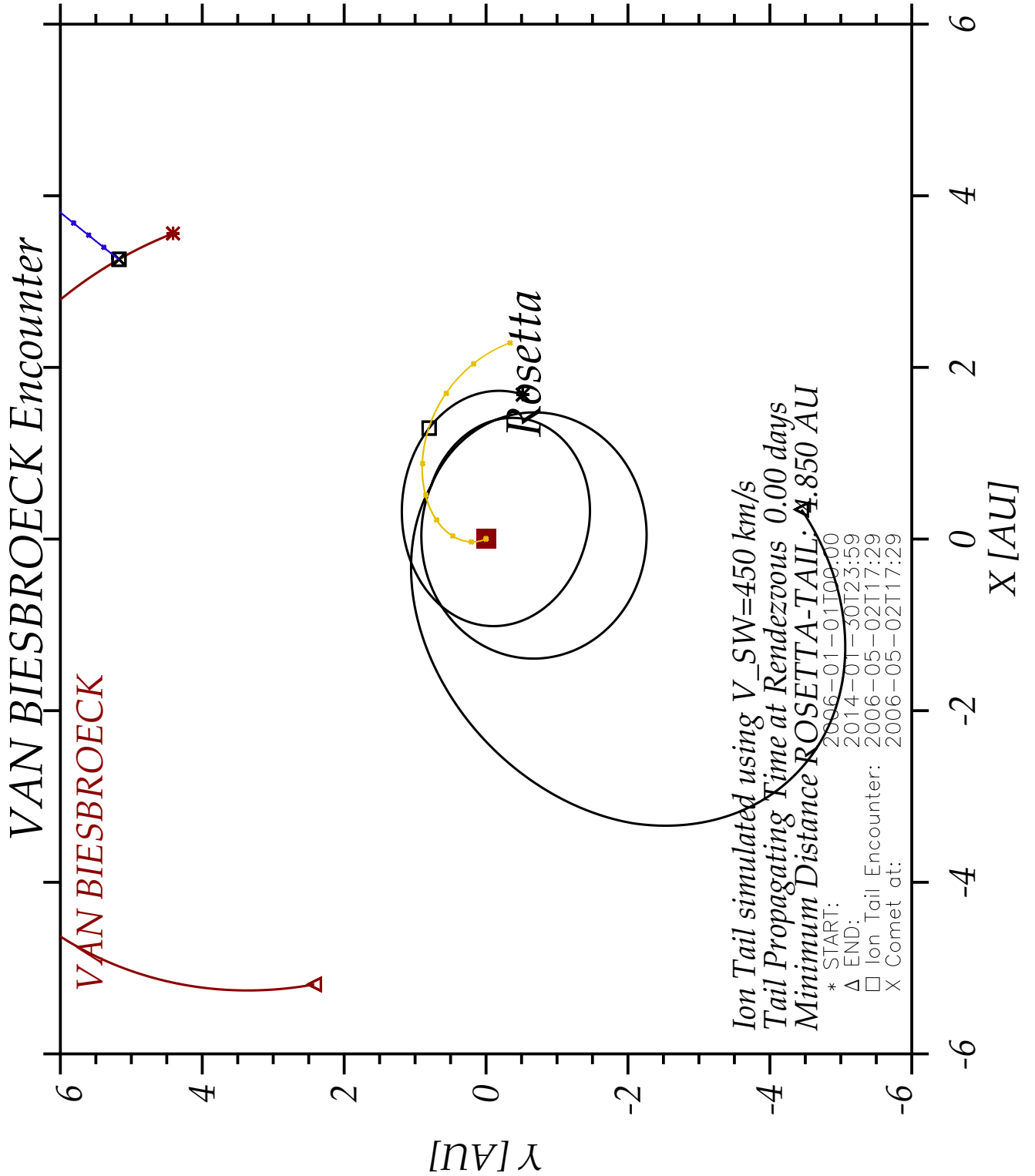


Figure 108: Overview: ROSETTA - VAN BIESBROECK

<p style="text-align: center;">R O S E T T A</p>	<p>Document: RO-IGEP-TR-0020 Issue: 1 Revision: 2 Date: 2006-10-25 Page: 164</p>
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57 Comet 54P/DE VICO-SWIFT

<p>Comet: 54P/DE VICO-SWIFT</p>
<p>No Encounter below 0.2000AU</p>

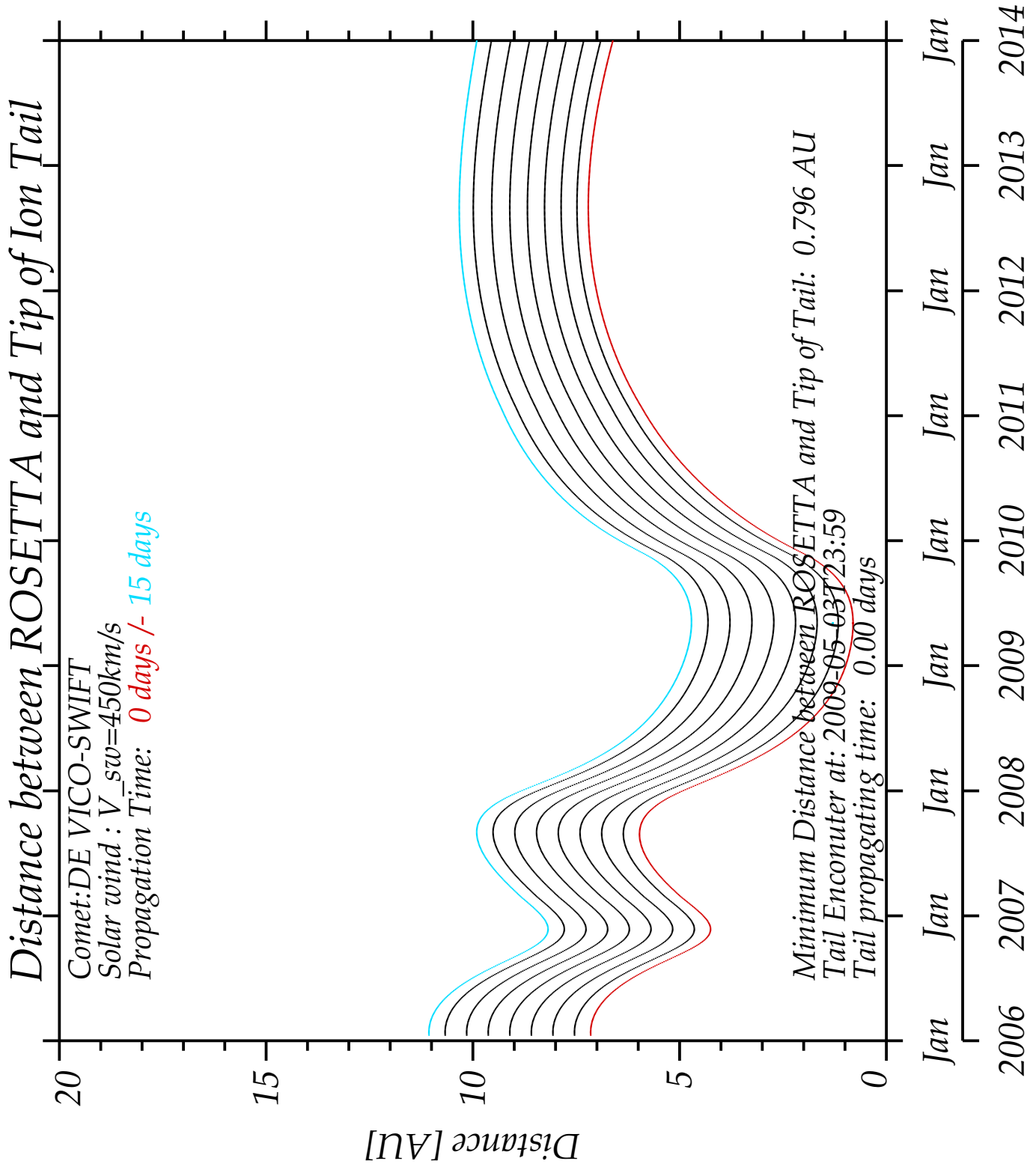


Figure 109: Minimum Distances: ROSETTA - DE VICO-SWIFT

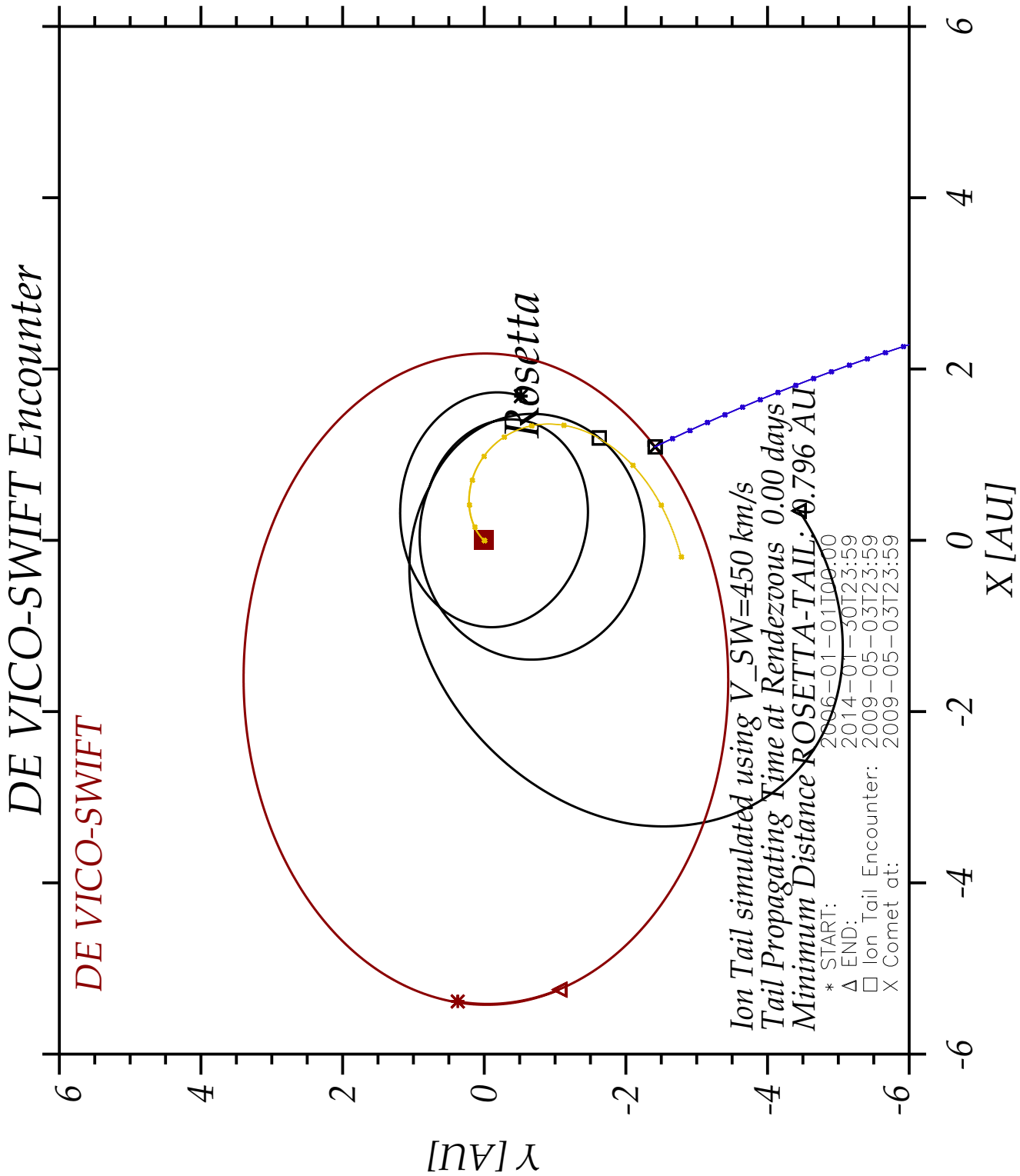


Figure 110: Overview: ROSETTA - DE VICO-SWIFT

<p style="text-align: center;">R O S E T T A</p>	<p>Document: RO-IGEP-TR-0020 Issue: 1 Revision: 2</p>
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58 Comet 55P/TEMPEL-TUTTLE

<p>Comet: 55P/TEMPEL-TUTTLE</p>
<p>No Encounter below 0.2000AU</p>

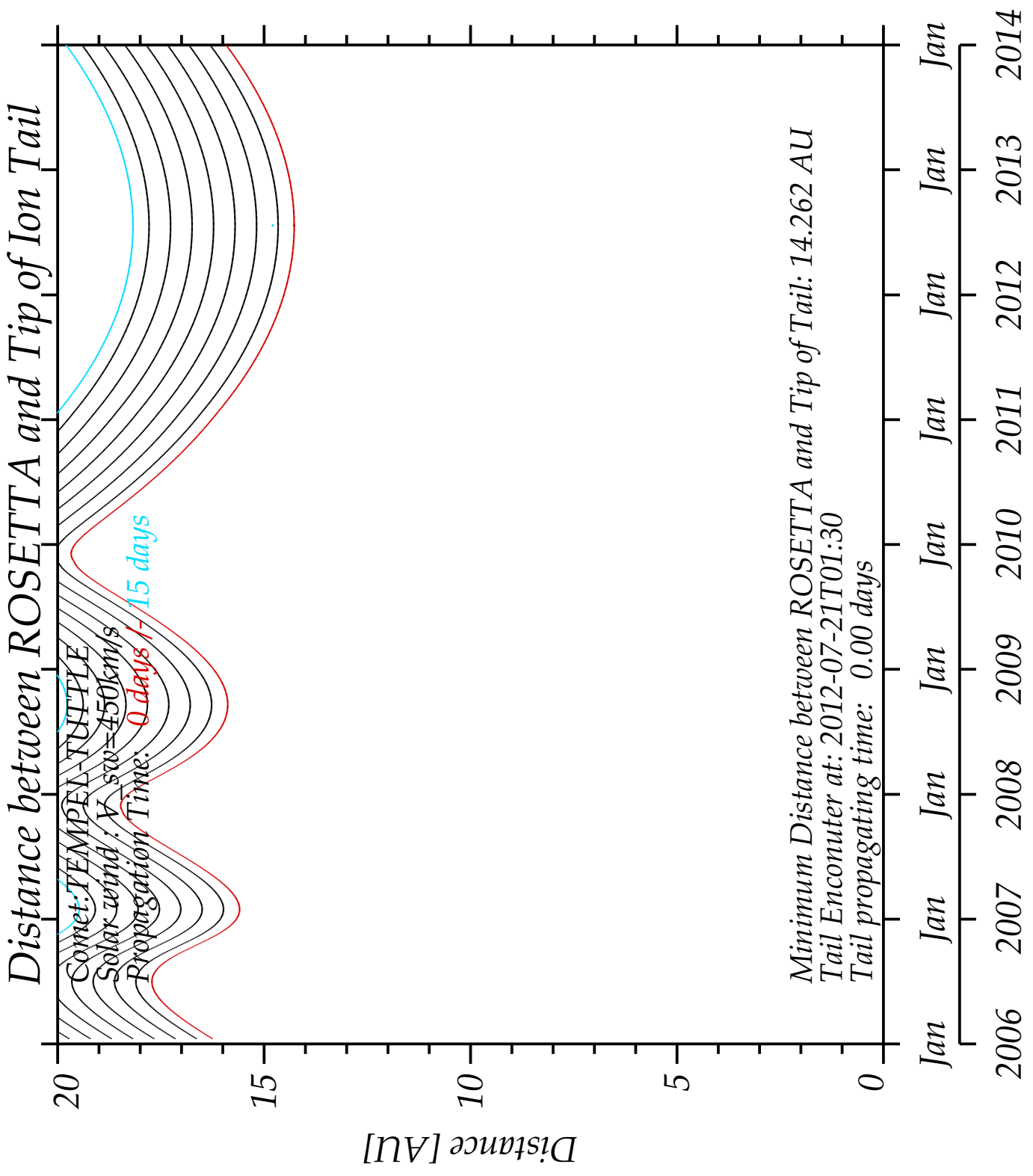


Figure 111: Minimum Distances: ROSETTA - TEMPEL-TUTTLE

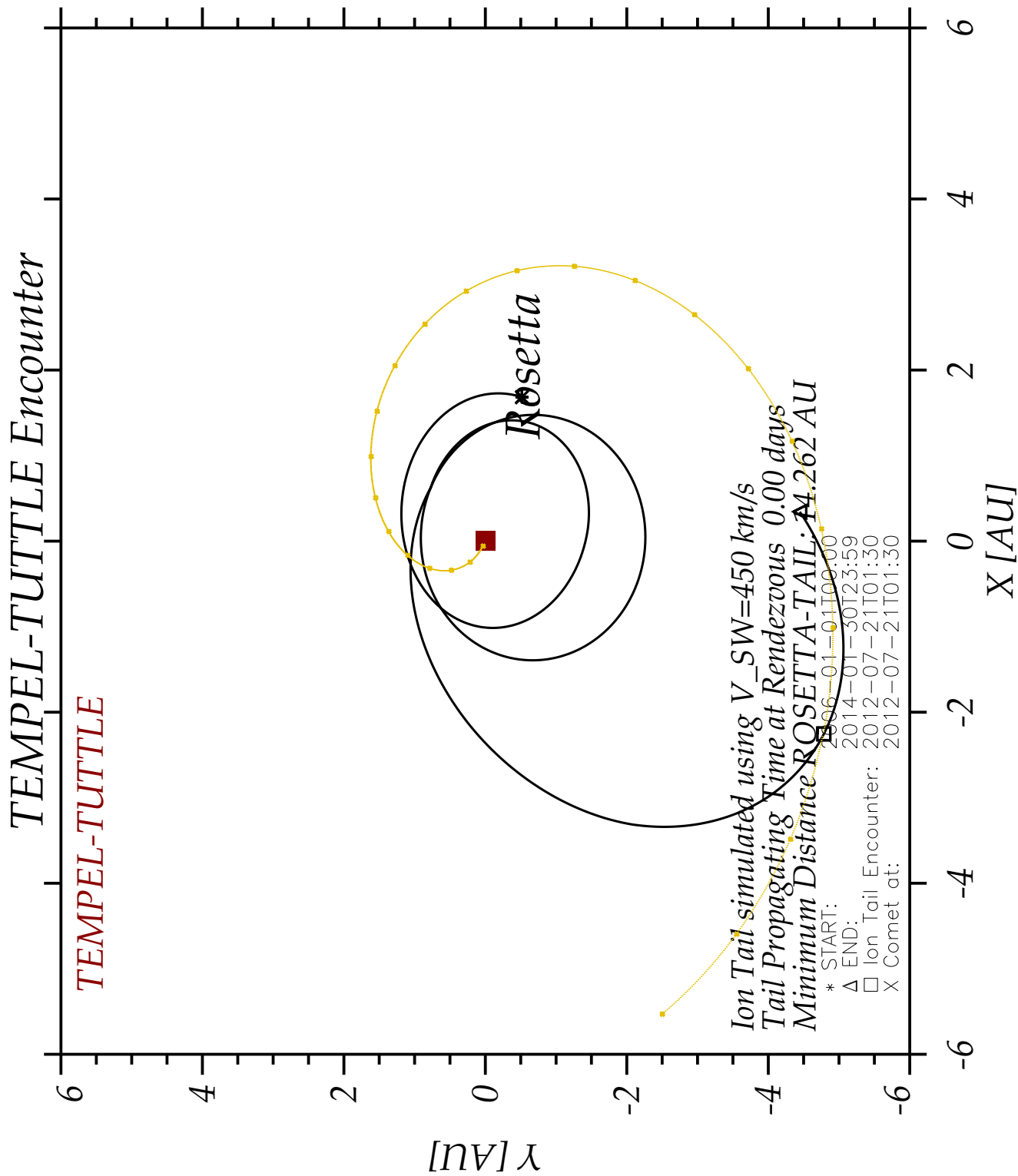


Figure 112: Overview: ROSETTA - TEMPEL-TUTTLE

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59 Comet 56P/SLAUGHTER-BURNHAM

Comet: 56P/SLAUGHTER-BURNHAM
No Encounter below 0.2000AU

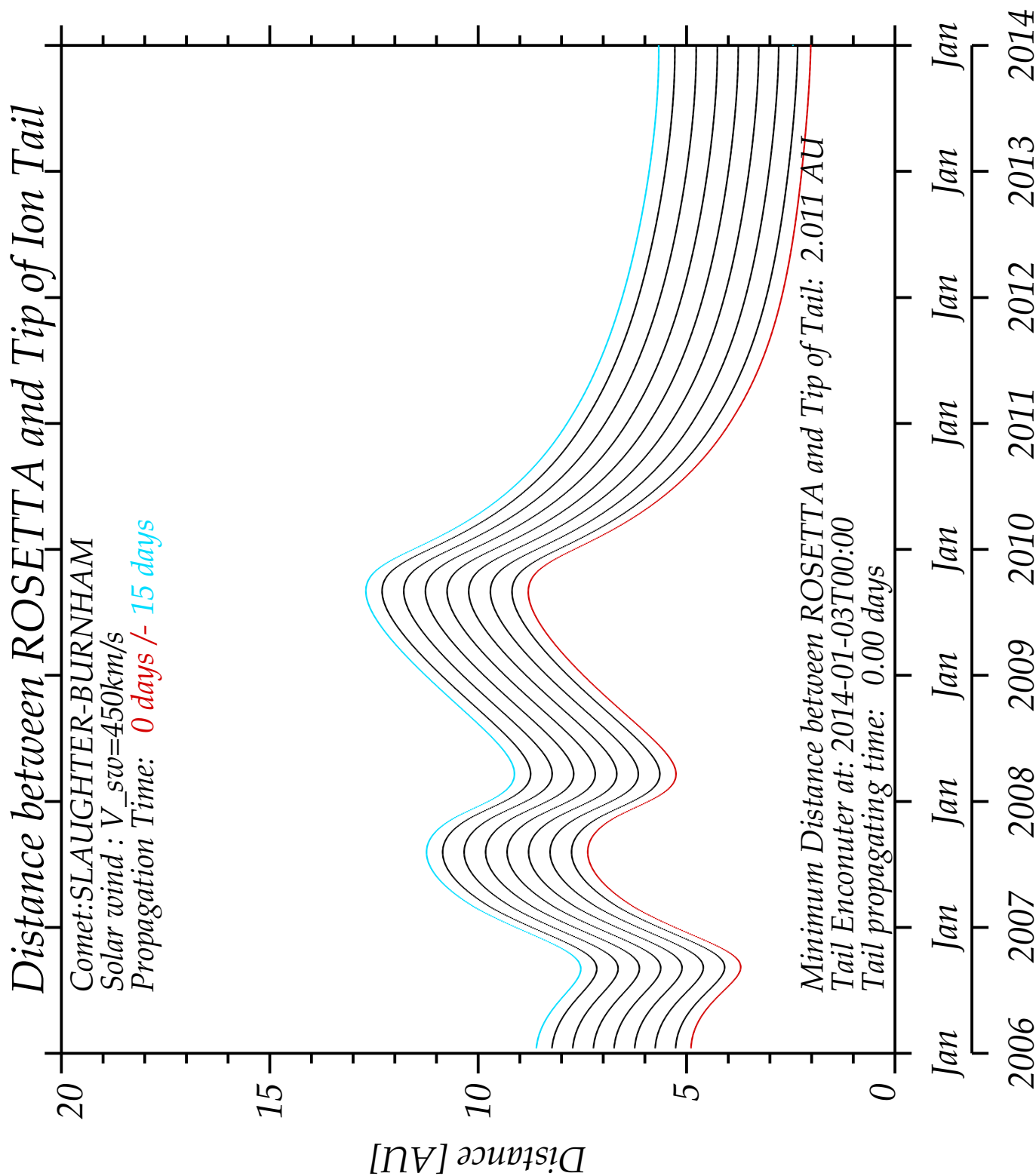


Figure 113: Minimum Distances: ROSETTA - SLAUGHTER-BURNHAM

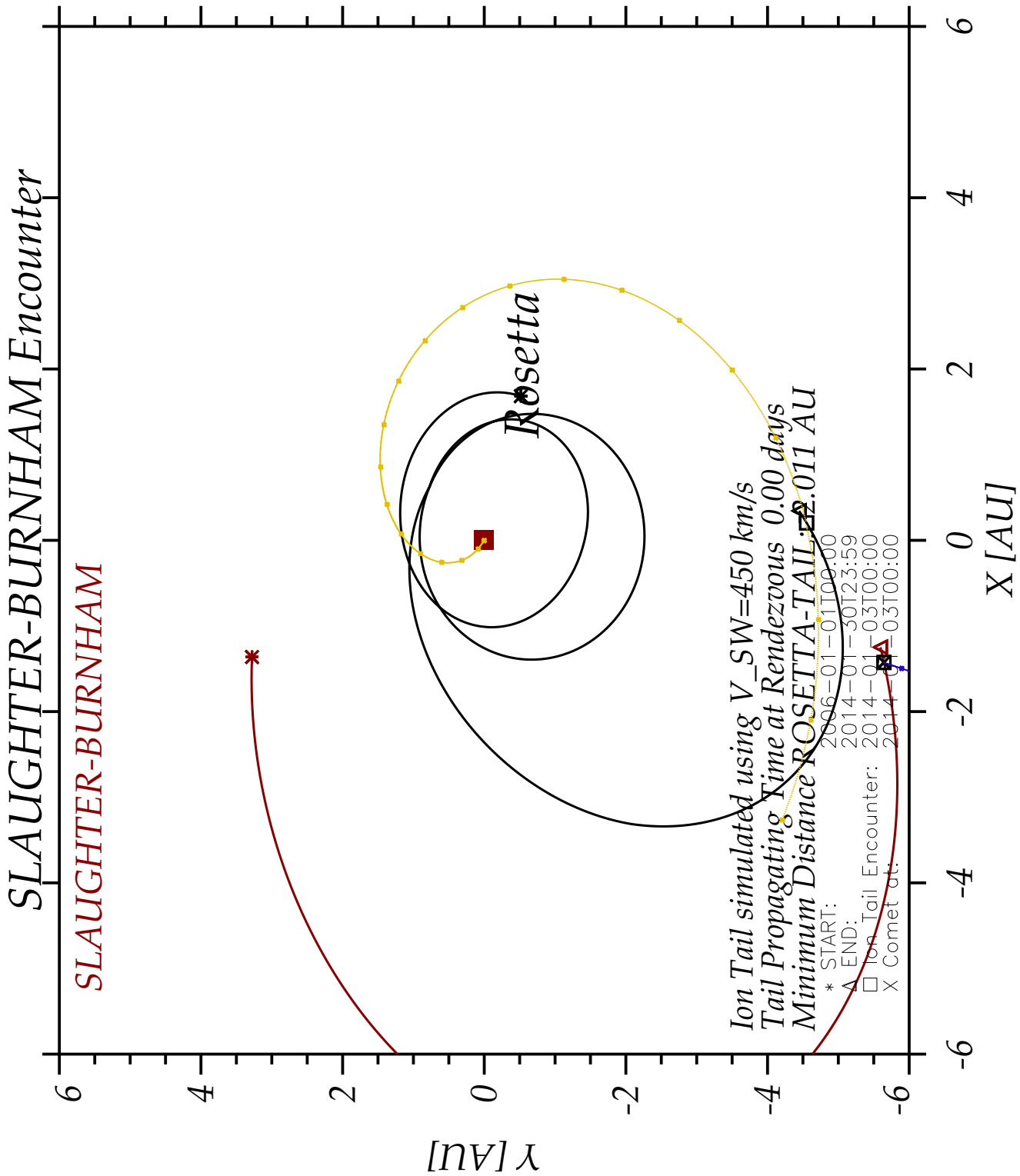


Figure 114: Overview: ROSETTA - SLAUGHTER-BURNHAM

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60 Comet 57P/DUTOIT-NEUJMIN-DELPORTE

Comet:	57P/DUTOIT-NEUJMIN-DELPORTE				
Date of Encounter:	2008-08-20T06:30				
Minimum Distance					
ROSETTA/Ion Tail:	0.1790				AU
Position of ROSETTA	-0.8438	-1.9202	-0.0749	2.0988	AU,[x,y,z],r
Position of COMET:	-0.9047	-1.8671	0.0849	2.0765	AU,[x,y,z],r
Velocity of ROSETTA	12.72	-11.09	-2.28	17.03	km/s,[vx,vy,vz],v
Velocity of COMET:	24.34	-2.86	0.33	24.51	km/s,[vx,vy,vz],v
Tail Intersection Angle:	78.1				deg
Velocity of ROSETTA					
normal to Tail:	16.66				km/s
Progagting Time					
of Tail	0.040				days

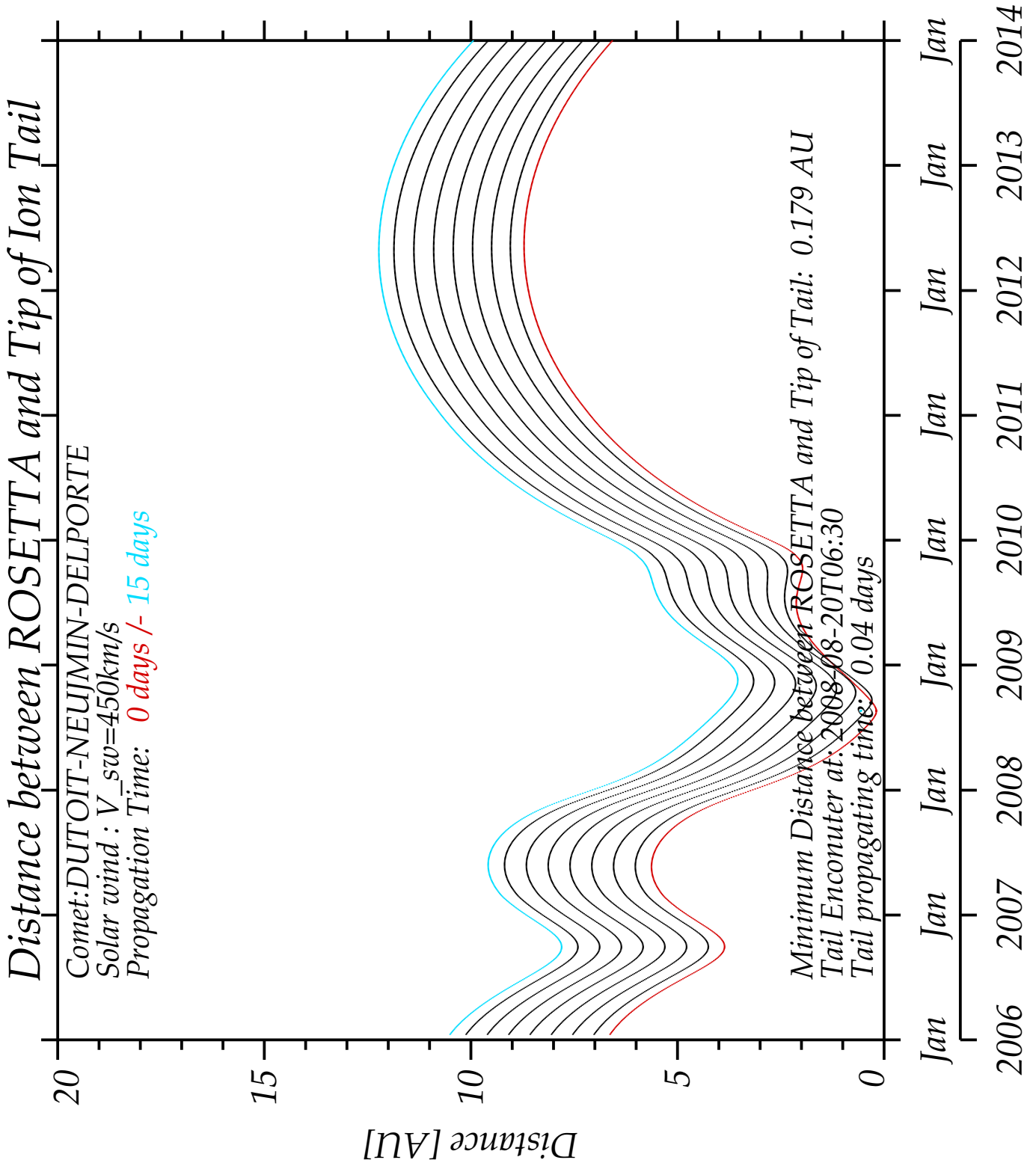


Figure 115: Minimum Distances: ROSETTA - DUTOIT-NEUJMIN-DELPORTE

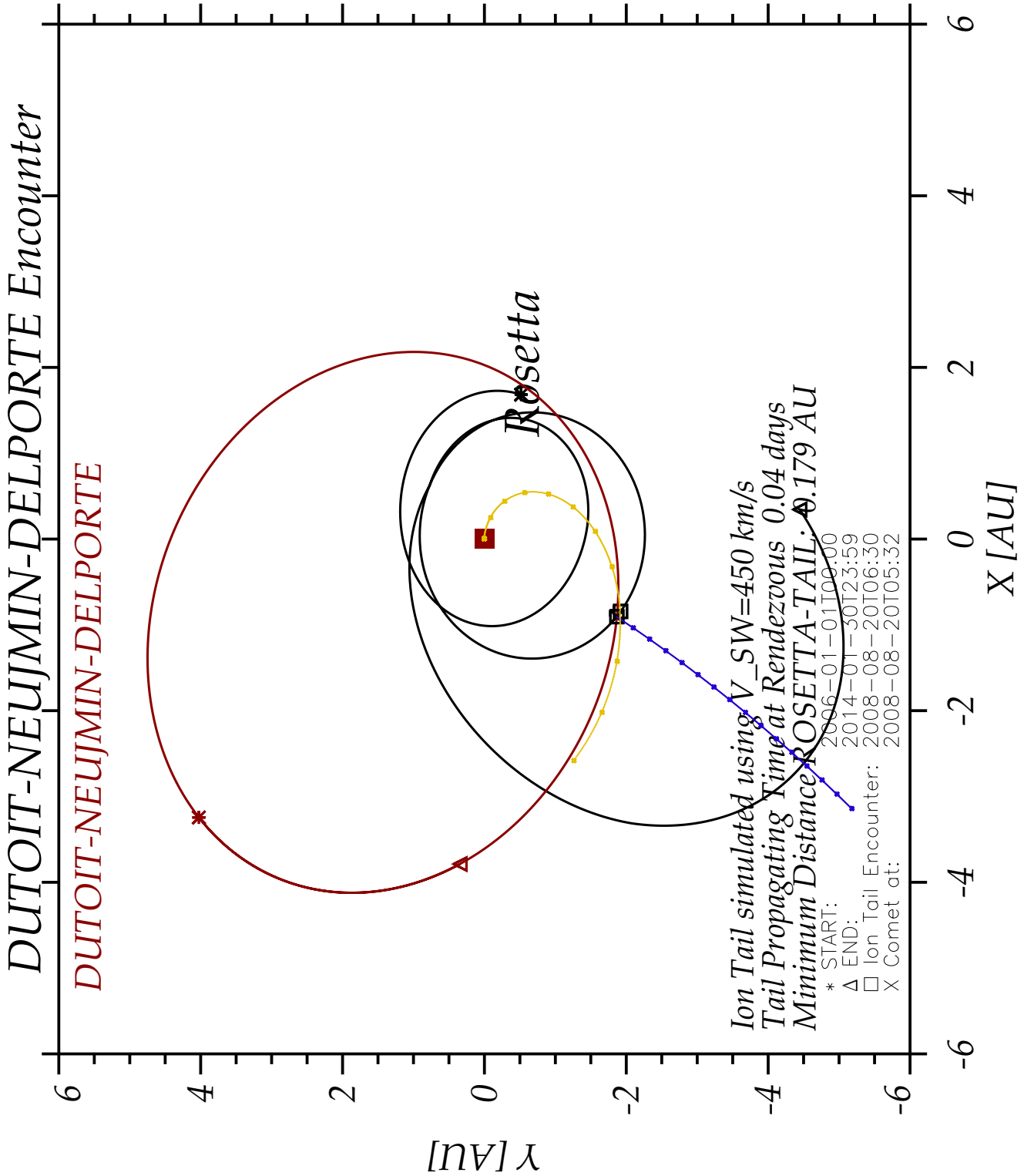


Figure 116: Overview: ROSETTA - DUTOIT-NEUJMIN-DELPORTE

<h1 style="margin: 0;">ROSETTA</h1>	Document: RO-IGEP-TR-0020 Issue: 1 Revision: 2
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61 Comet 57P-A/DUTOIT-NEUJMIN-DELPORTE-A

Comet:	57P-A/DUTOIT-NEUJMIN-DELPORTE-A				
Date of Encounter:	2008-08-20T06:00				
Minimum Distance					
ROSETTA/Ion Tail:	0.1790				AU
Position of ROSETTA	-0.8440	-1.9201	-0.0749	2.0987	AU,[x,y,z],r
Position of COMET:	-0.9049	-1.8670	0.0849	2.0764	AU,[x,y,z],r
Velocity of ROSETTA	12.72	-11.09	-2.28	17.03	km/s,[vx,vy,vz],v
Velocity of COMET:	24.34	-2.86	0.33	24.51	km/s,[vx,vy,vz],v
Tail Intersection Angle:	78.1				deg
Velocity of ROSETTA					
normal to Tail:	16.66				km/s
Proagating Time					
of Tail	0.040				days

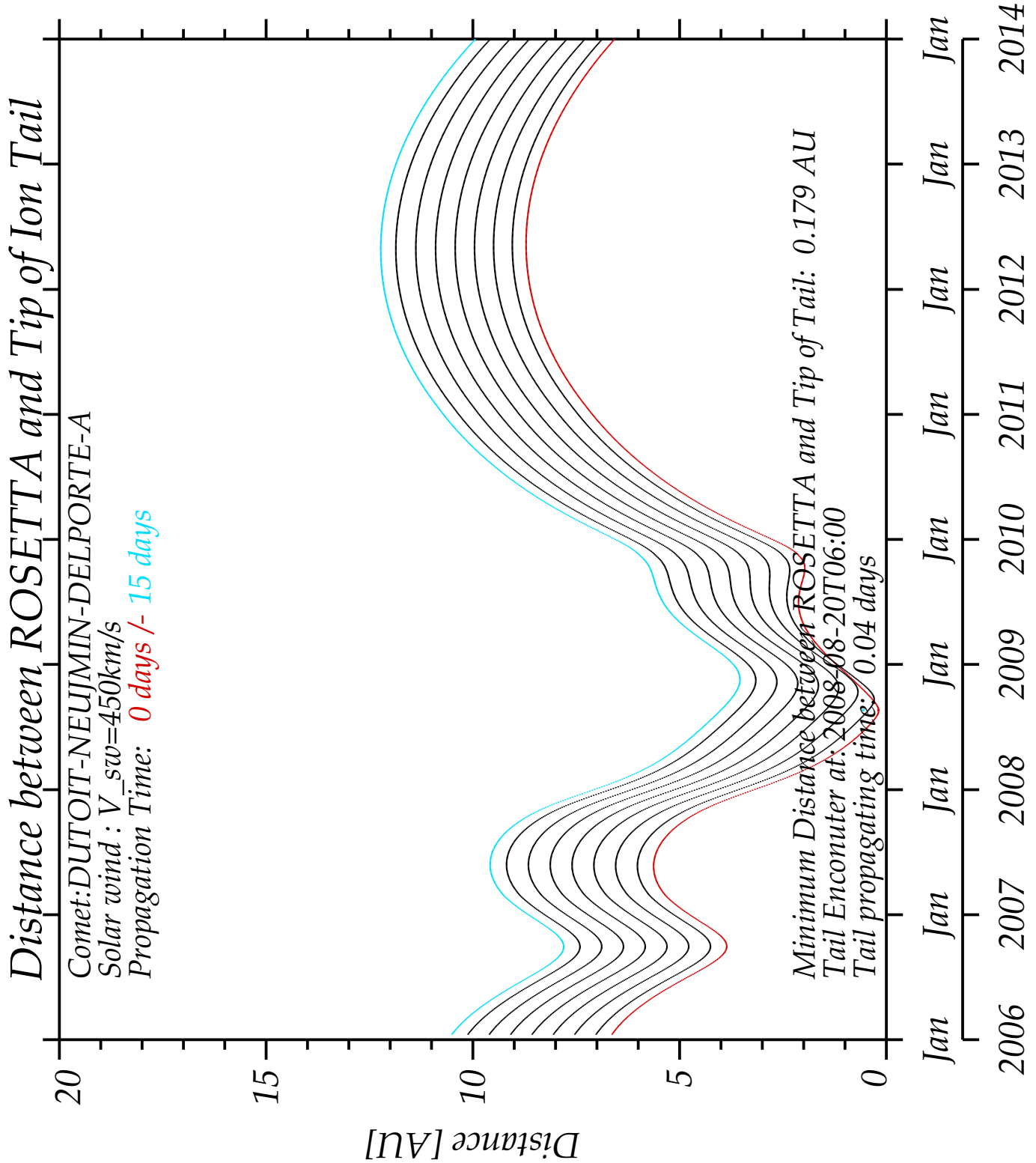


Figure 117: Minimum Distances: ROSETTA - DUTOIT-NEUJMIN-DELPORTE-A

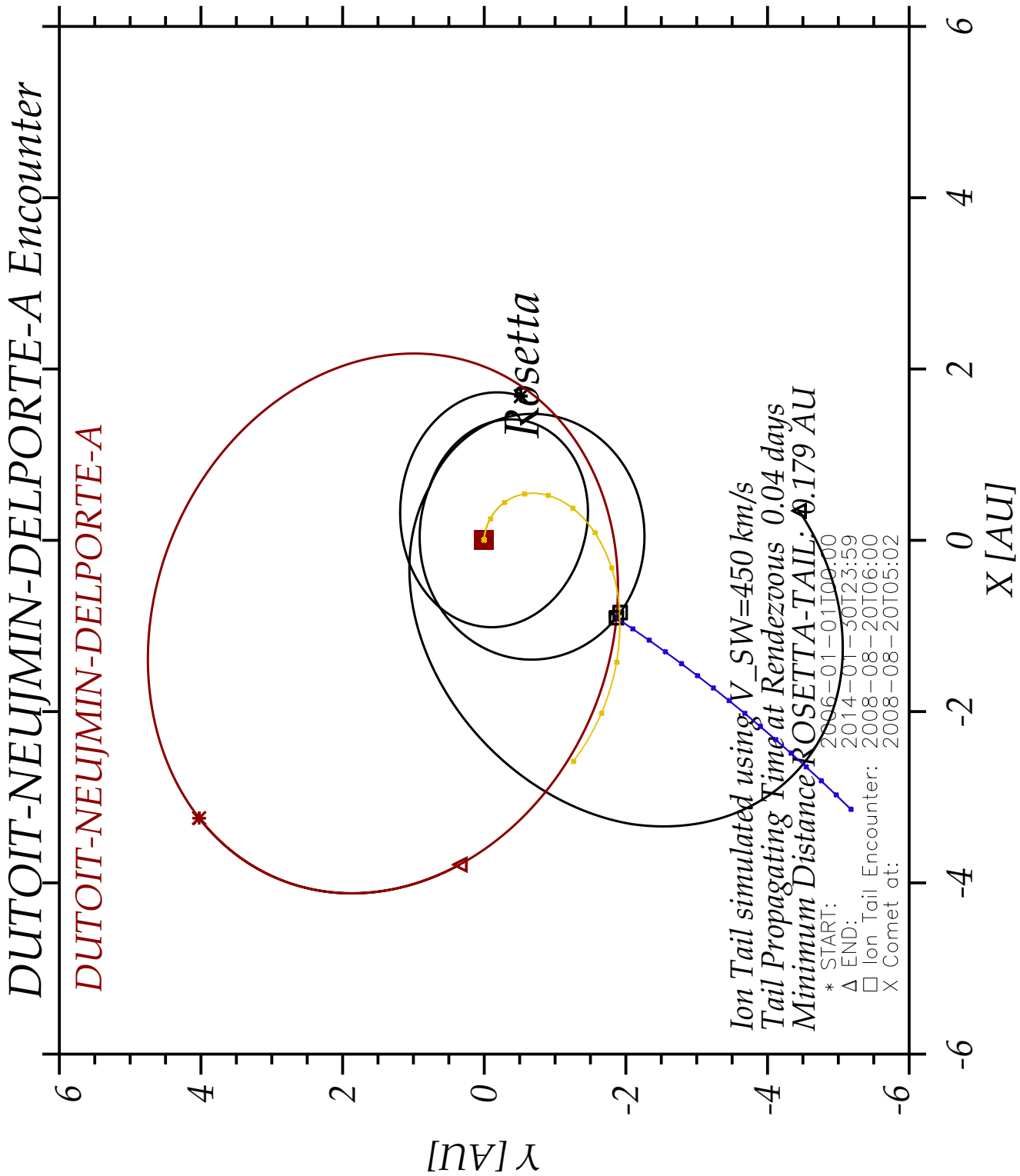


Figure 118: Overview: ROSETTA - DUTOIT-NEUJMIN-DELPORTE-A

<p style="text-align: center;">R O S E T T A</p>	<p>Document: RO-IGEP-TR-0020 Issue: 1 Revision: 2</p>
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62 Comet 58P/JACKSON-NEUJMIN

<p>Comet: 58P/JACKSON-NEUJMIN</p>
<p>No Encounter below 0.2000AU</p>

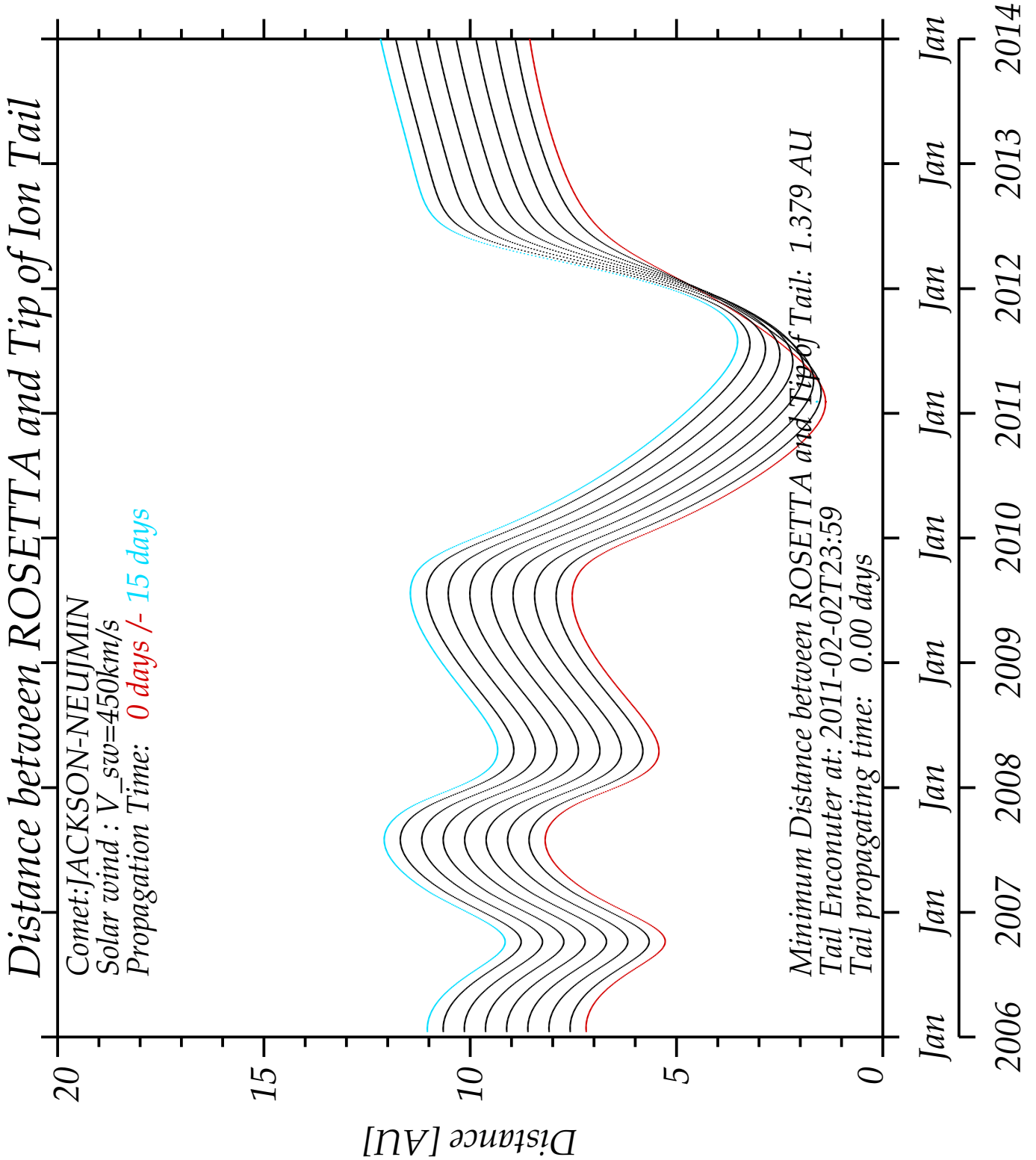


Figure 119: Minimum Distances: ROSETTA - JACKSON-NEUJMIN

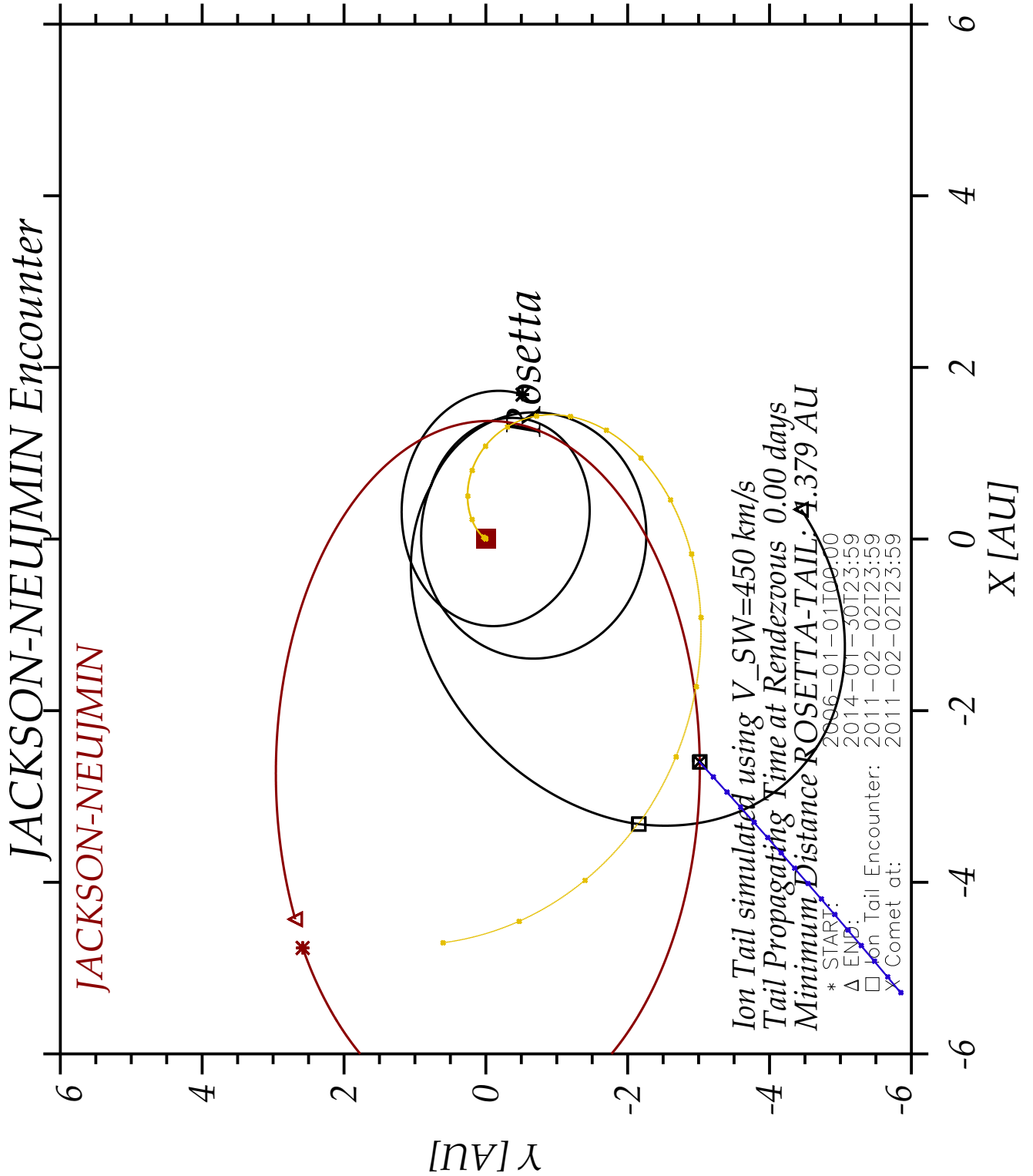


Figure 120: Overview: ROSETTA - JACKSON-NEUJMIN

<p style="text-align: center;">R O S E T T A</p>	<p>Document: RO-IGEP-TR-0020 Issue: 1 Revision: 2 Date: 2006-10-25 Page: 182</p>
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63 Comet 59P/KEARNS-KWEE

<p>Comet: 59P/KEARNS-KWEE</p>
<p>No Encounter below 0.2000AU</p>

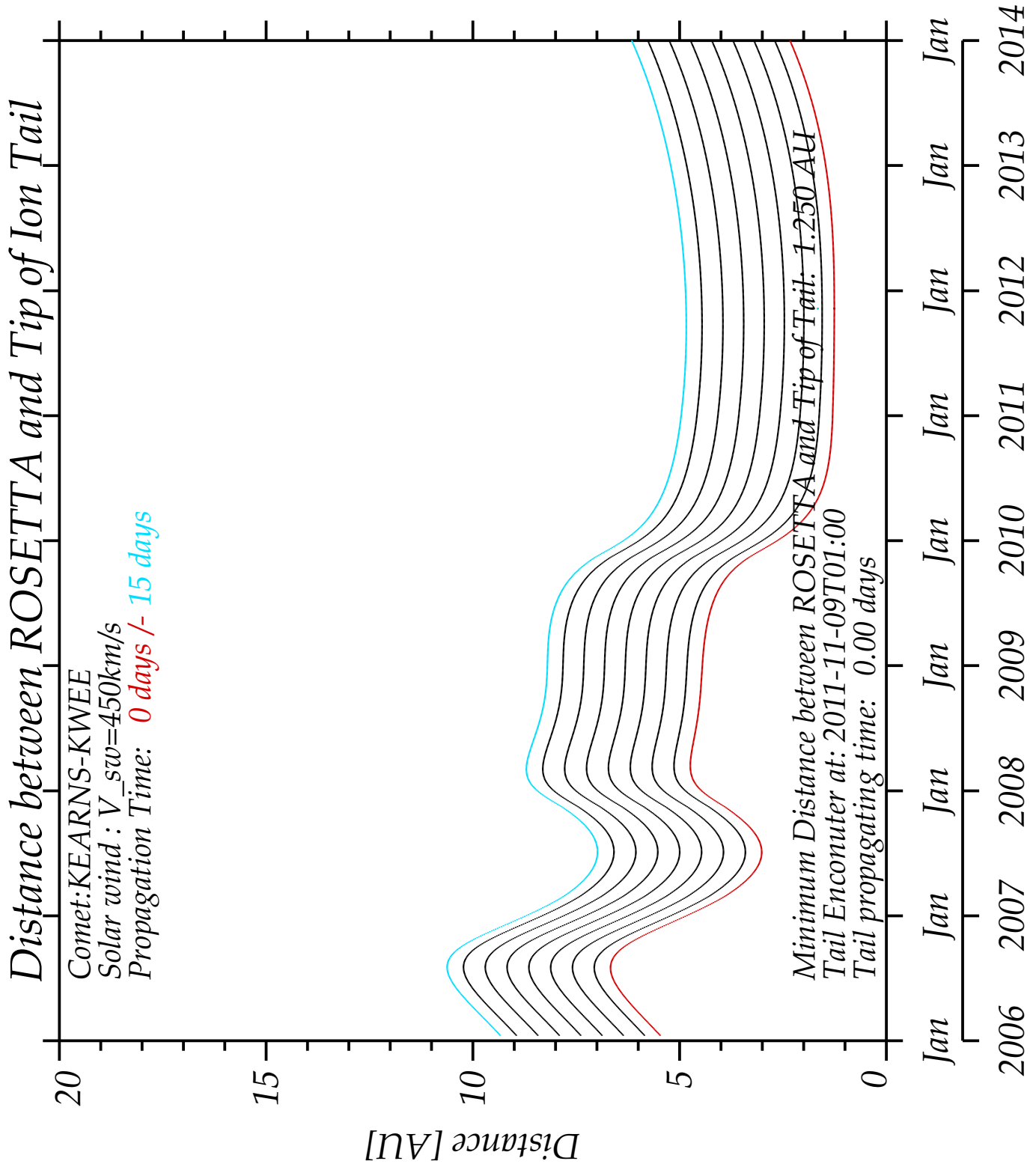


Figure 121: Minimum Distances: ROSETTA - KEARNS-KWEE

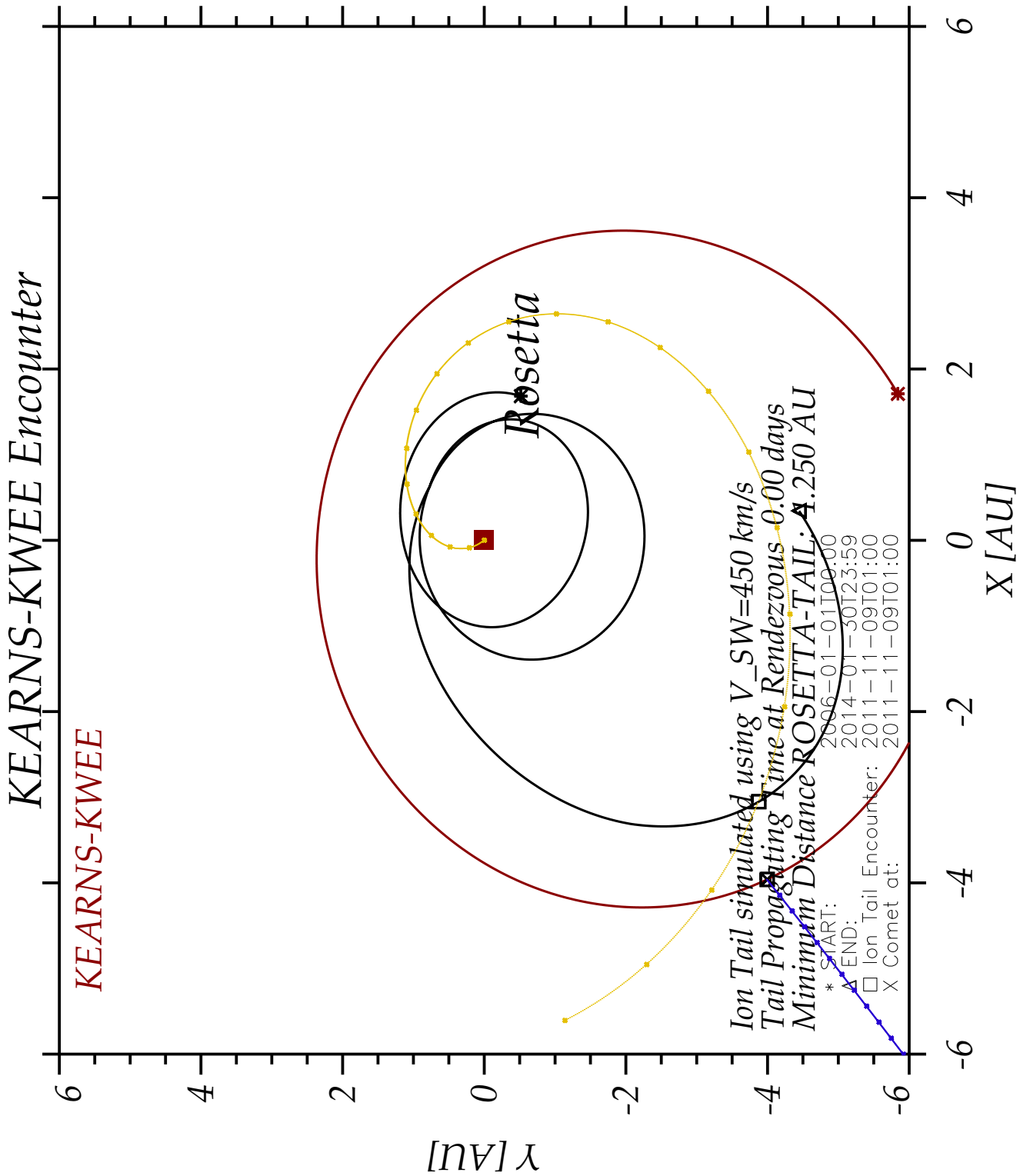


Figure 122: Overview: ROSETTA - KEARNS-KWEE

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64 Comet 60P/Tsuchinshan 2

Comet: 60P/Tsuchinshan 2
No Encounter below 0.2000AU

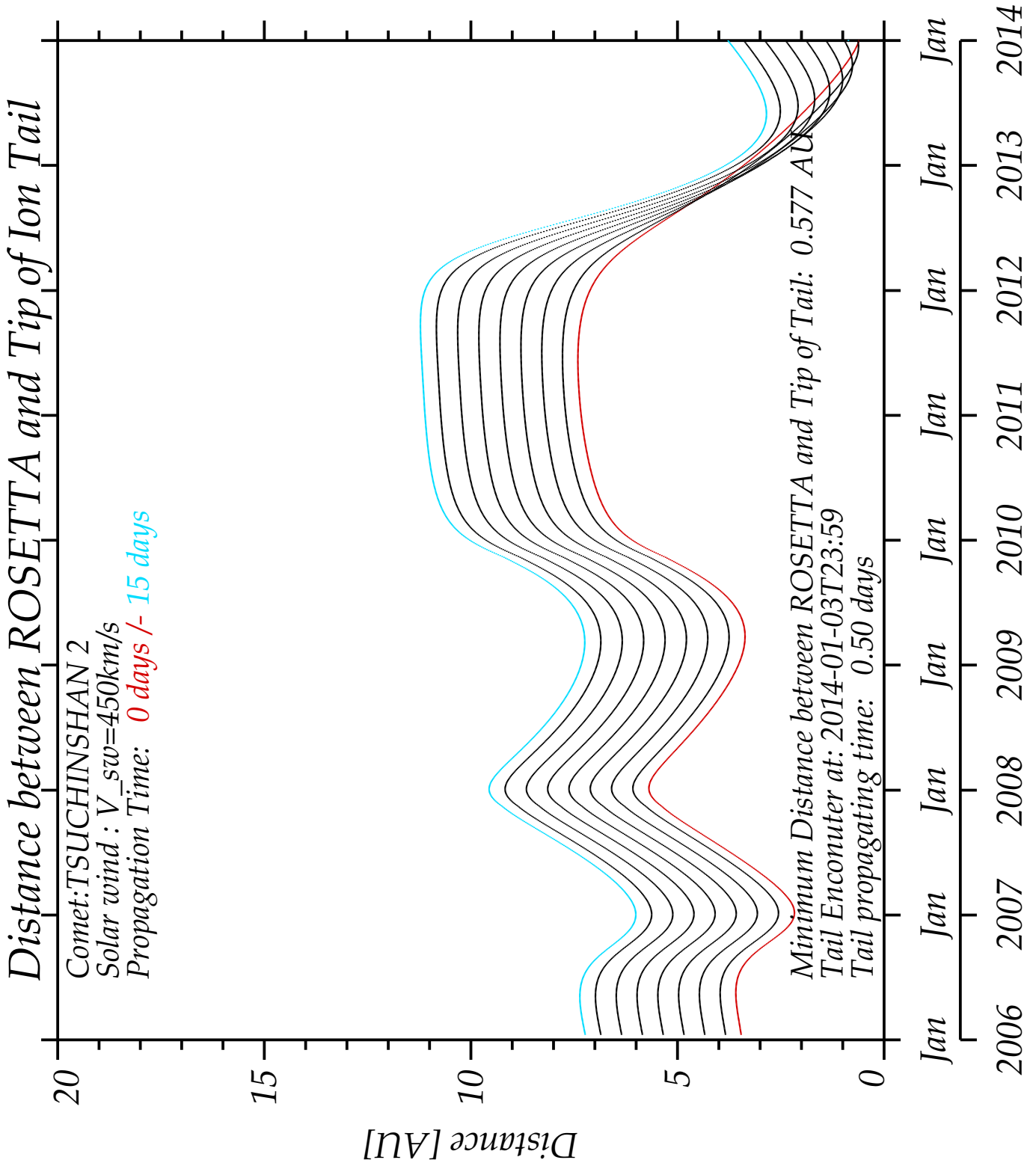


Figure 123: Minimum Distances: ROSETTA - TSUCHINSHAN 2

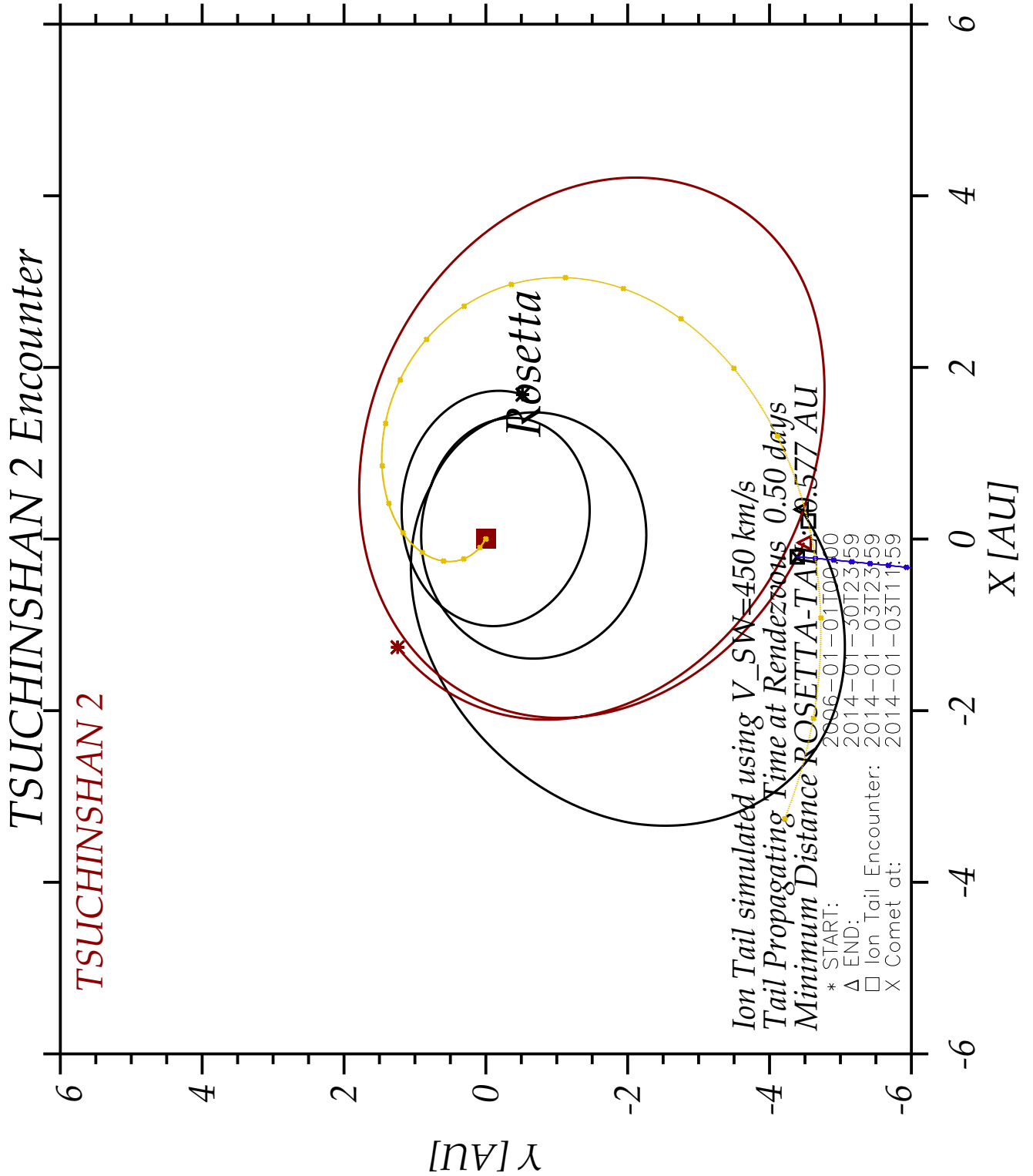


Figure 124: Overview: ROSETTA - TSUCHINSHAN 2

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65 Comet 61P/SHAJN-SCHALDACH

Comet: 61P/SHAJN-SCHALDACH
No Encounter below 0.2000AU

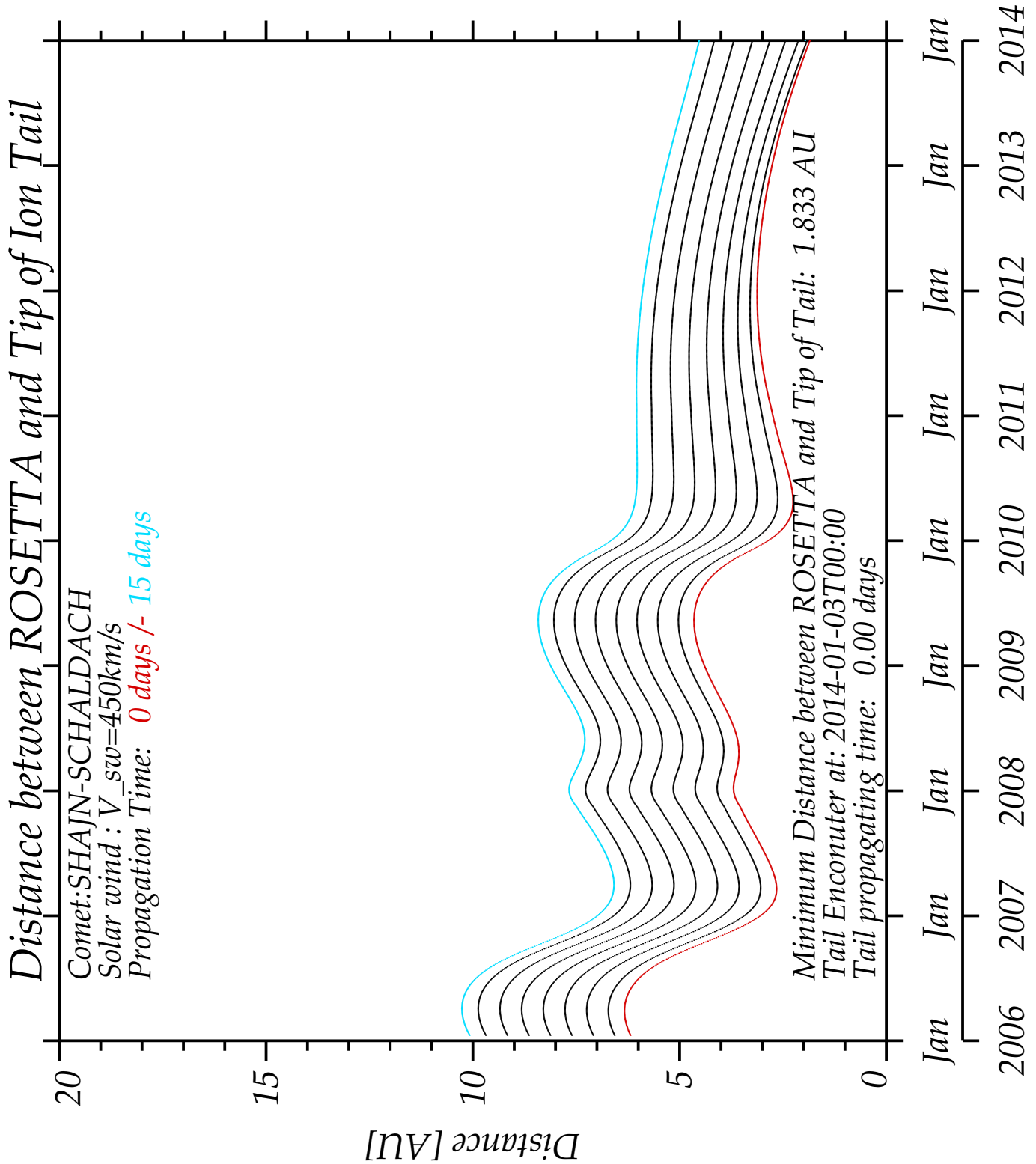


Figure 125: Minimum Distances: ROSETTA - SHAJN-SCHALDACH

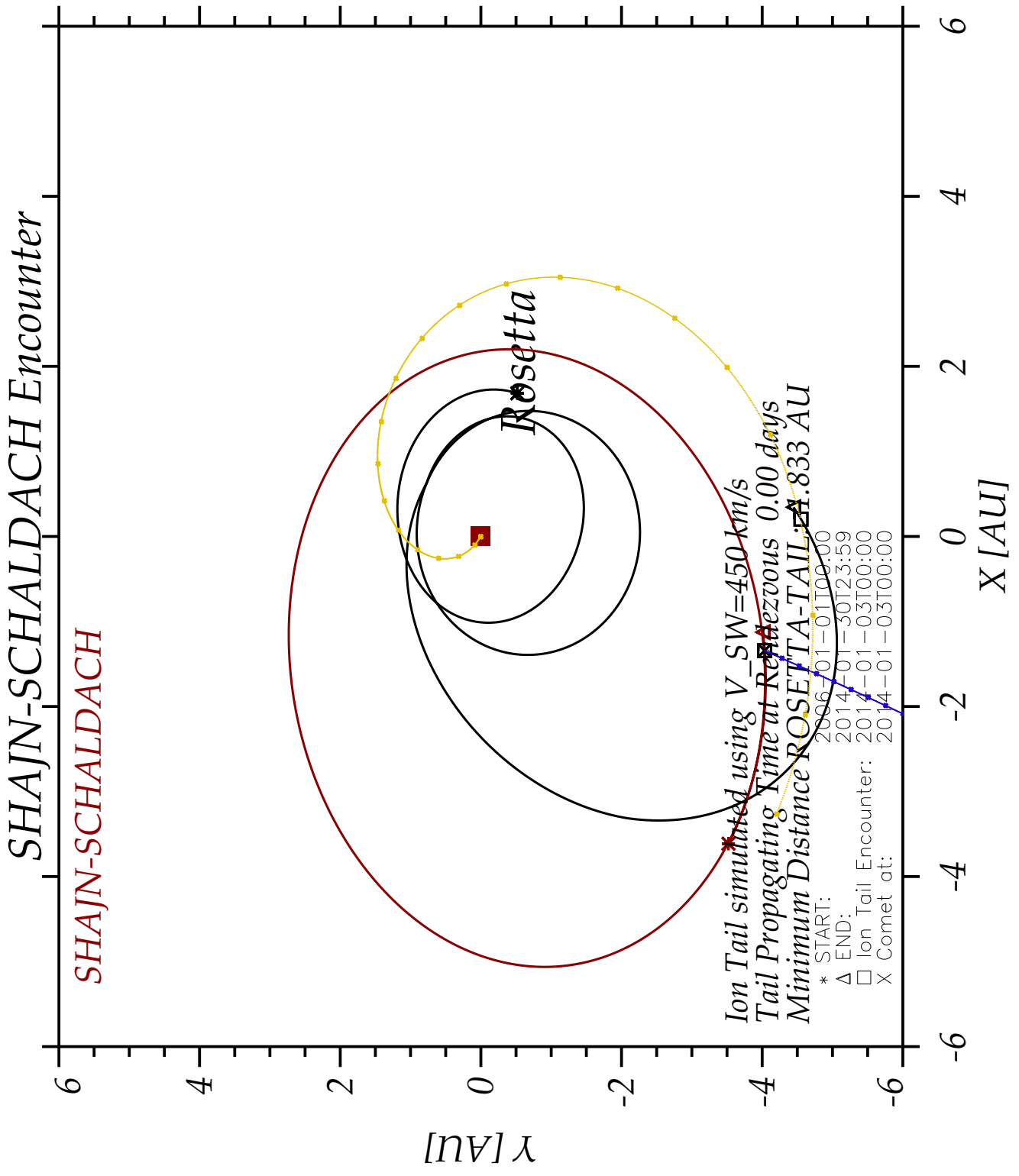


Figure 126: Overview: ROSETTA - SHAJN-SCHALDACH

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66 Comet 62P/Tsuchinshan 1

Comet: 62P/Tsuchinshan 1
No Encounter below 0.2000AU

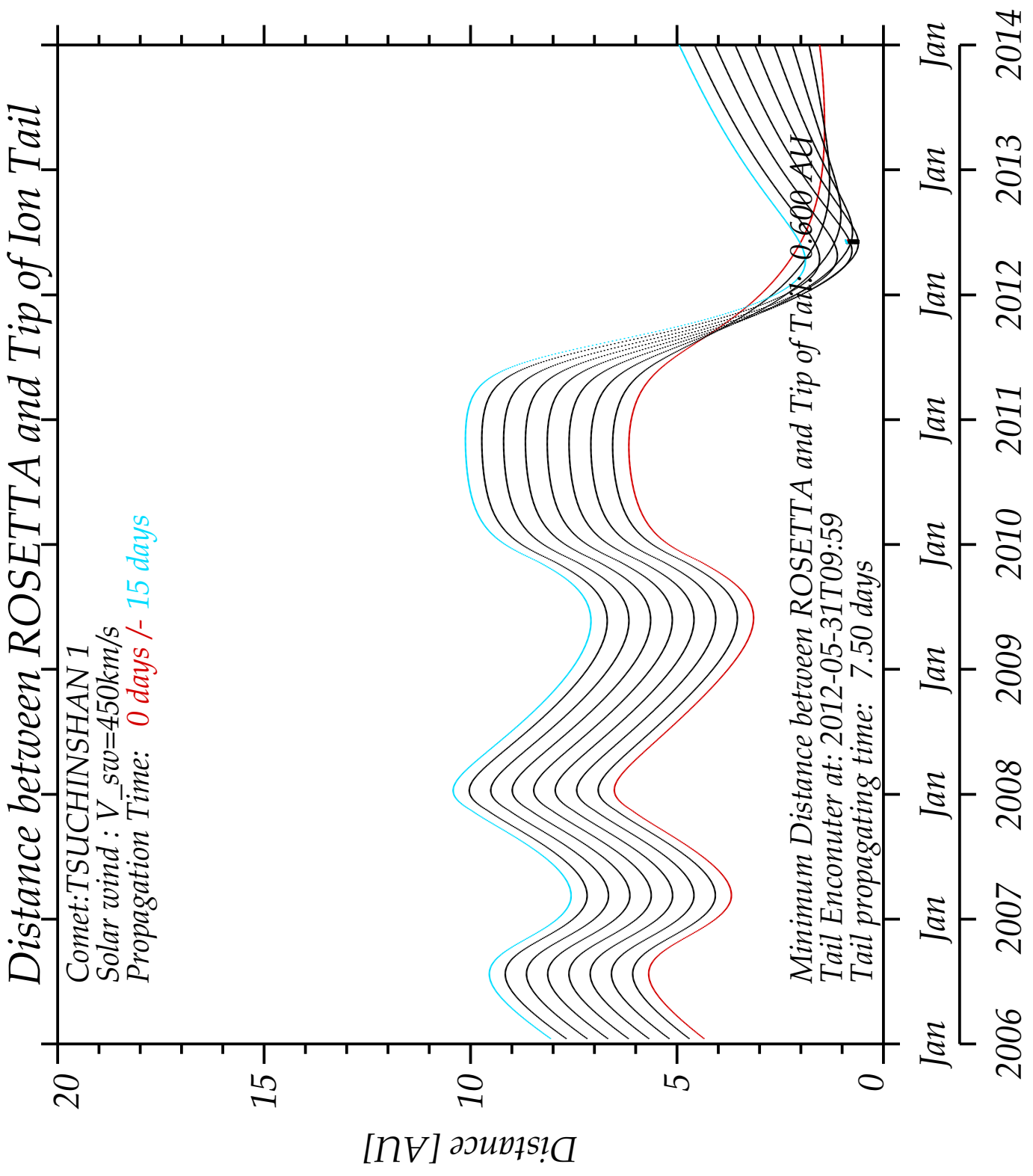


Figure 127: Minimum Distances: ROSETTA - TSUCHINSHAN 1

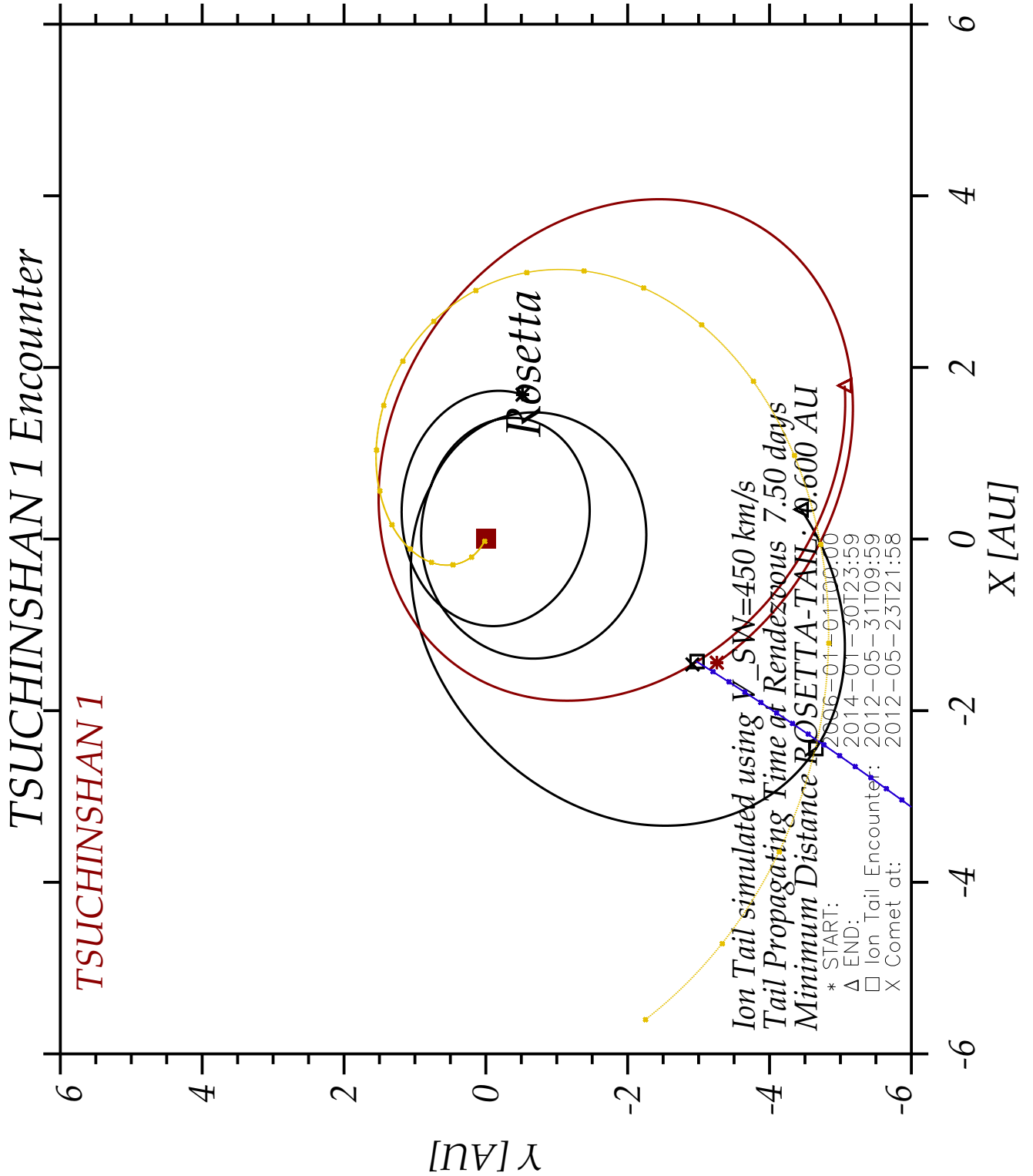


Figure 128: Overview: ROSETTA - TSUCHINSHAN 1

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67 Comet 63P/WILD 1

Comet: 63P/WILD 1
No Encounter below 0.2000AU

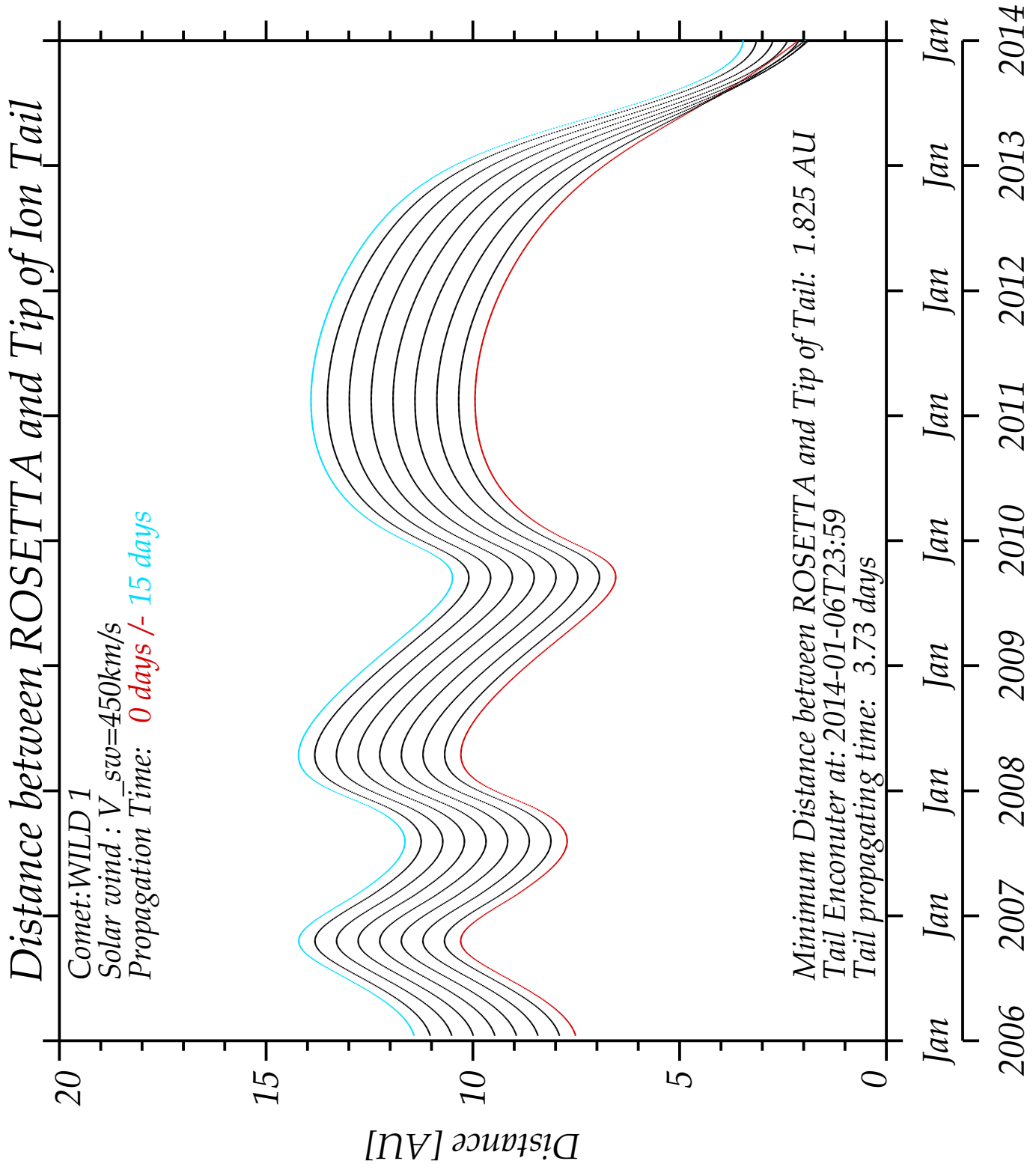


Figure 129: Minimum Distances: ROSETTA - WILD 1

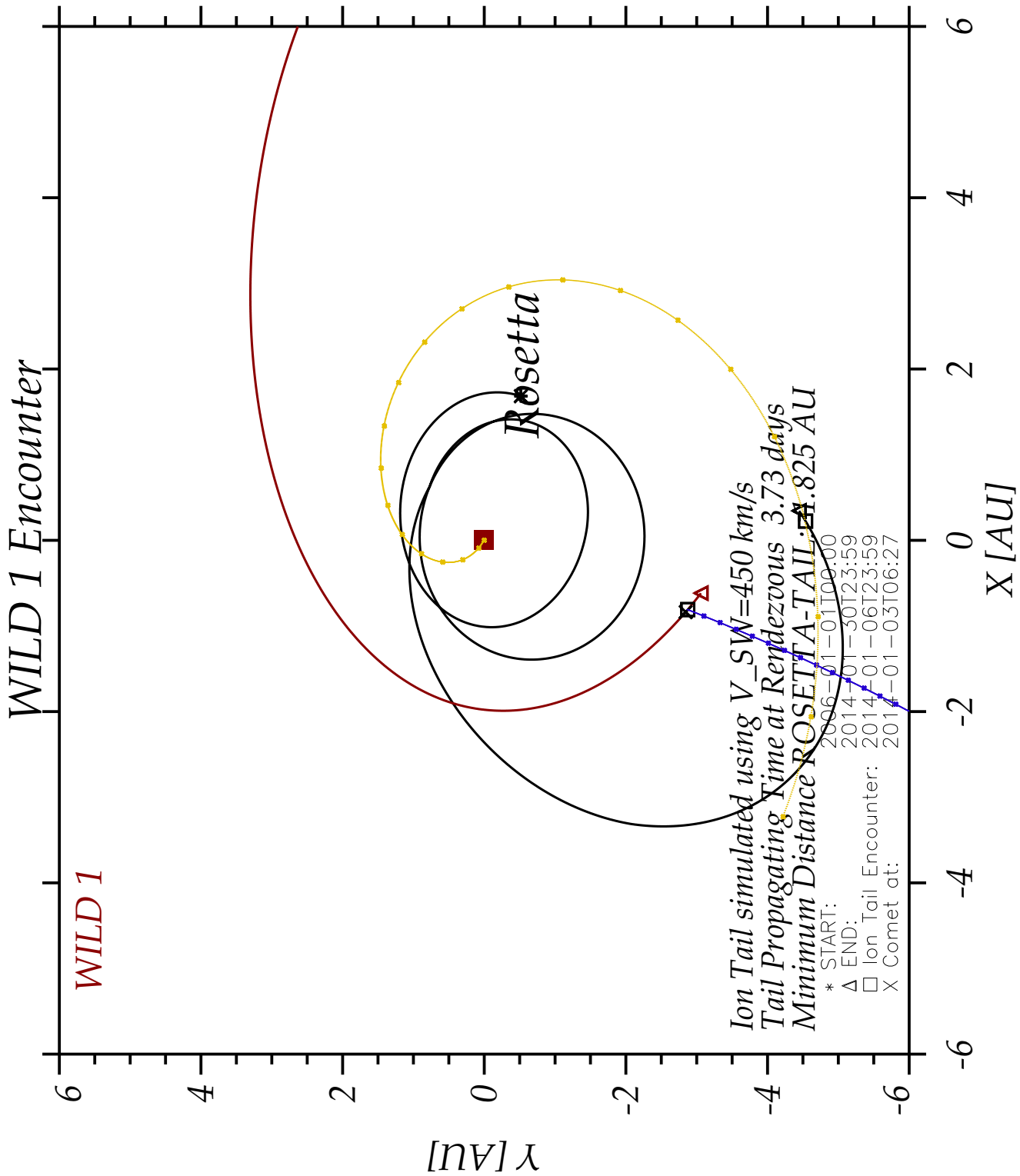


Figure 130: Overview: ROSETTA - WILD 1

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68 Comet 64P/SWIFT-GEHRELS

Comet: 64P/SWIFT-GEHRELS
No Encounter below 0.2000AU

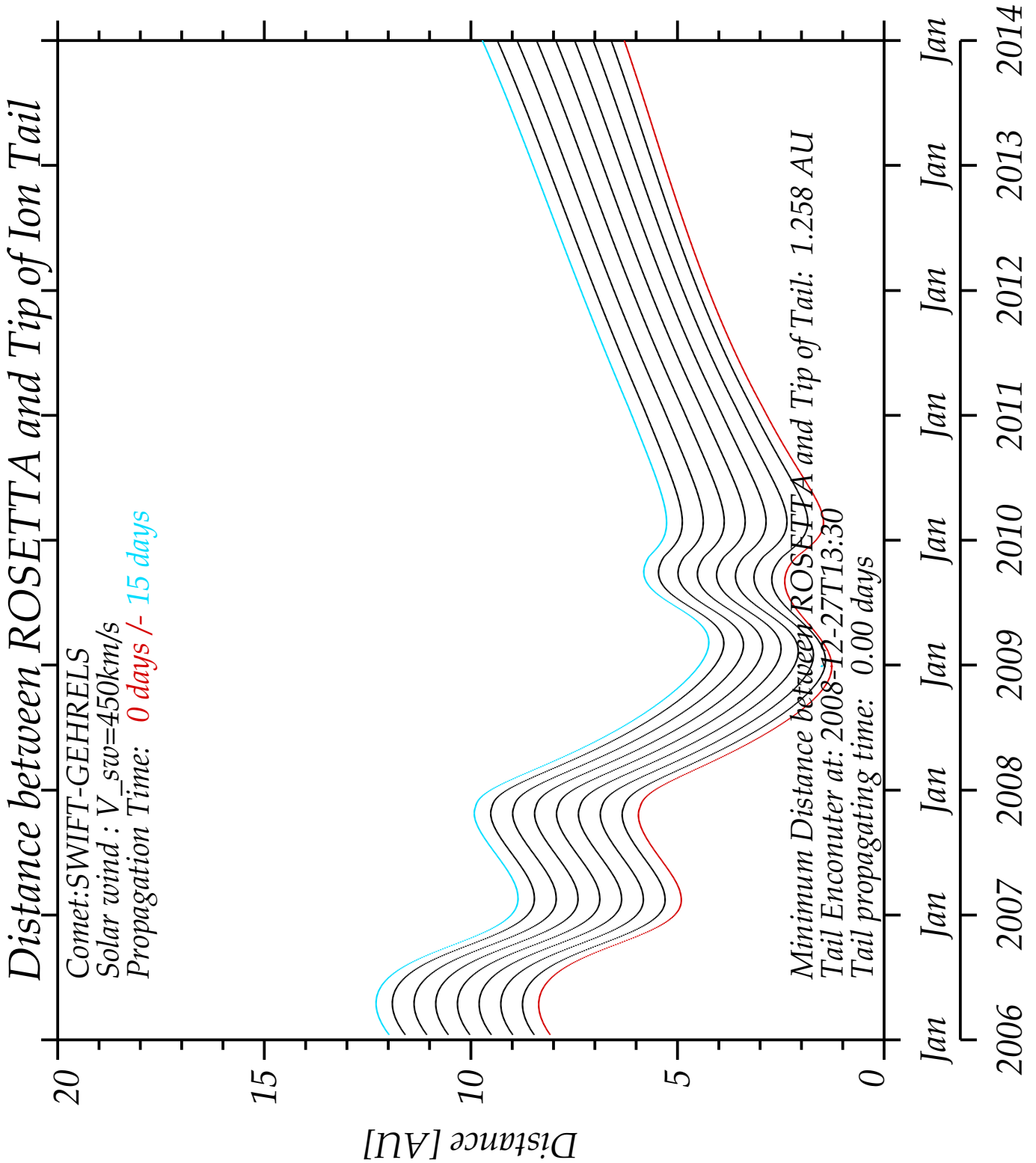


Figure 131: Minimum Distances: ROSETTA - SWIFT-GEHRELS

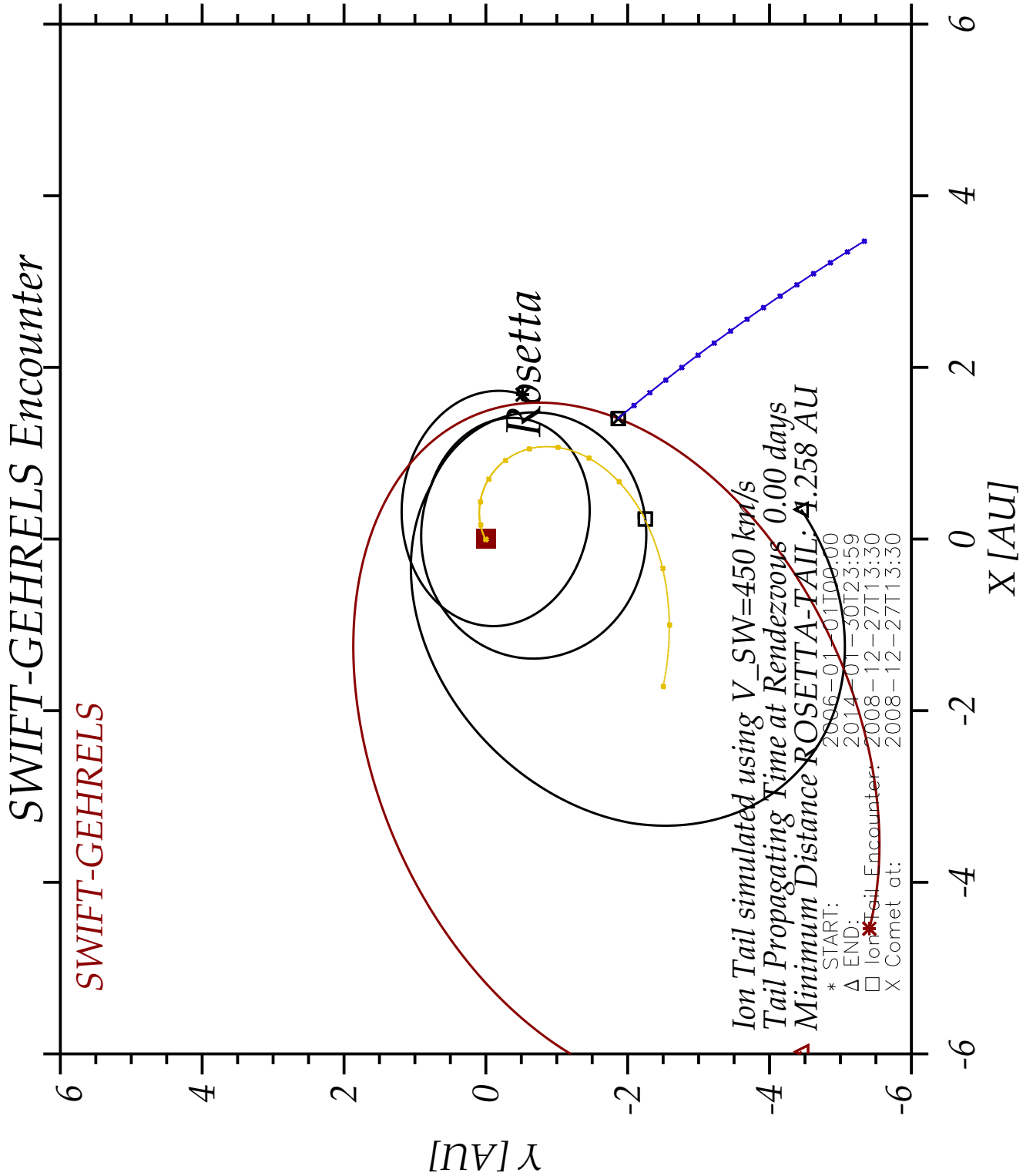


Figure 132: Overview: ROSETTA - SWIFT-GEHRELS

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69 Comet 65P/GUNN

Comet: 65P/GUNN
No Encounter below 0.2000AU

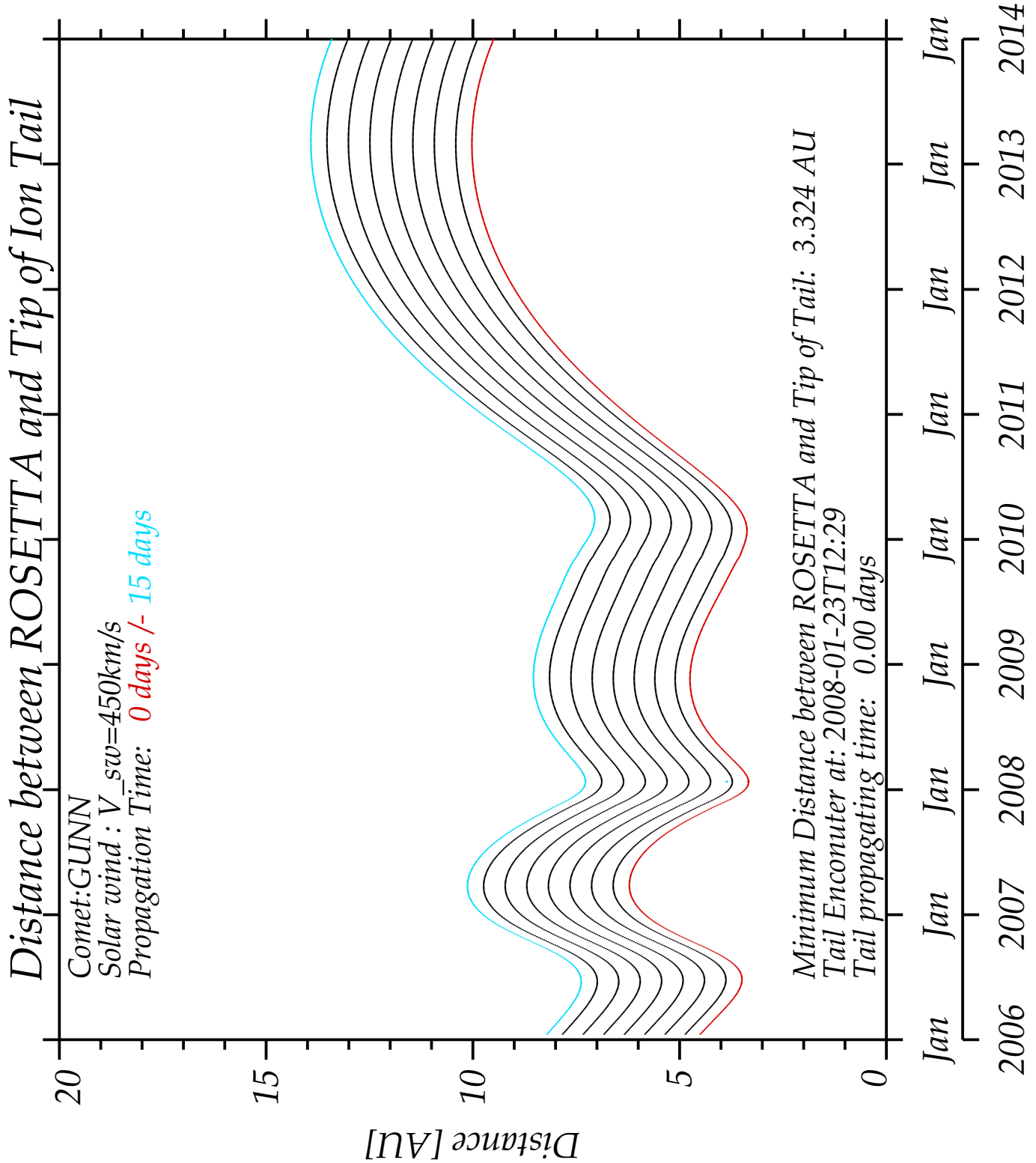


Figure 133: Minimum Distances: ROSETTA - GUNN

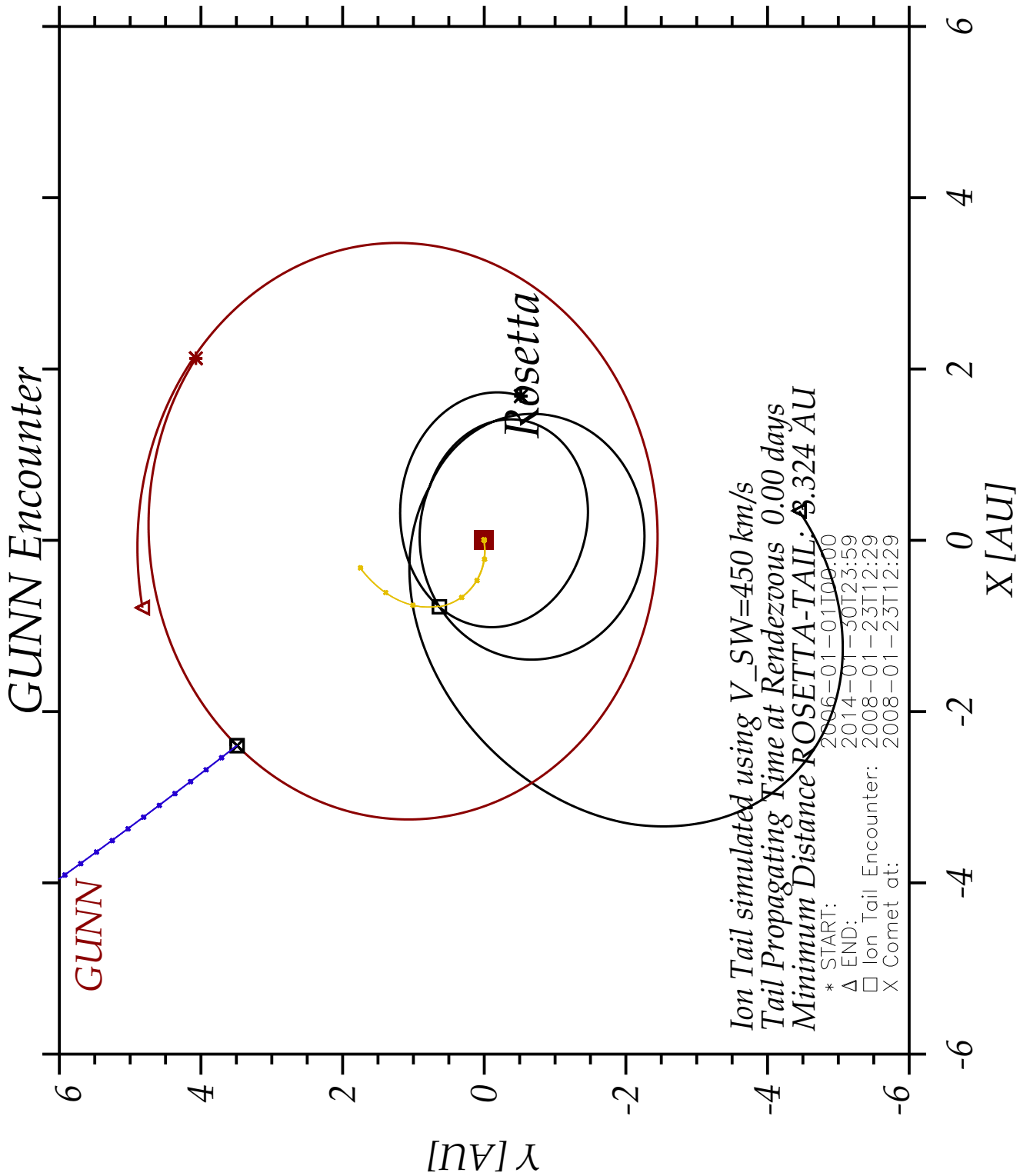


Figure 134: Overview: ROSETTA - GUNN

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70 Comet 66P/DU TOIT 1

Comet: 66P/DU TOIT 1
No Encounter below 0.2000AU

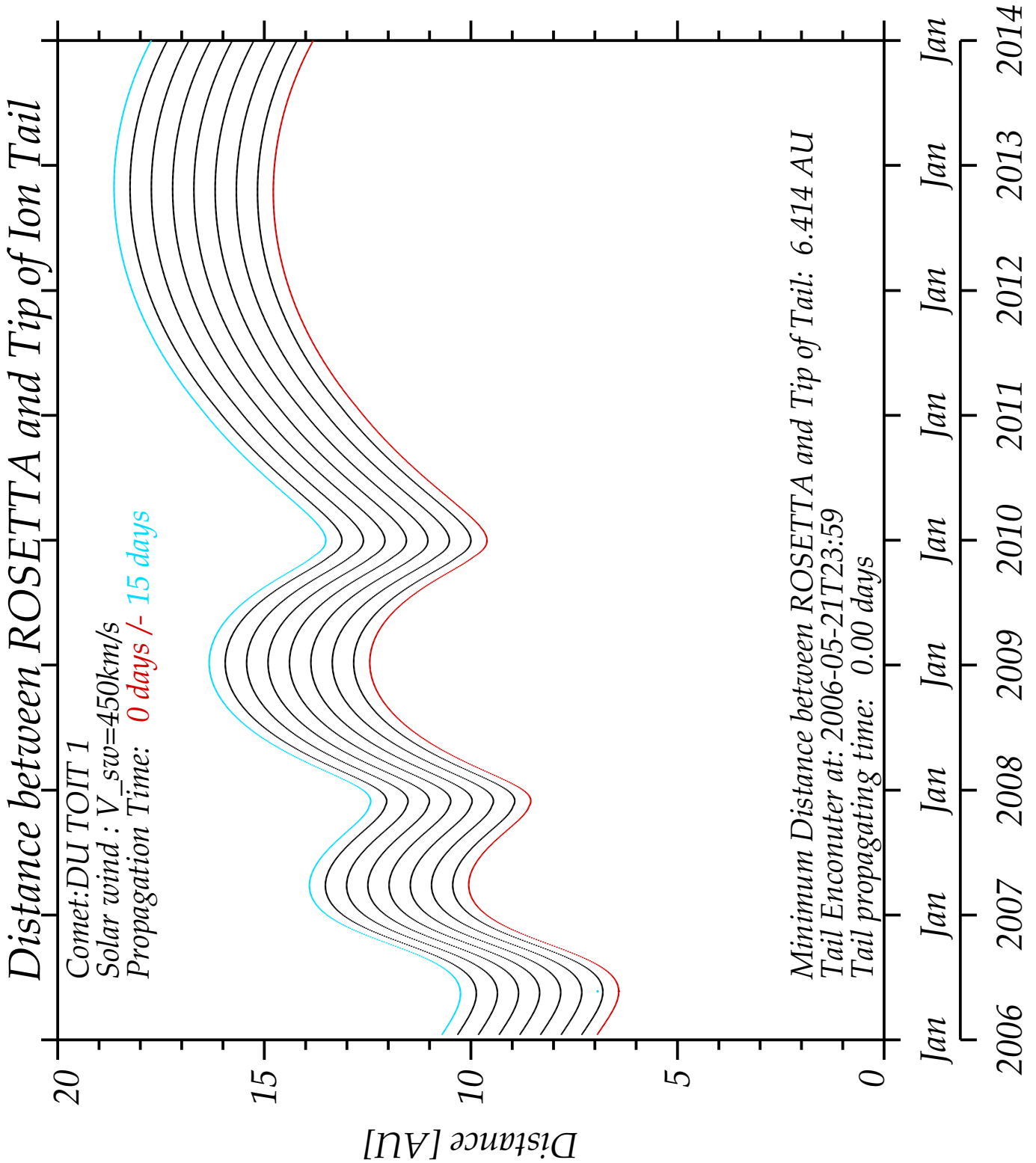


Figure 135: Minimum Distances: ROSETTA - DU TOIT 1

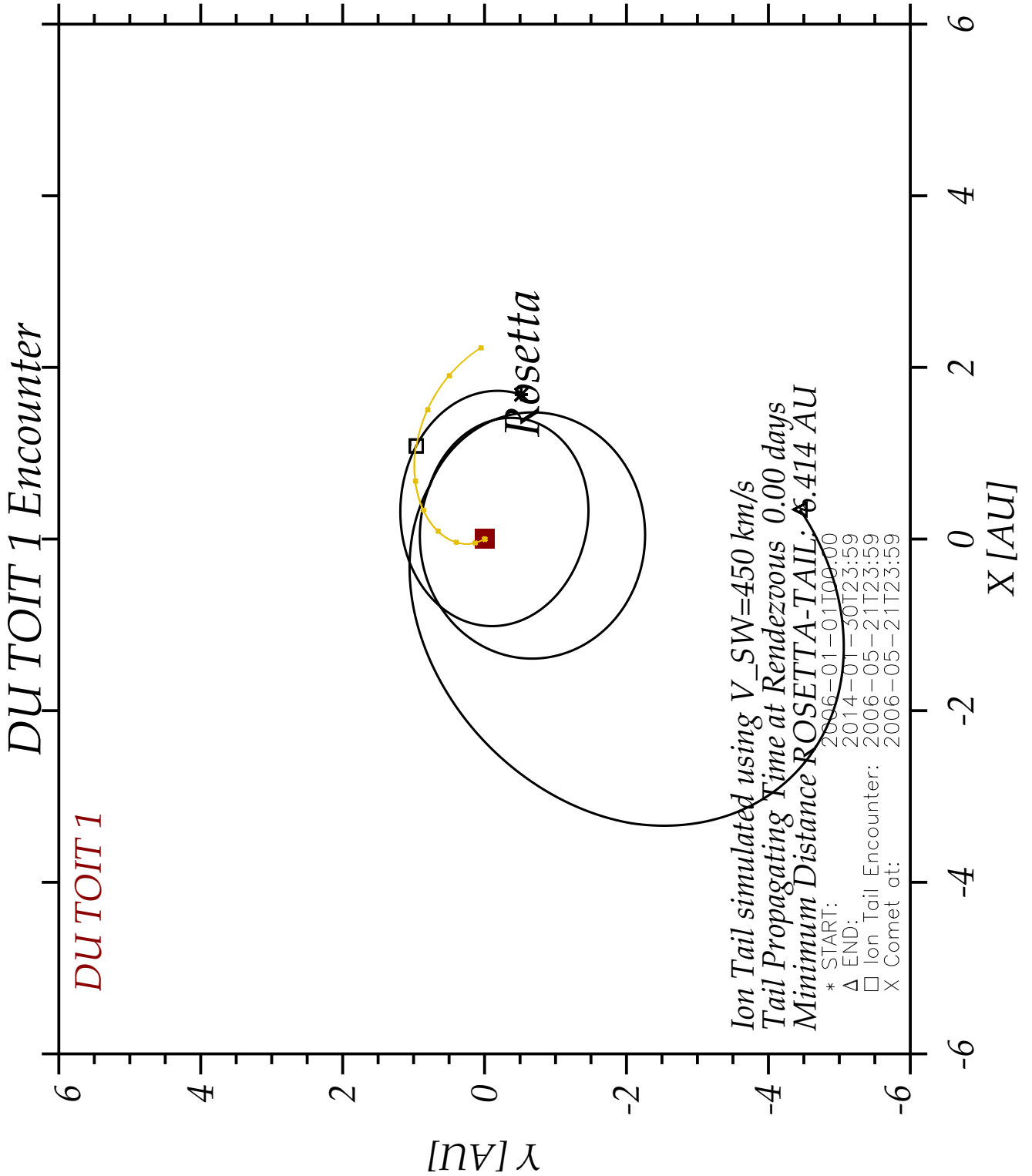


Figure 136: Overview: ROSETTA - DU TOIT 1

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71 Comet 67P/CHURYUMOV-GERASIMENKO

Comet:	67P/CHURYUMOV-GERASIMENKO				
Date of Encounter:	2014-01-03T00:00				
Minimum Distance					
ROSETTA/Ion Tail:	0.0650				AU
Position of ROSETTA	0.2036	-4.5519	-0.3914	4.5732	AU,[x,y,z],r
Position of COMET:	0.1804	-4.6123	-0.3821	4.6317	AU,[x,y,z],r
Velocity of ROSETTA	8.64	6.22	-0.18	10.65	km/s,[vx,vy,vz],v
Velocity of COMET:	8.92	6.99	-0.29	11.33	km/s,[vx,vy,vz],v
Tail Intersection Angle:	123.3				deg
Velocity of ROSETTA					
normal to Tail:	8.90				km/s
Progagting Time					
of Tail	0.000				days

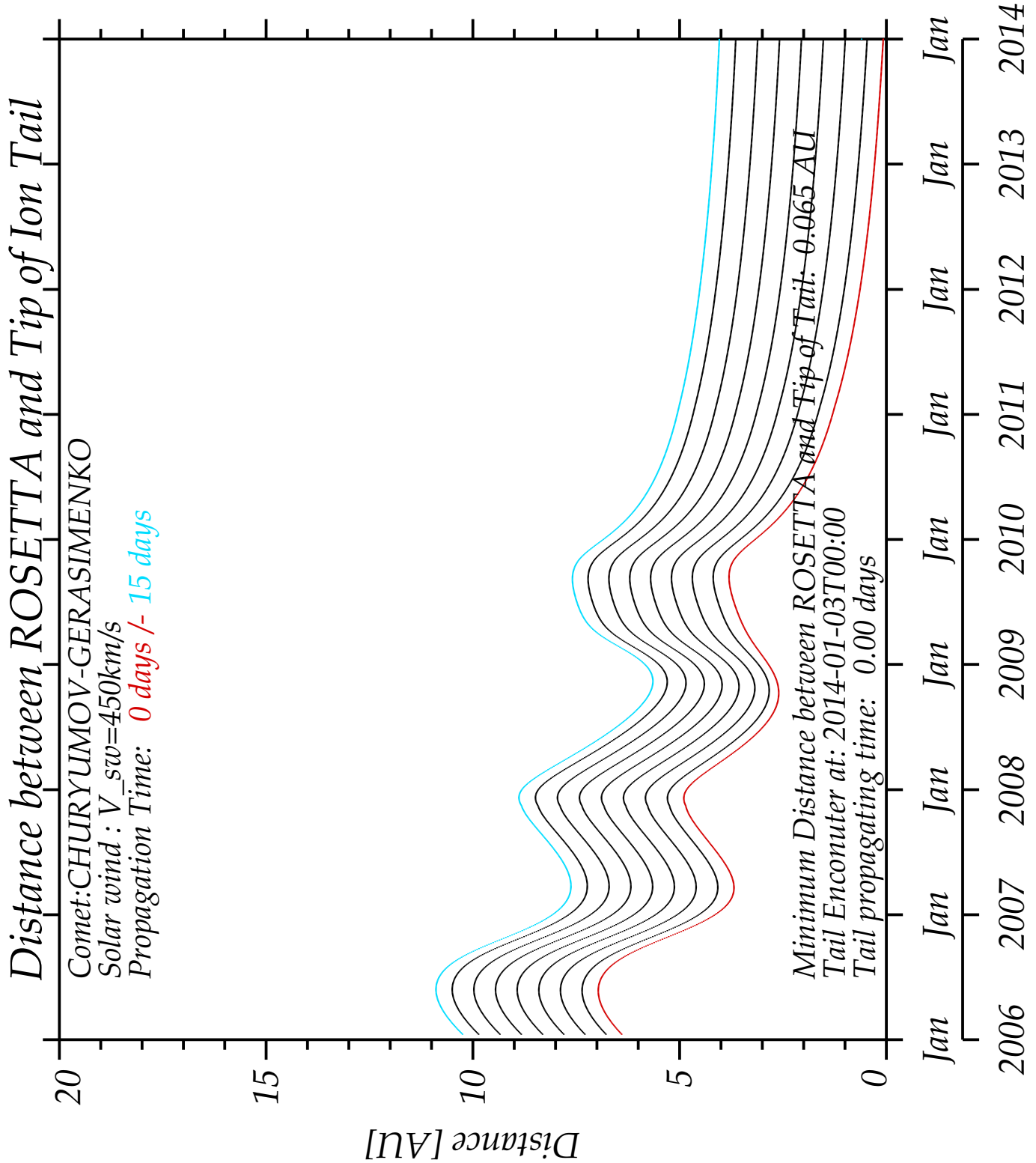


Figure 137: Minimum Distances: ROSETTA - CHURYUMOV-GERASIMENKO

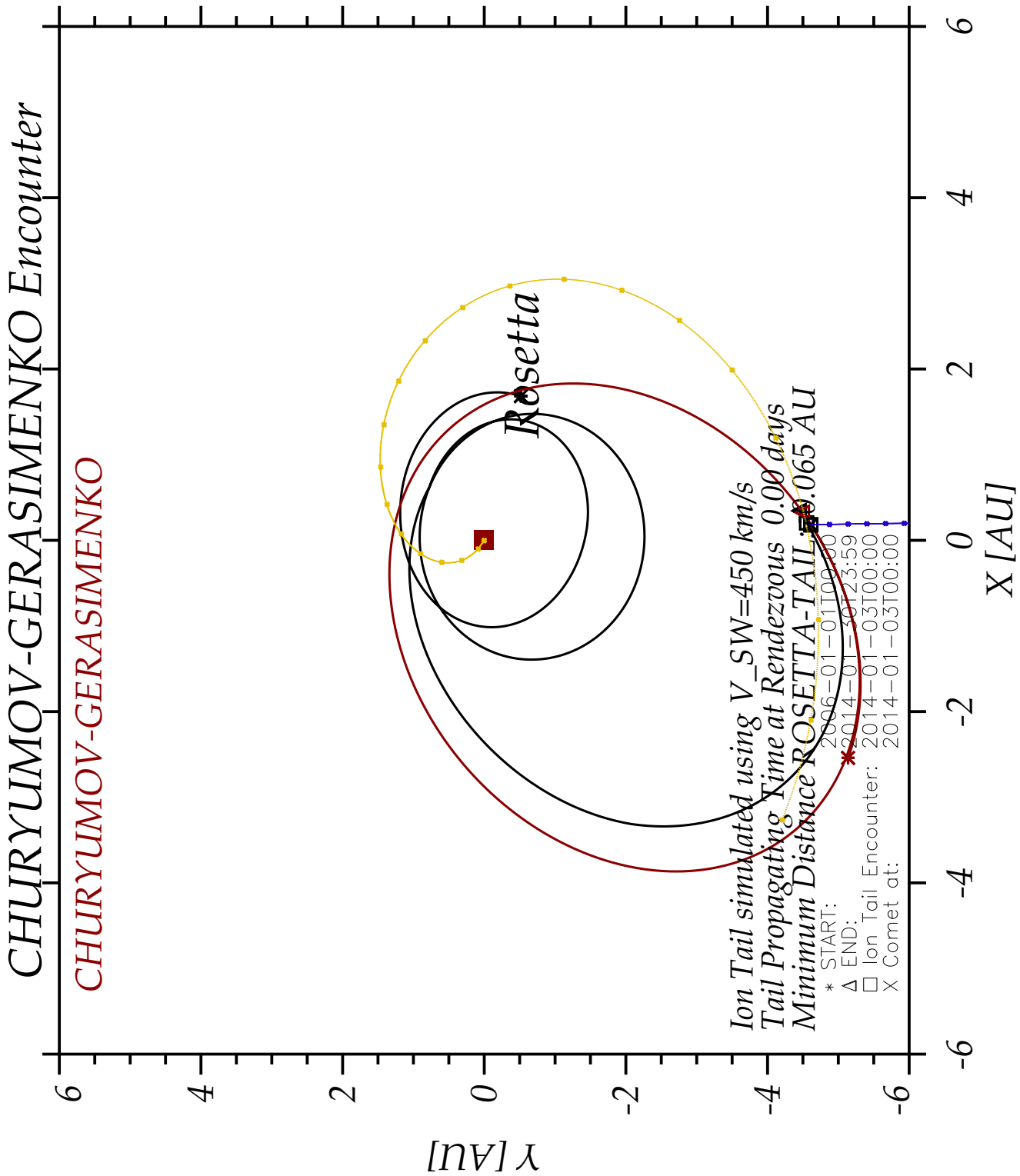


Figure 138: Overview: ROSETTA - CHURYUMOV-GERASIMENKO

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72 Comet 68P/KLEMOLA

Comet: 68P/KLEMOLA
No Encounter below 0.2000AU

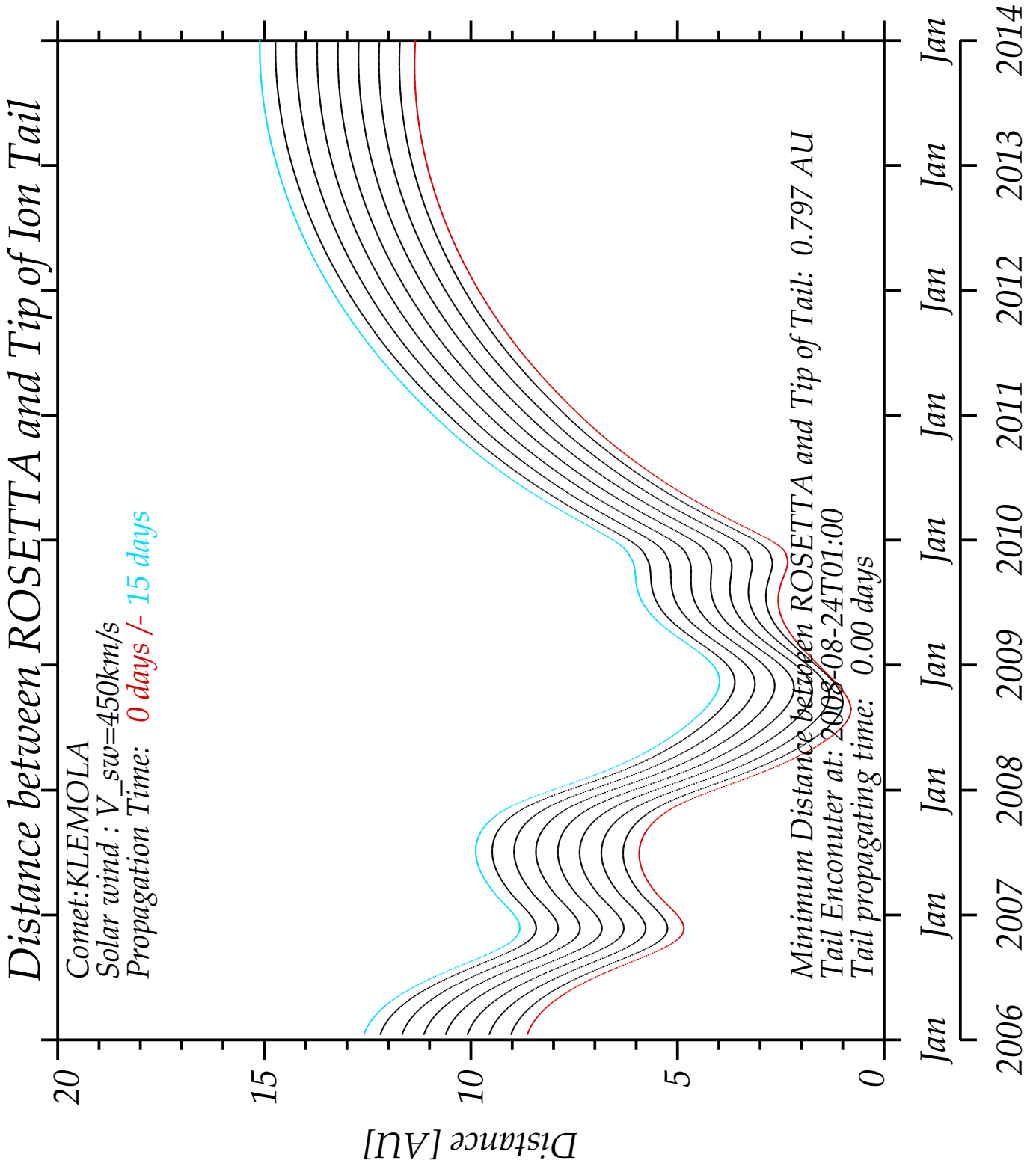


Figure 139: Minimum Distances: ROSETTA - KLEMOLA

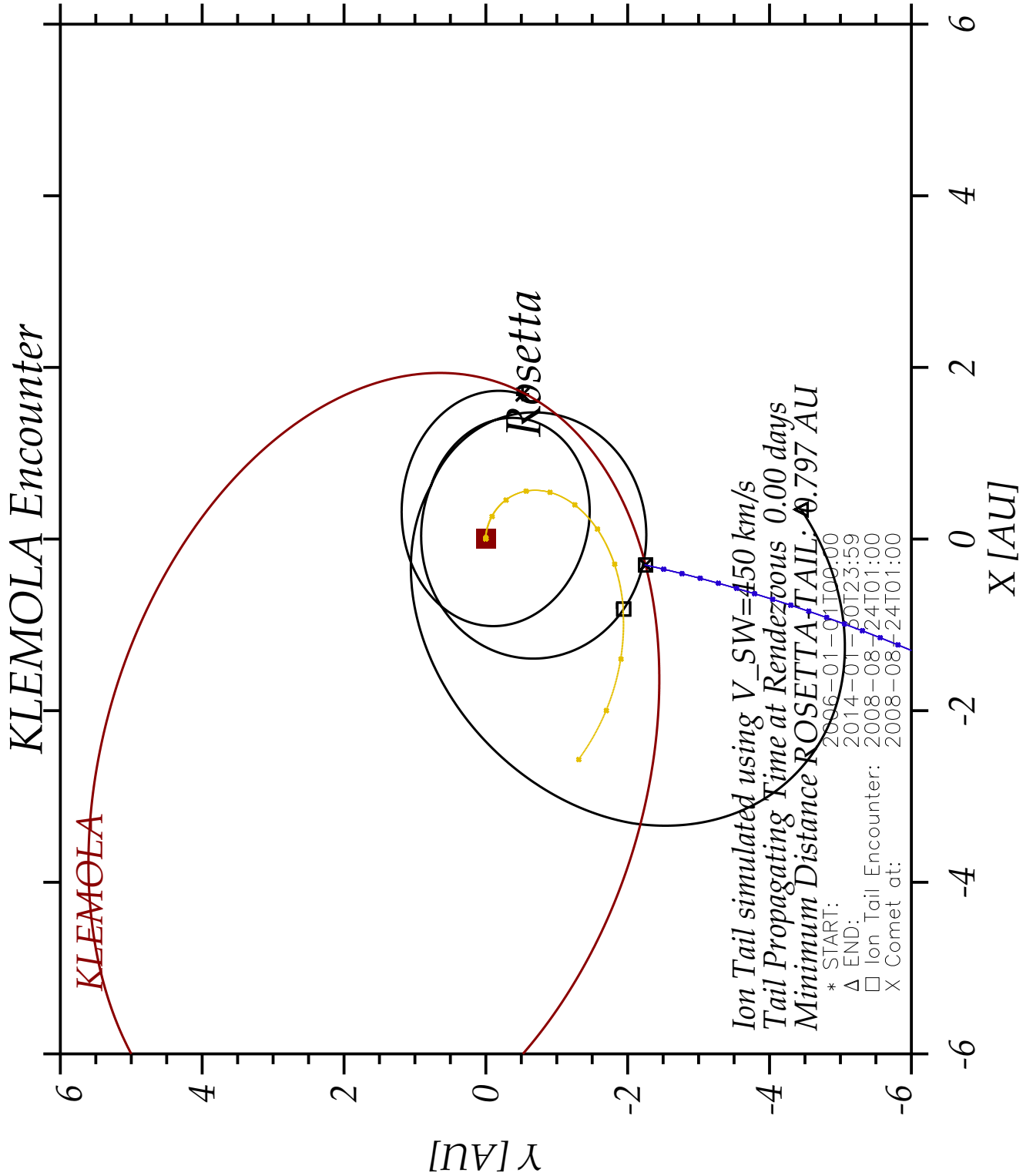


Figure 140: Overview: ROSETTA - KLEMOLA

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73 Comet 69P/TAYLOR

Comet: 69P/TAYLOR
No Encounter below 0.2000AU

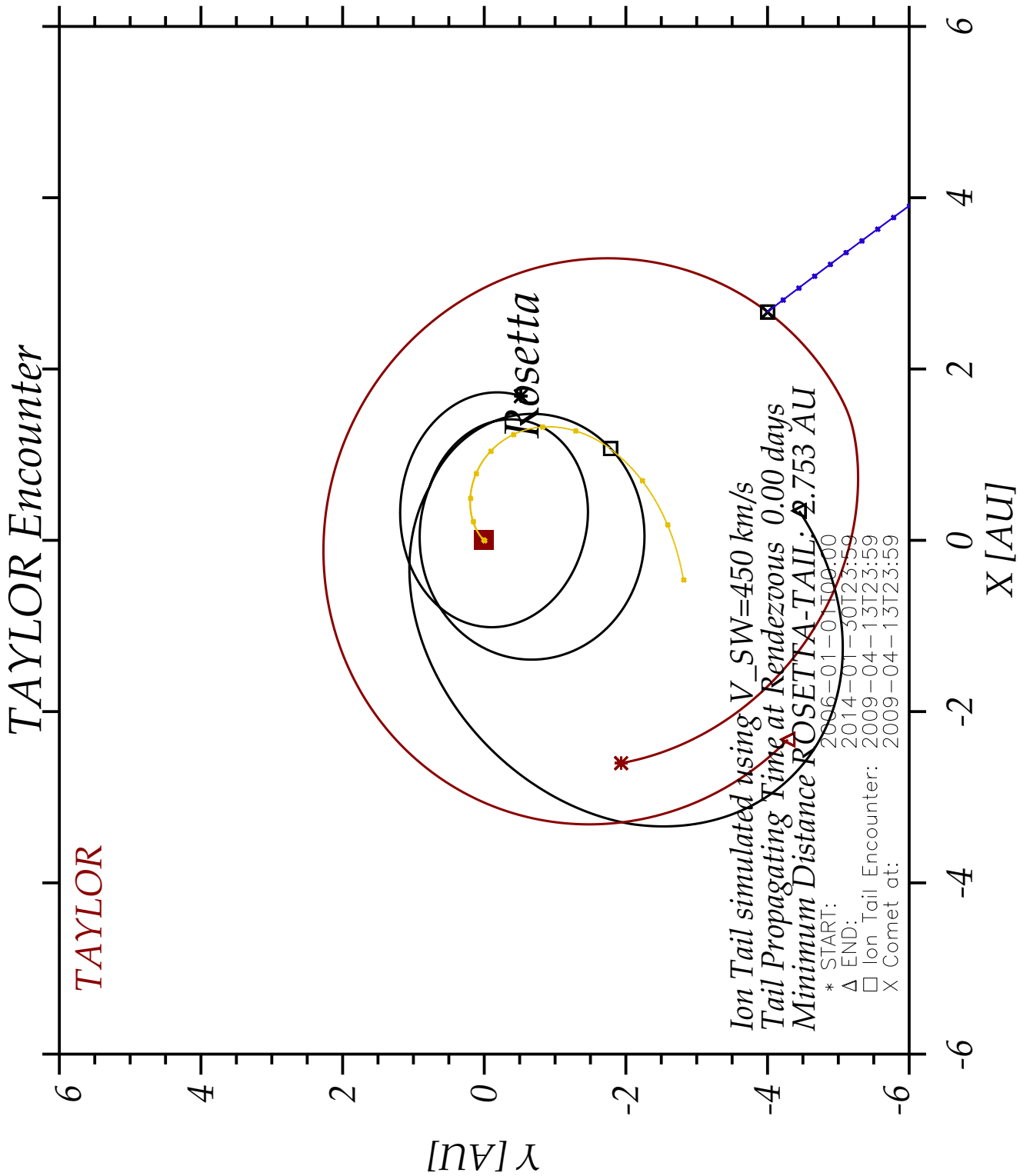


Figure 142: Overview: ROSETTA - TAYLOR

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74 Comet 70P/KOJIMA

Comet: 70P/KOJIMA
No Encounter below 0.2000AU

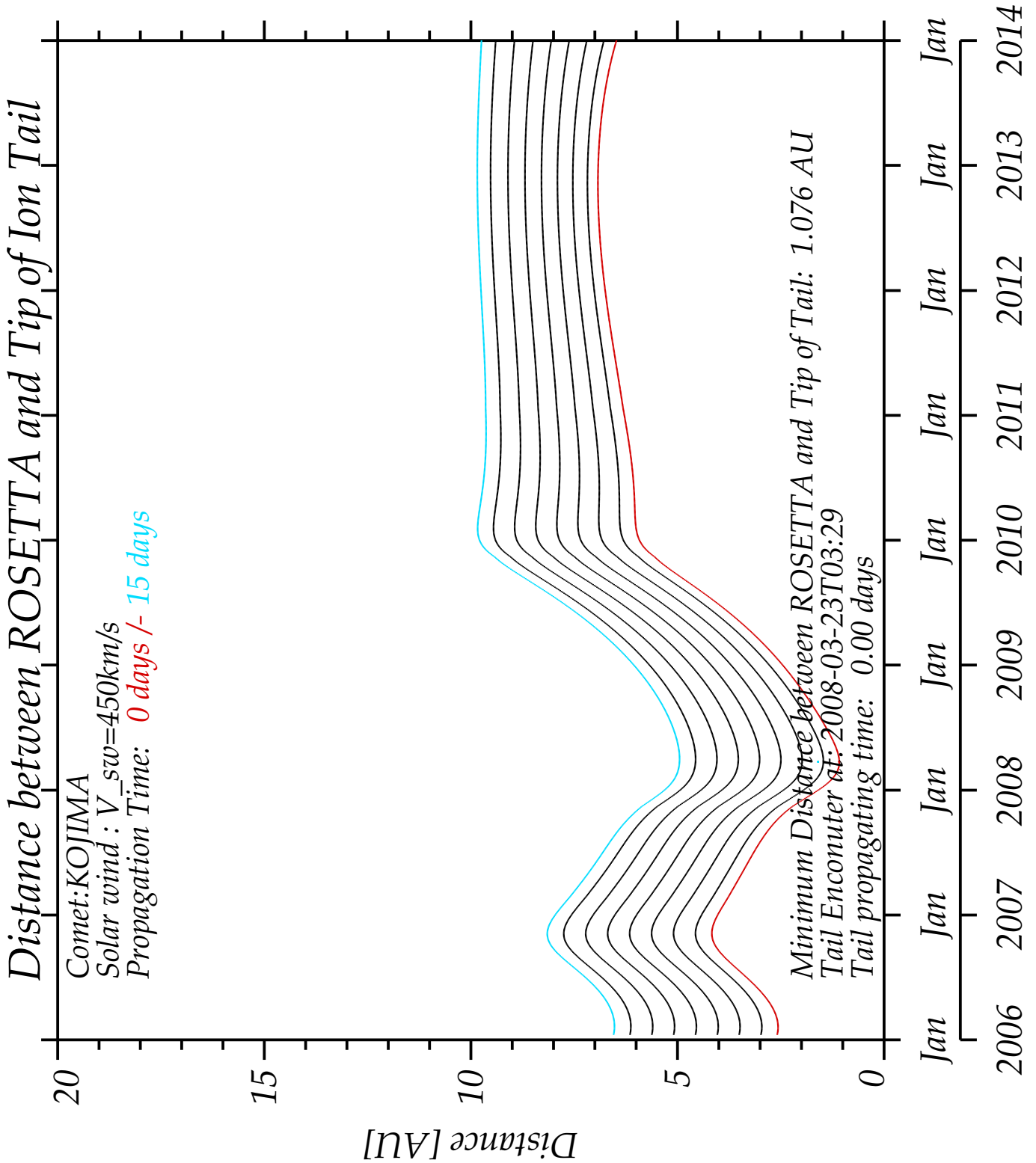


Figure 143: Minimum Distances: ROSETTA - KOJIMA

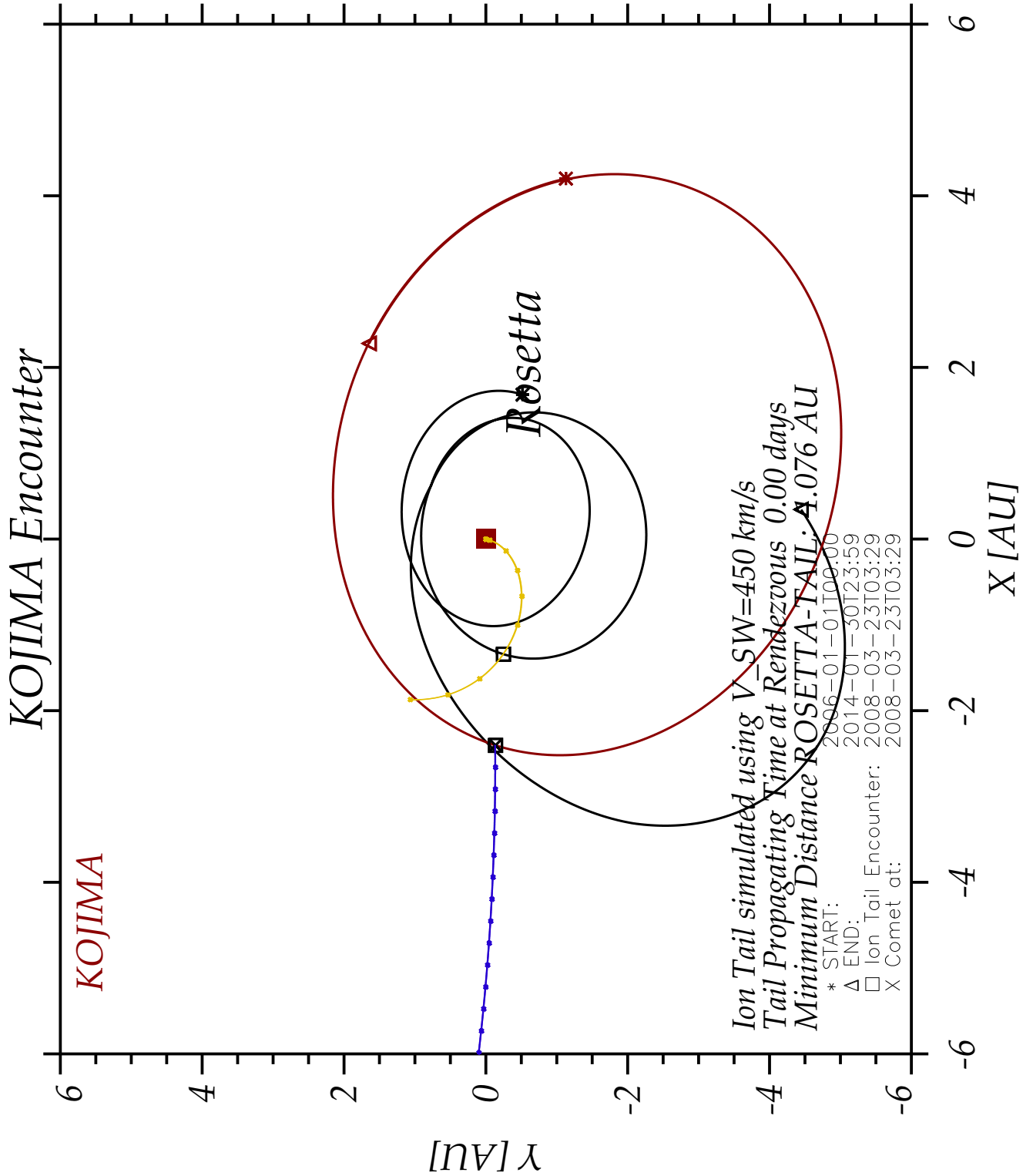


Figure 144: Overview: ROSETTA - KOJIMA

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75 Comet 71P/CLARK

Comet:	71P/CLARK				
Date of Encounter:	2011-10-25T15:00				
Minimum Distance					
ROSETTA/Ion Tail:	0.1850				AU
Position of ROSETTA	-3.0846	-3.8070	-0.0647	4.9002	AU,[x,y,z],r
Position of COMET:	-0.8749	-1.3986	0.0079	1.6497	AU,[x,y,z],r
Velocity of ROSETTA	3.79	-8.49	-1.01	9.35	km/s,[vx,vy,vz],v
Velocity of COMET:	25.83	-10.38	-4.60	28.21	km/s,[vx,vy,vz],v
Tail Intersection Angle:	72.9				deg
Velocity of ROSETTA					
normal to Tail:	8.94				km/s
Proagating Time					
of Tail	12.310				days

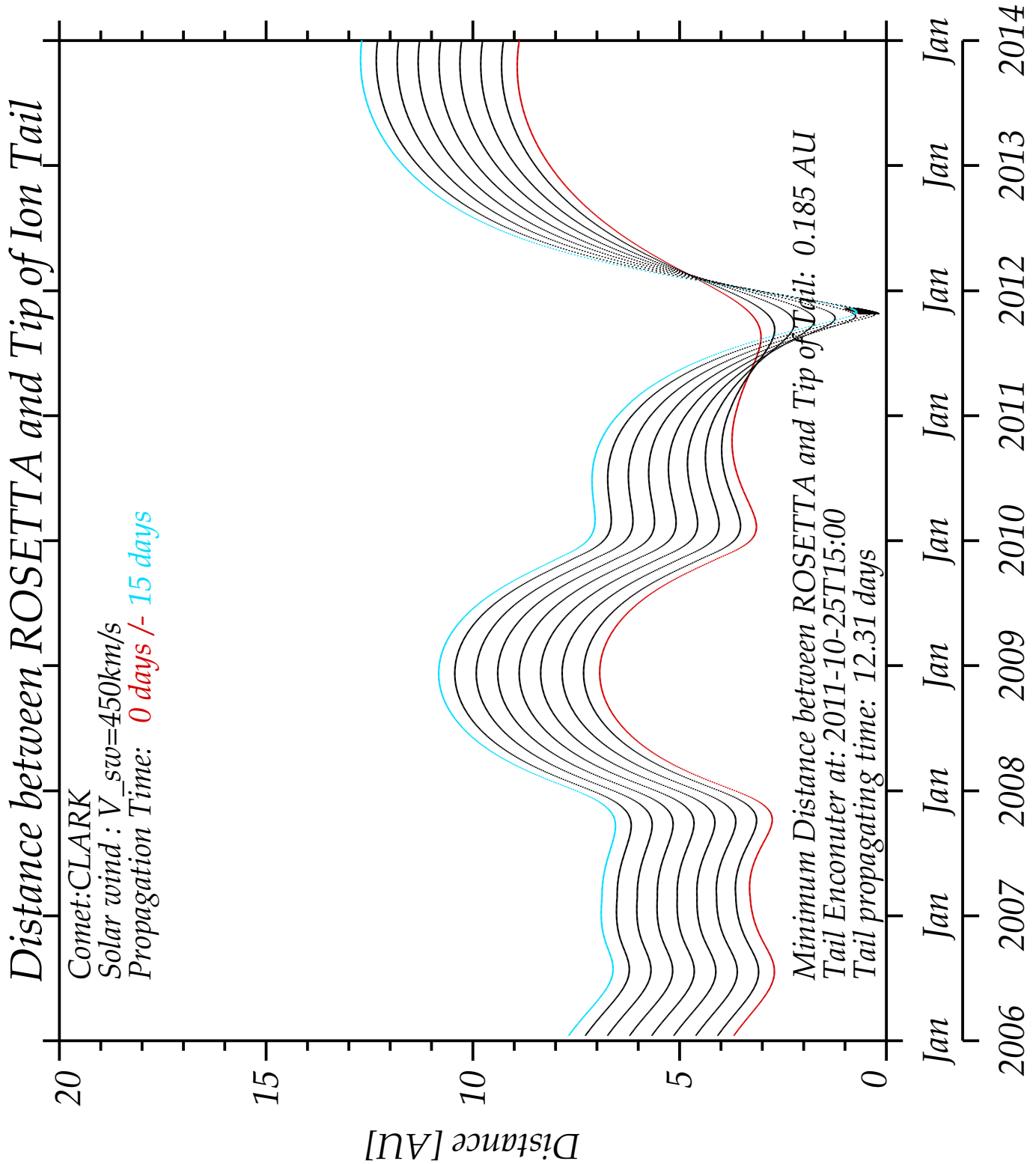


Figure 145: Minimum Distances: ROSETTA - CLARK

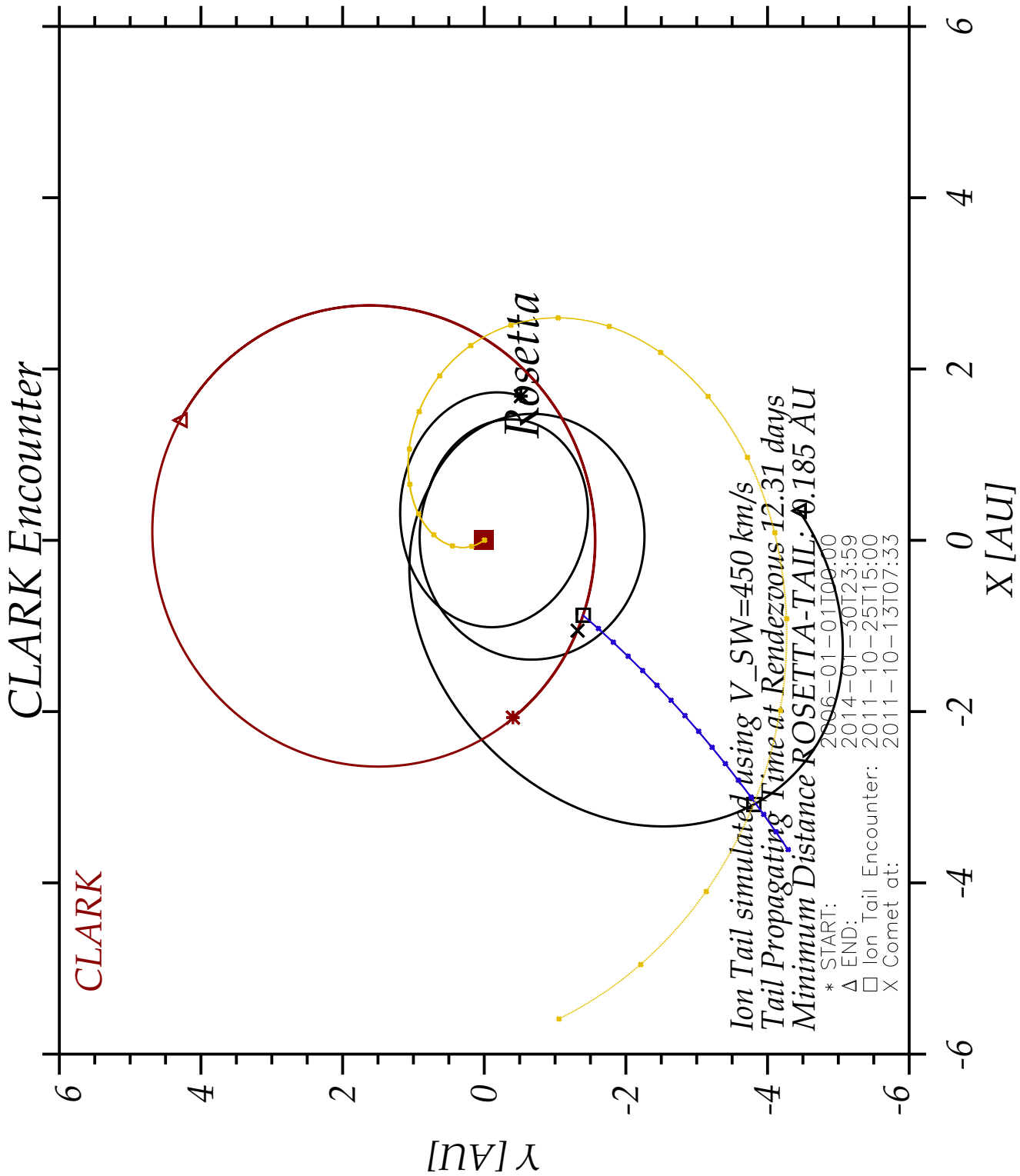


Figure 146: Overview: ROSETTA - CLARK

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76 Comet 72P/DENNING-FUJIKAWA

Comet: 72P/DENNING-FUJIKAWA
No Encounter below 0.2000AU

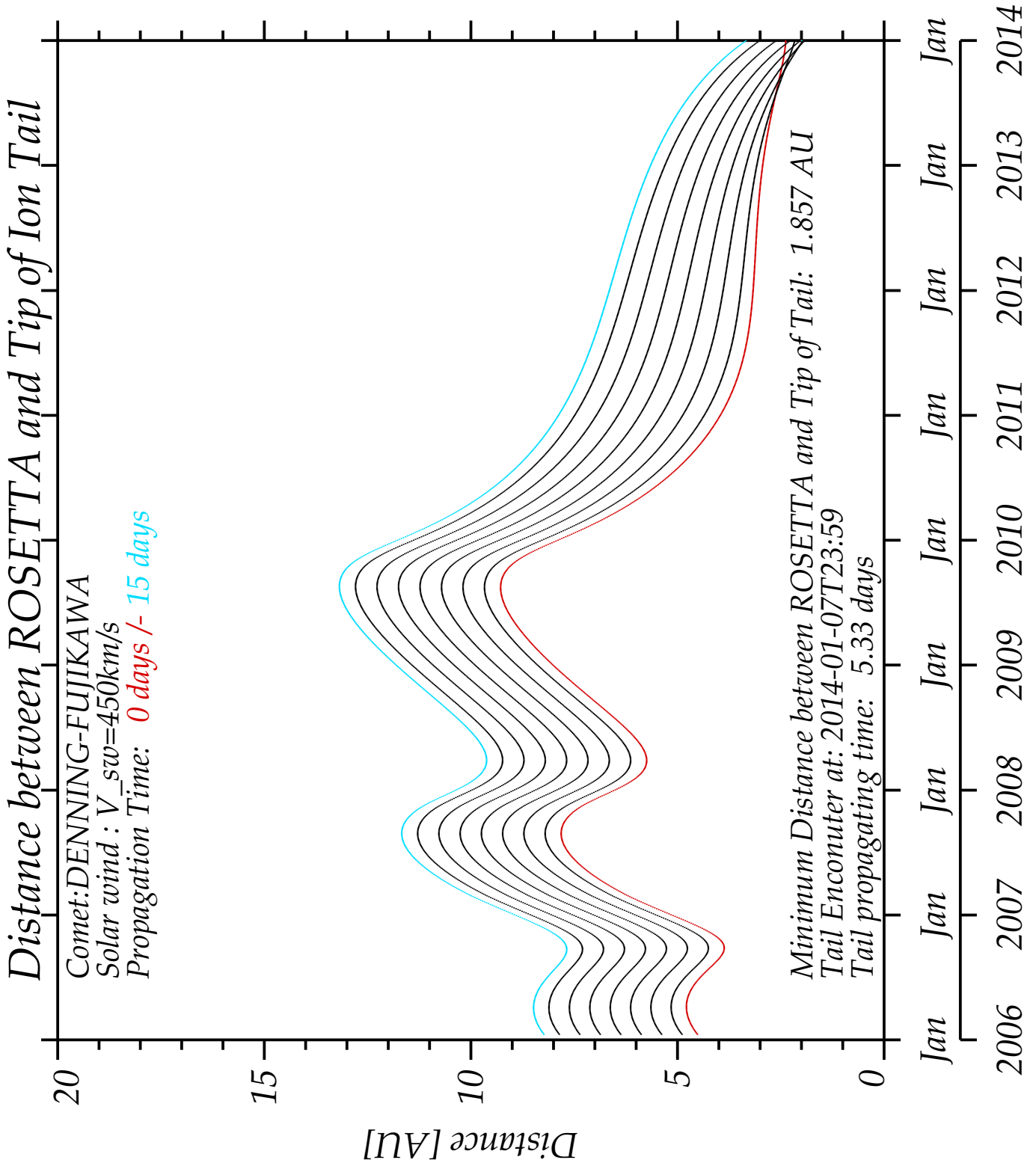


Figure 147: Minimum Distances: ROSETTA - DENNING-FUJIKAWA

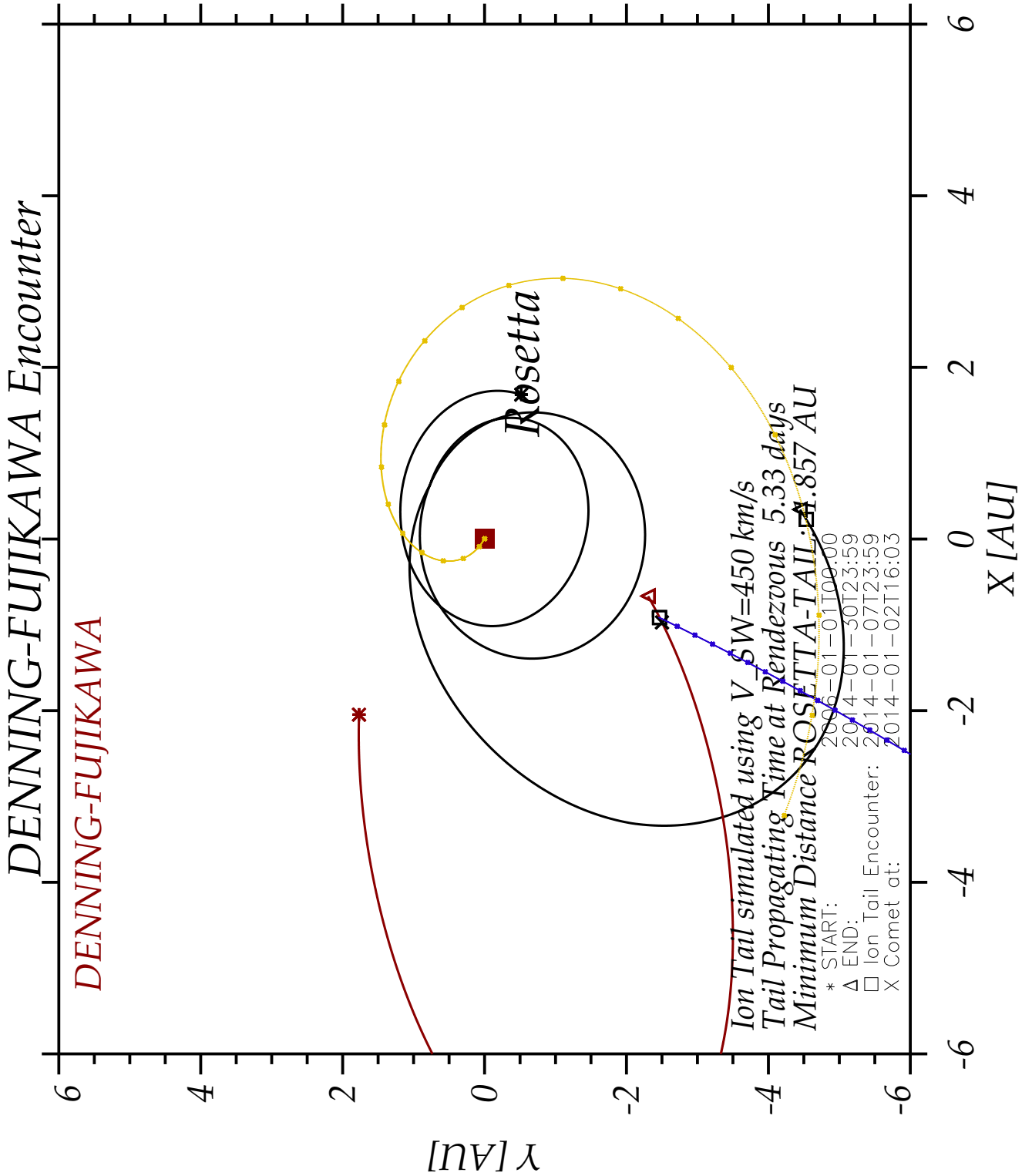


Figure 148: Overview: ROSETTA - DENNING-FUJIKAWA

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77 Comet 73P/SCHWASSMANN-WACHMANN 3

Comet: 73P/SCHWASSMANN-WACHMANN 3
No Encounter below 0.2000AU

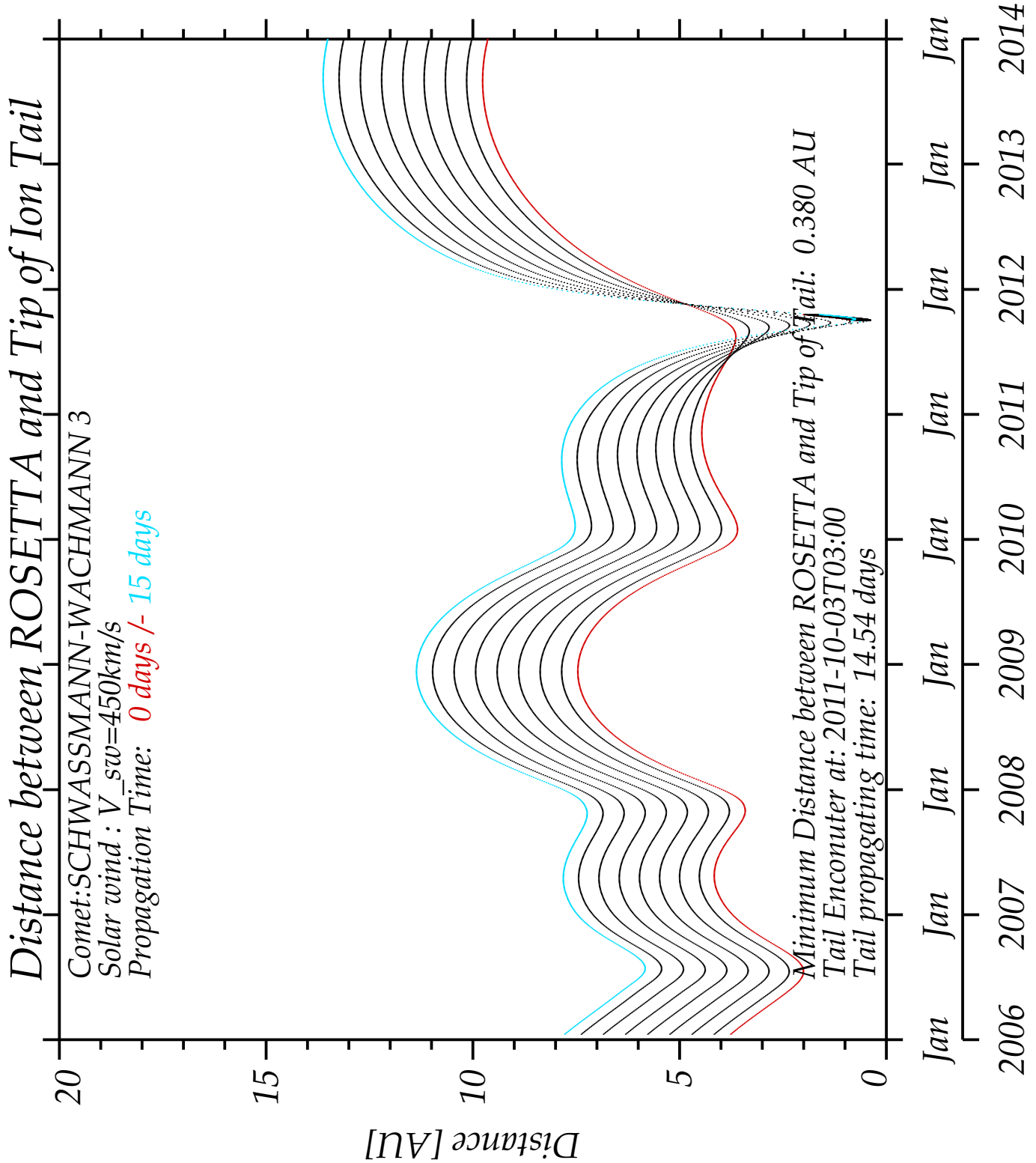


Figure 149: Minimum Distances: ROSETTA - SCHWASSMANN-WACHMANN 3

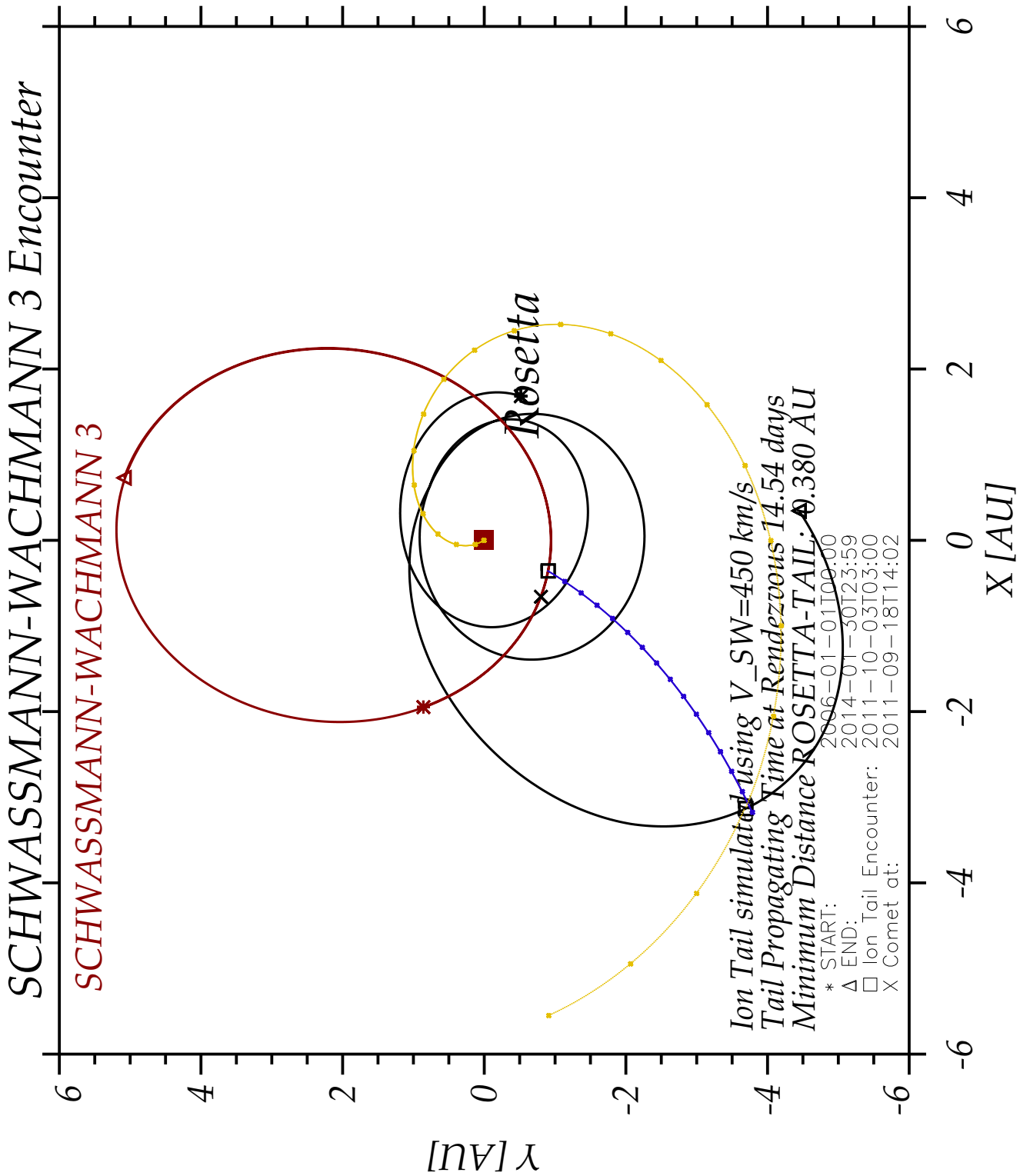


Figure 150: Overview: ROSETTA - SCHWASSMANN-WACHMANN 3

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78 Comet 74P/SMIRNOVA-CHERNYKH

Comet: 74P/SMIRNOVA-CHERNYKH
No Encounter below 0.2000AU

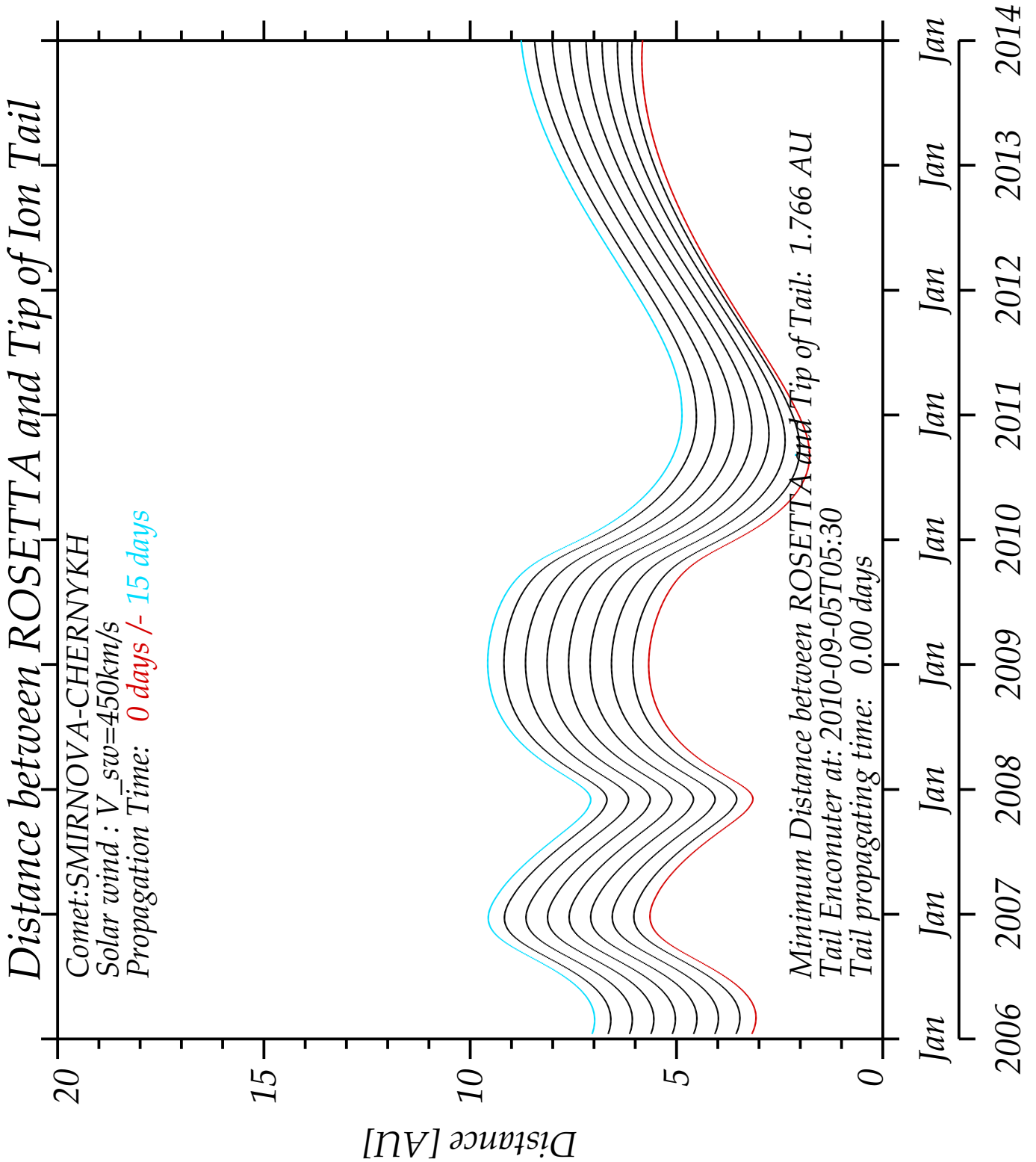


Figure 151: Minimum Distances: ROSETTA - SMIRNOVA-CHERNYKH

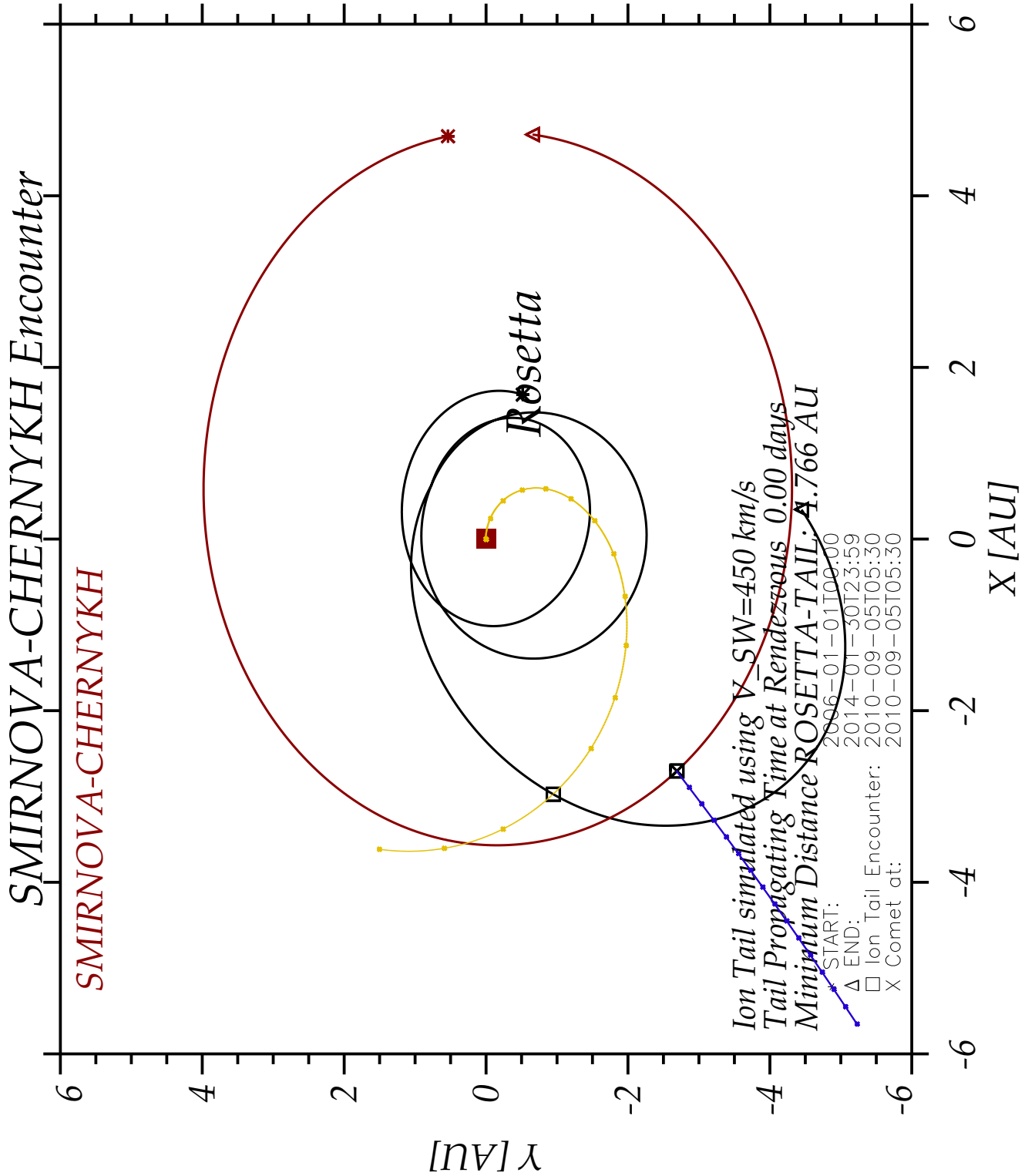


Figure 152: Overview: ROSETTA - SMIRNOVA-CHERNYKH

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79 Comet 75D/KOHOUTEK

Comet: 75D/KOHOUTEK
No Encounter below 0.2000AU

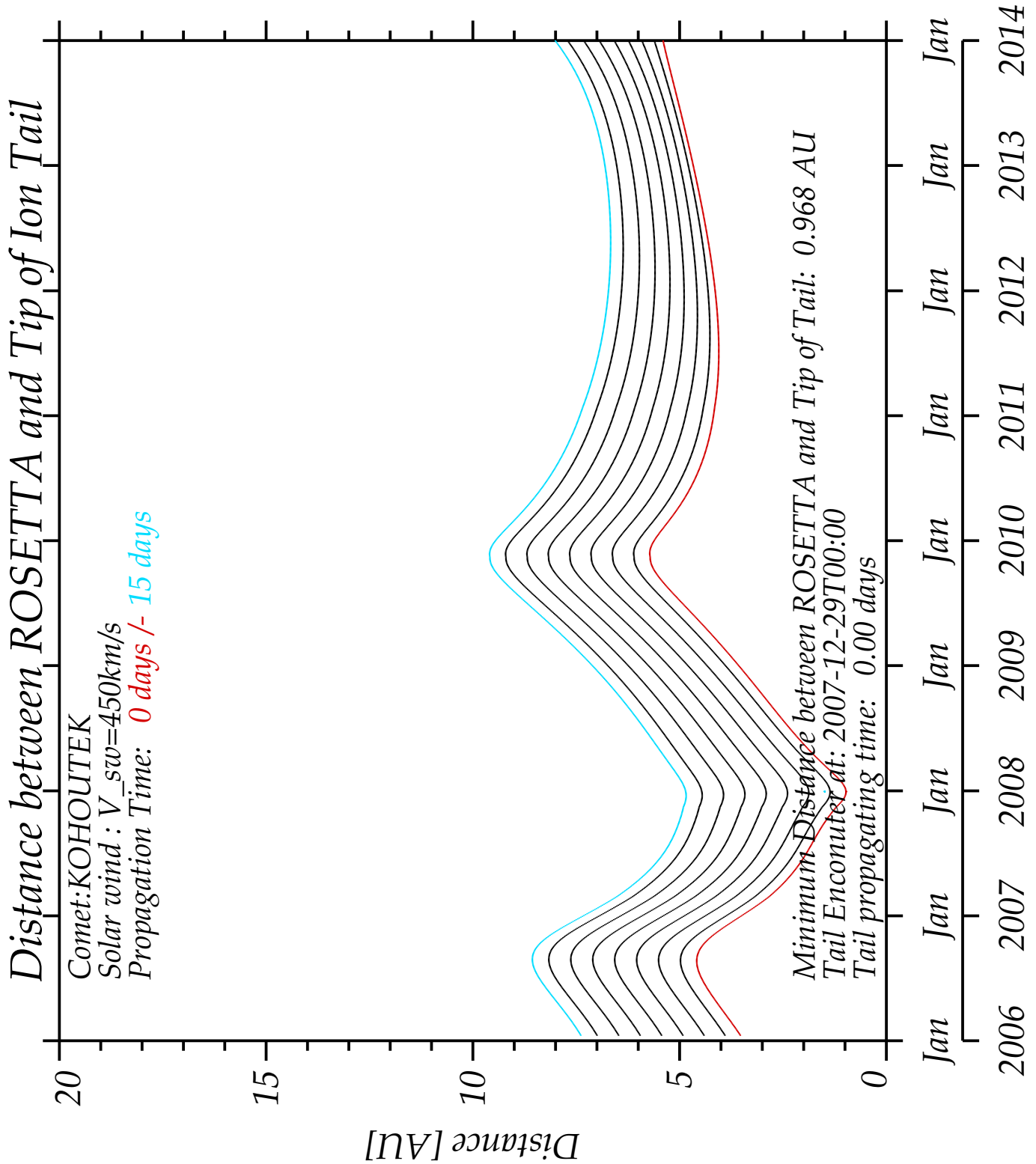


Figure 153: Minimum Distances: ROSETTA - KOHOUTEK

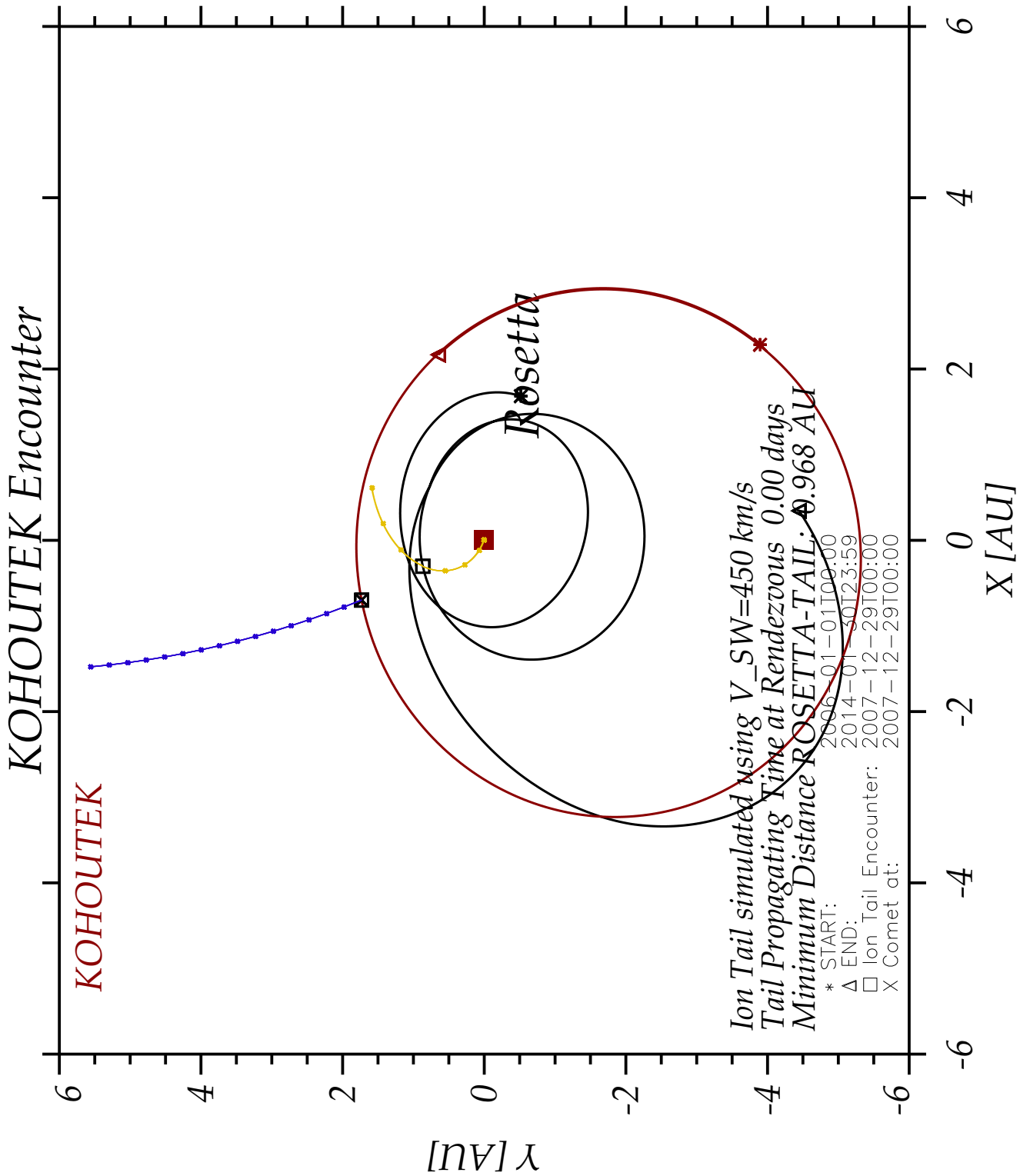


Figure 154: Overview: ROSETTA - KOHOUTEK

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80 Comet 76P/WEST-KOHOUTEK-IKEMURA

Comet: 76P/WEST-KOHOUTEK-IKEMURA
No Encounter below 0.2000AU

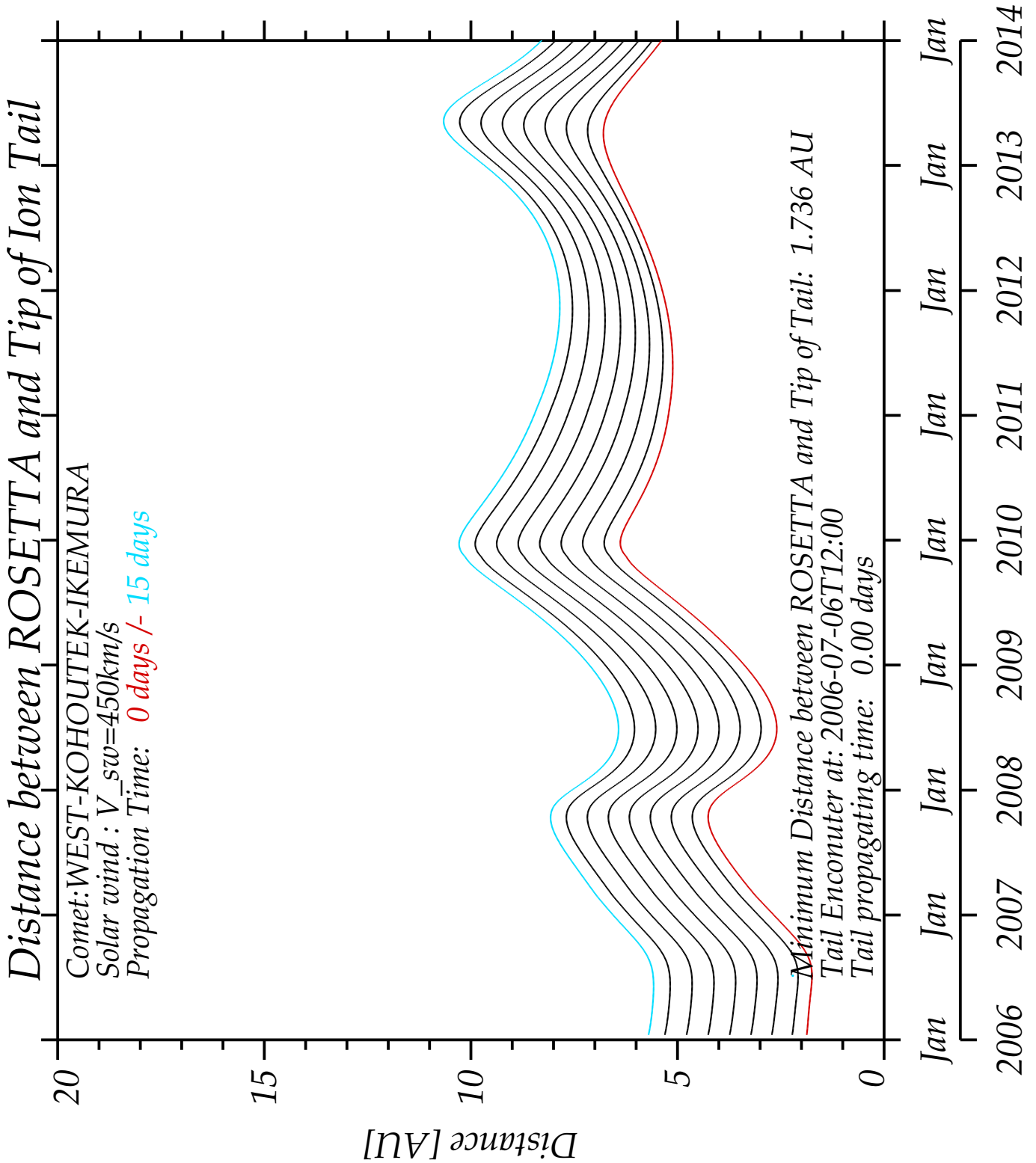


Figure 155: Minimum Distances: ROSETTA - WEST-KOHOUTEK-IKEMURA

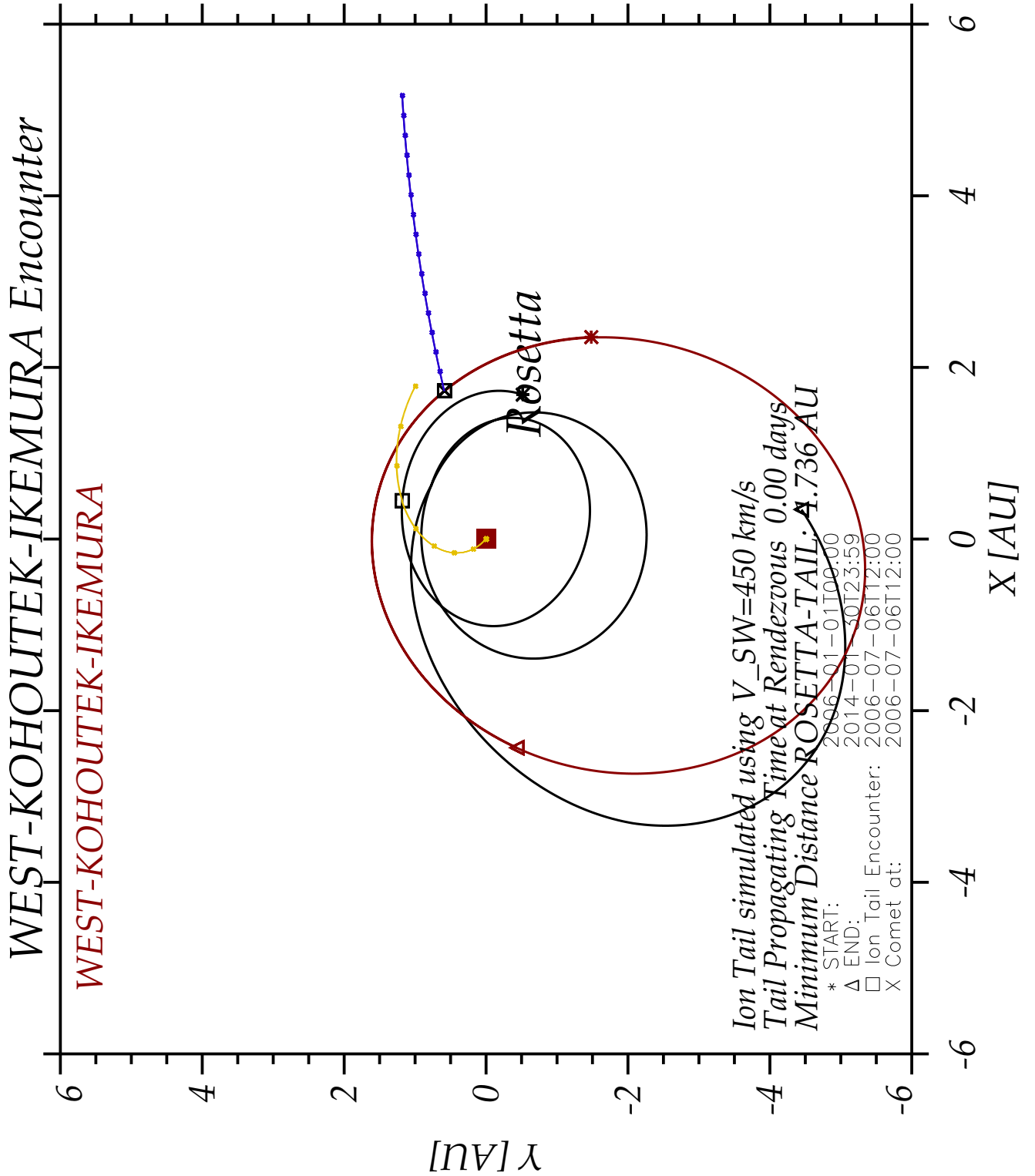


Figure 156: Overview: ROSETTA - WEST-KOHOUTEK-IKEMURA

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81 Comet 77P/LONGMORE

Comet: 77P/LONGMORE
No Encounter below 0.2000AU

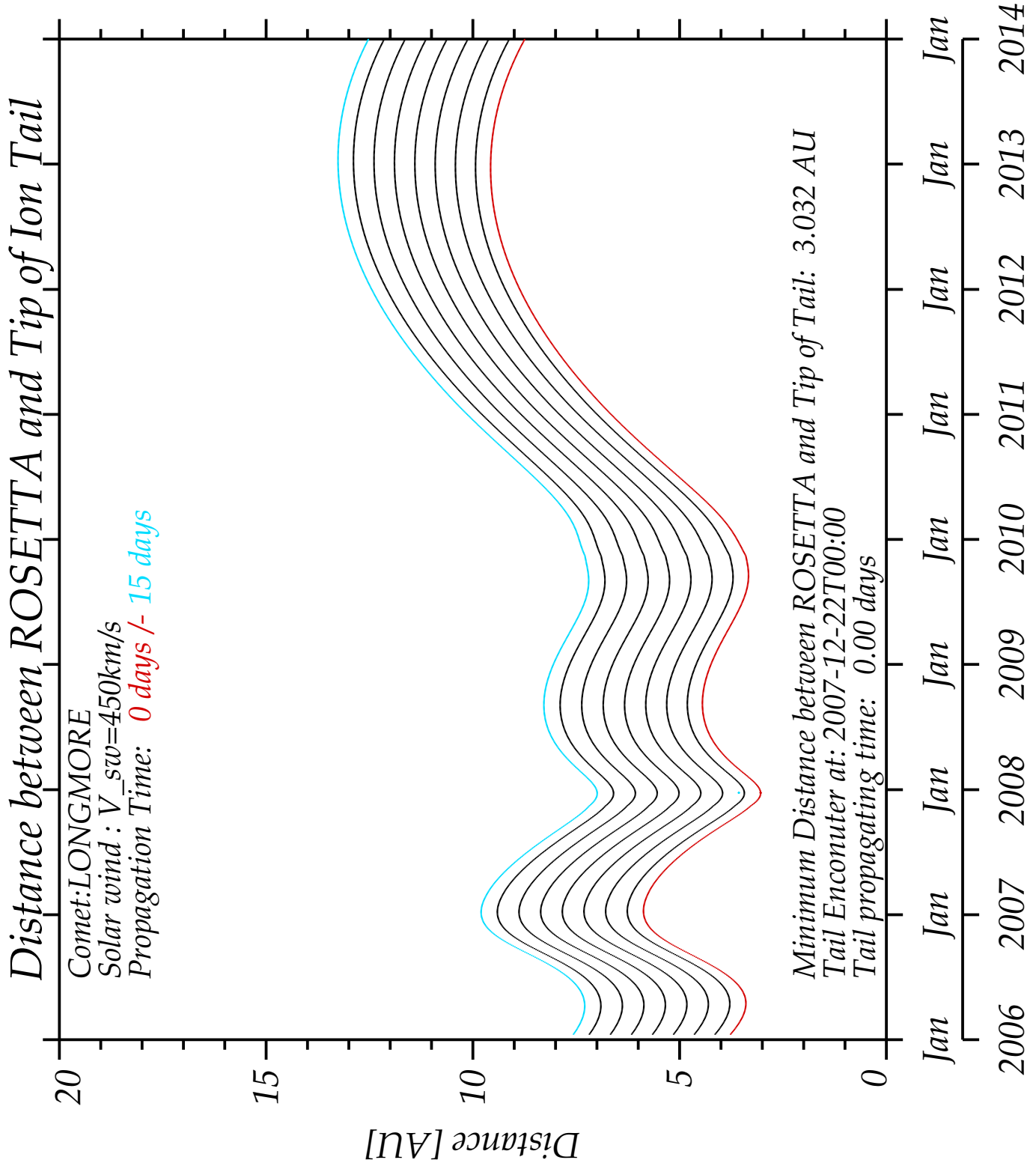


Figure 157: Minimum Distances: ROSETTA - LONGMORE

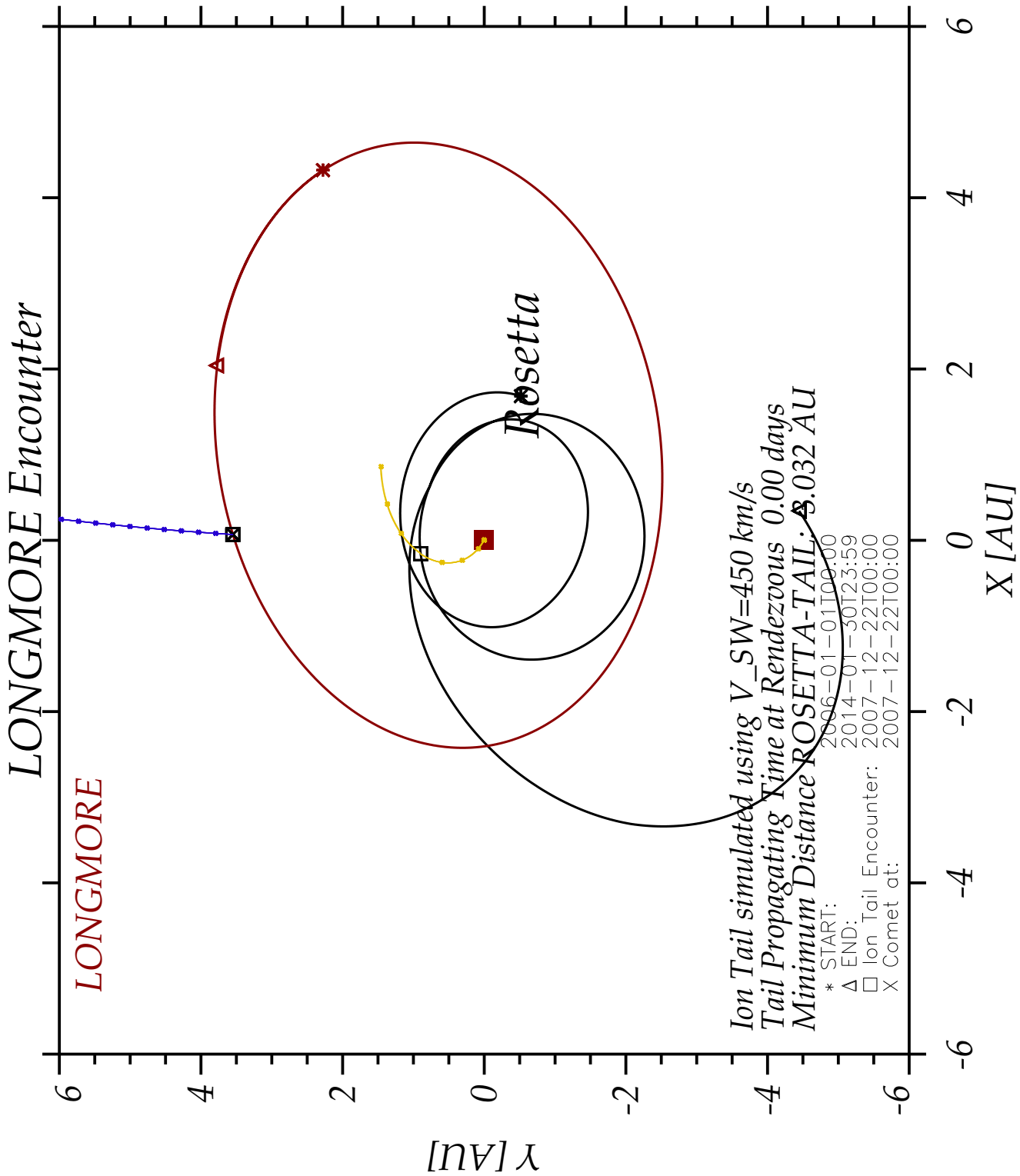


Figure 158: Overview: ROSETTA - LONGMORE

<p style="text-align: center;">R O S E T T A</p>	<p>Document: RO-IGEP-TR-0020 Issue: 1 Revision: 2</p>
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82 Comet 78P/GEHRELS 2

<p>Comet: 78P/GEHRELS 2</p>
<p>No Encounter below 0.2000AU</p>

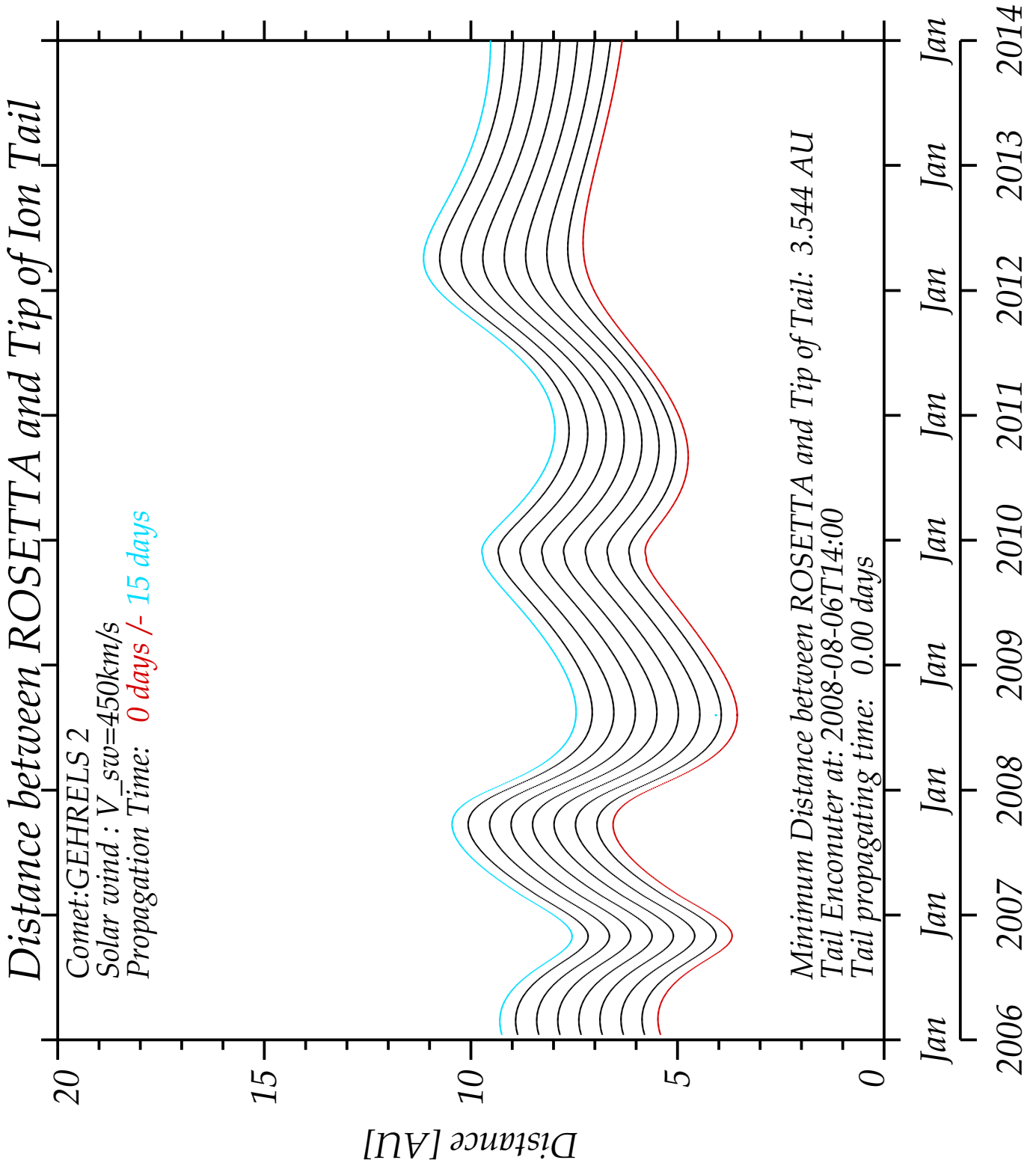


Figure 159: Minimum Distances: ROSETTA - GEHRELS 2

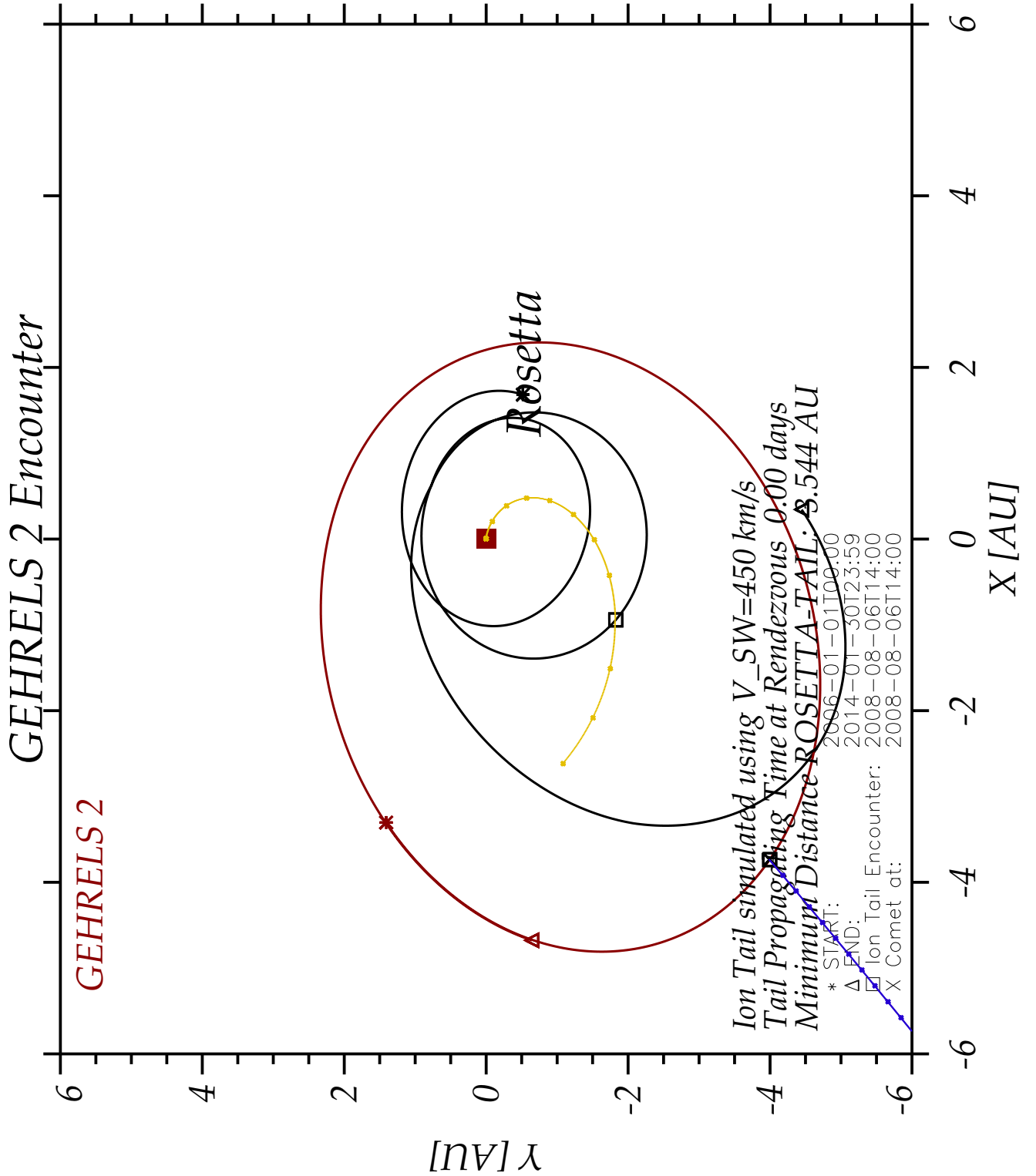


Figure 160: Overview: ROSETTA - GEHRELS 2

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83 Comet 79P/DU TOIT-HARTLEY

Comet:	79P/DU TOIT-HARTLEY				
Date of Encounter:	2008-07-08T09:00				
Minimum Distance					
ROSETTA/Ion Tail:	0.0780				AU
Position of ROSETTA	-1.1299	-1.5865	-0.0164	1.9478	AU,[x,y,z],r
Position of COMET:	-0.7285	-1.1080	-0.0634	1.3275	AU,[x,y,z],r
Velocity of ROSETTA	10.06	-15.77	-2.40	18.86	km/s,[vx,vy,vz],v
Velocity of COMET:	22.31	-23.48	0.16	32.39	km/s,[vx,vy,vz],v
Tail Intersection Angle:	73.6				deg
Velocity of ROSETTA					
normal to Tail:	18.10				km/s
Progagting Time					
of Tail	2.440				days

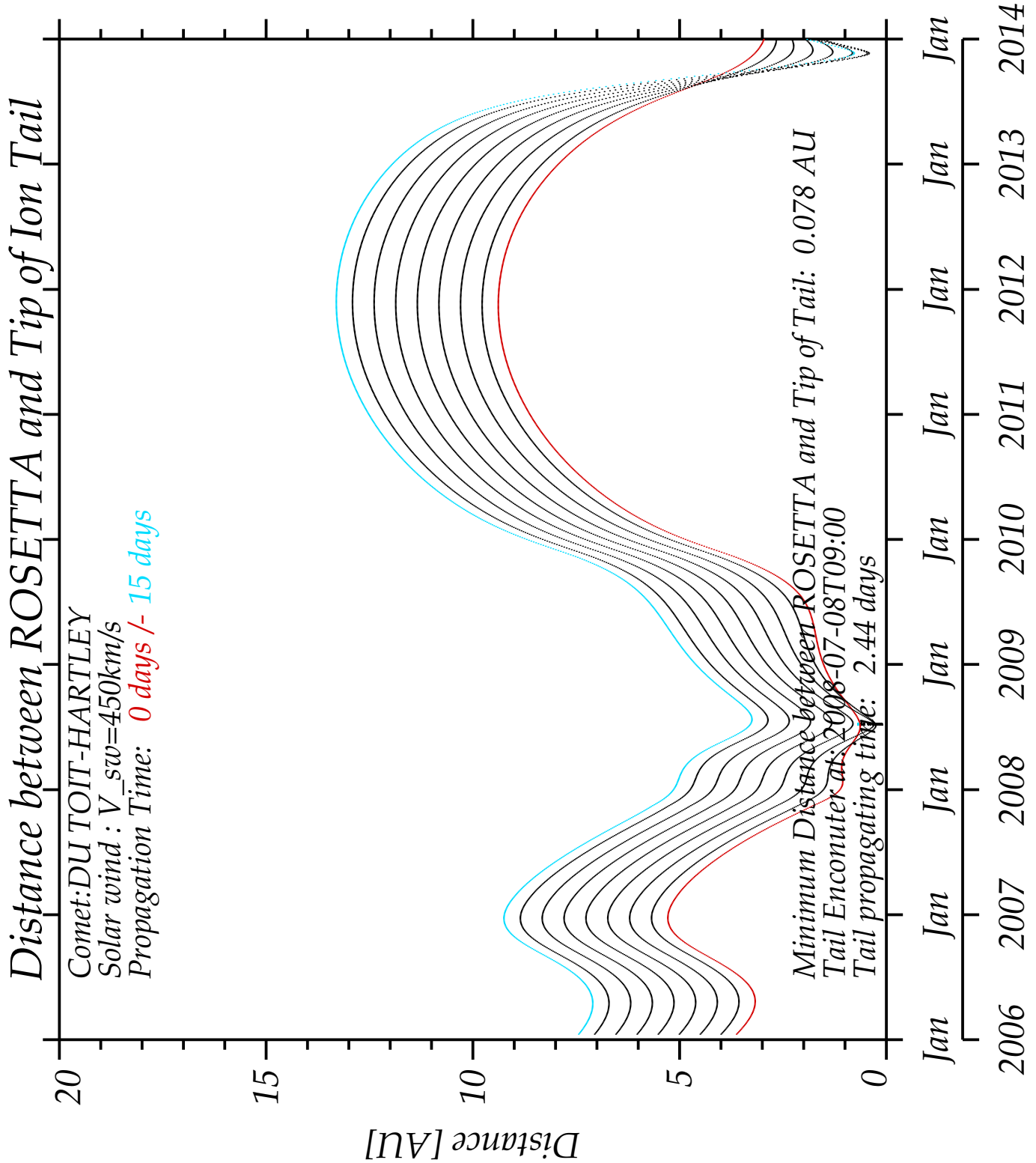


Figure 161: Minimum Distances: ROSETTA - DU TOIT-HARTLEY

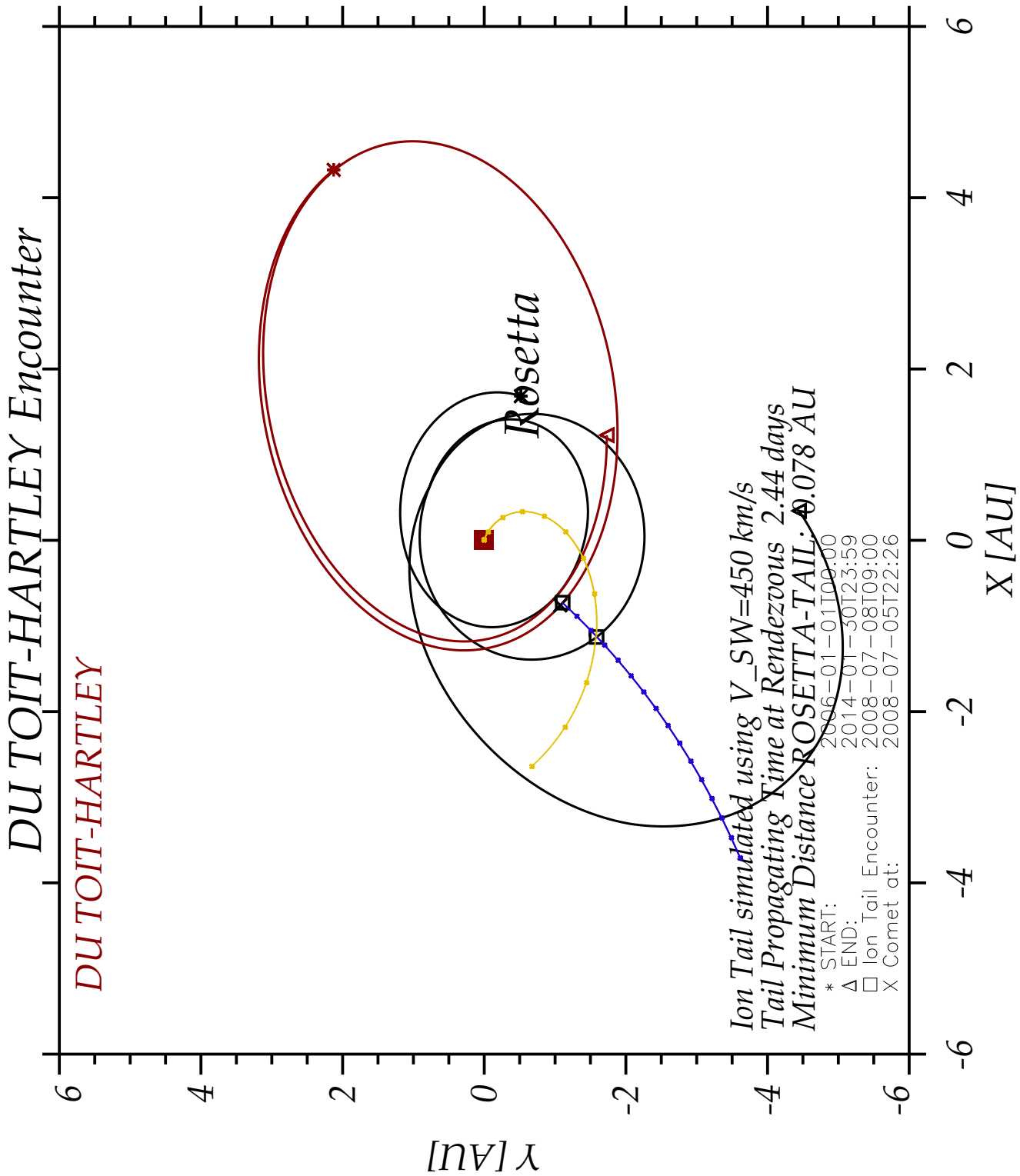


Figure 162: Overview: ROSETTA - DU TOIT-HARTLEY

<p style="text-align: center;">R O S E T T A</p>	<p>Document: RO-IGEP-TR-0020 Issue: 1 Revision: 2</p>
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84 Comet 80P/PETERS-HARTLEY

<p>Comet: 80P/PETERS-HARTLEY</p>
<p>No Encounter below 0.2000AU</p>

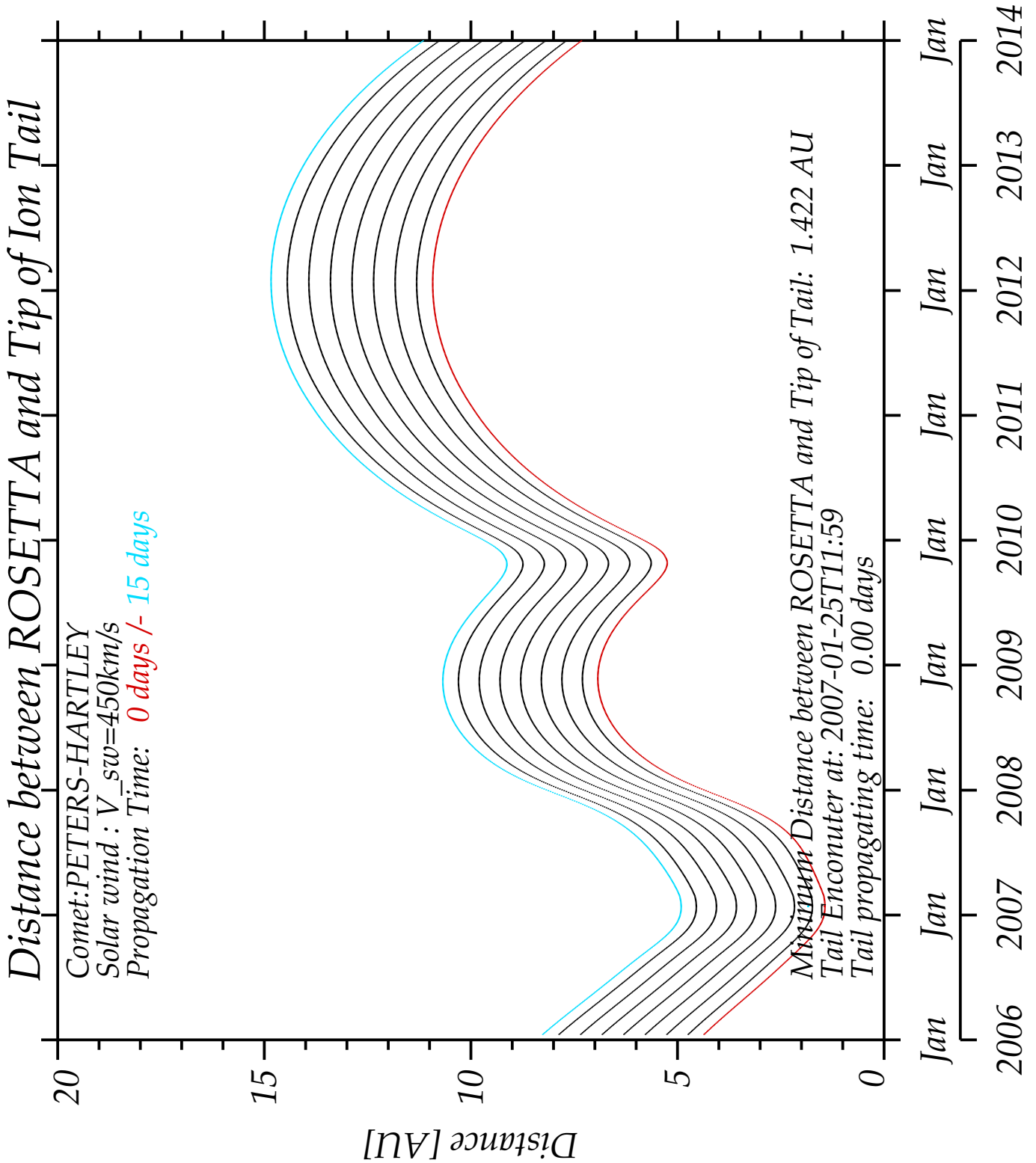


Figure 163: Minimum Distances: ROSETTA - PETERS-HARTLEY

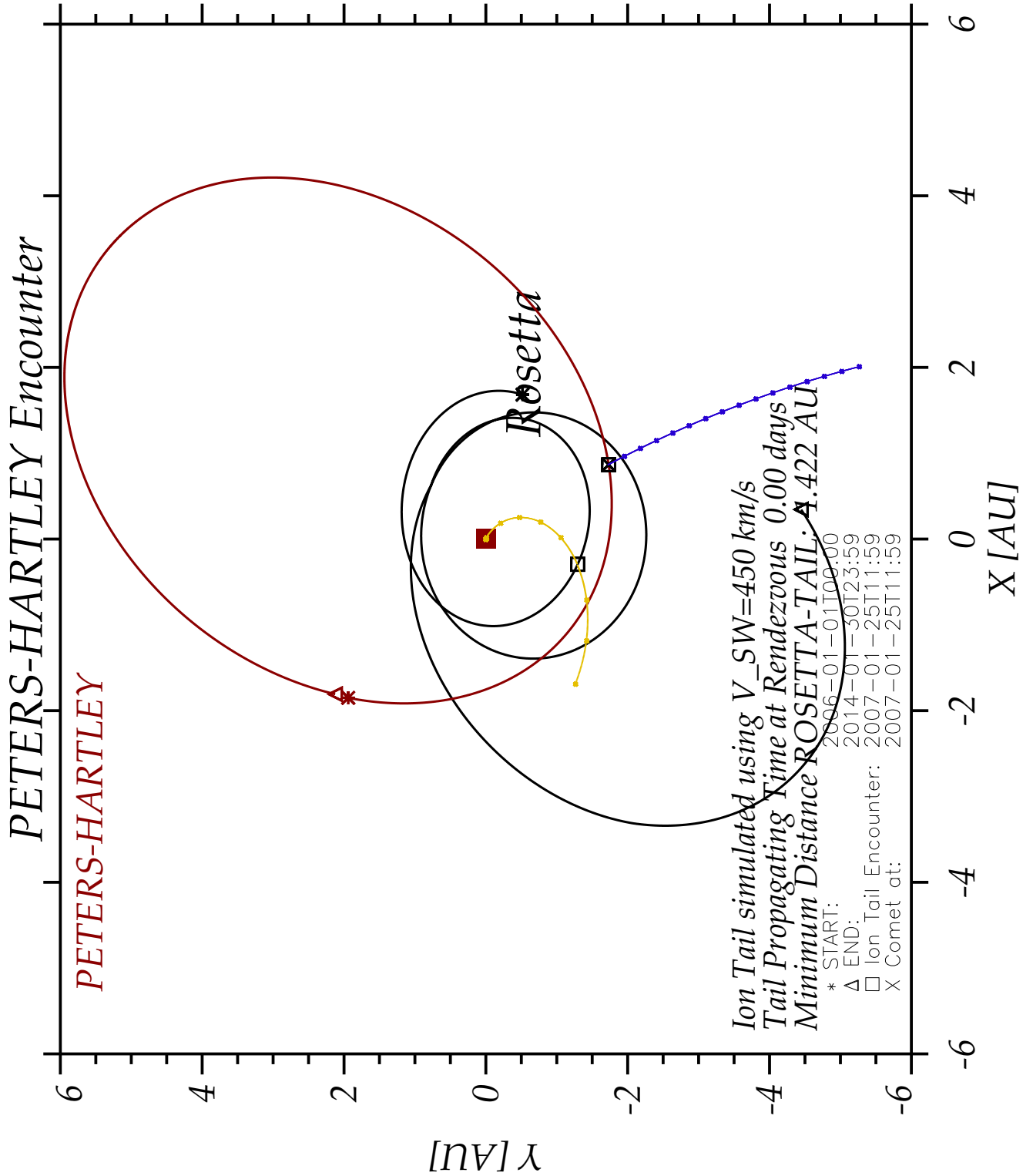


Figure 164: Overview: ROSETTA - PETERS-HARTLEY

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85 Comet 81P/WILD 2

Comet: 81P/WILD 2
No Encounter below 0.2000AU

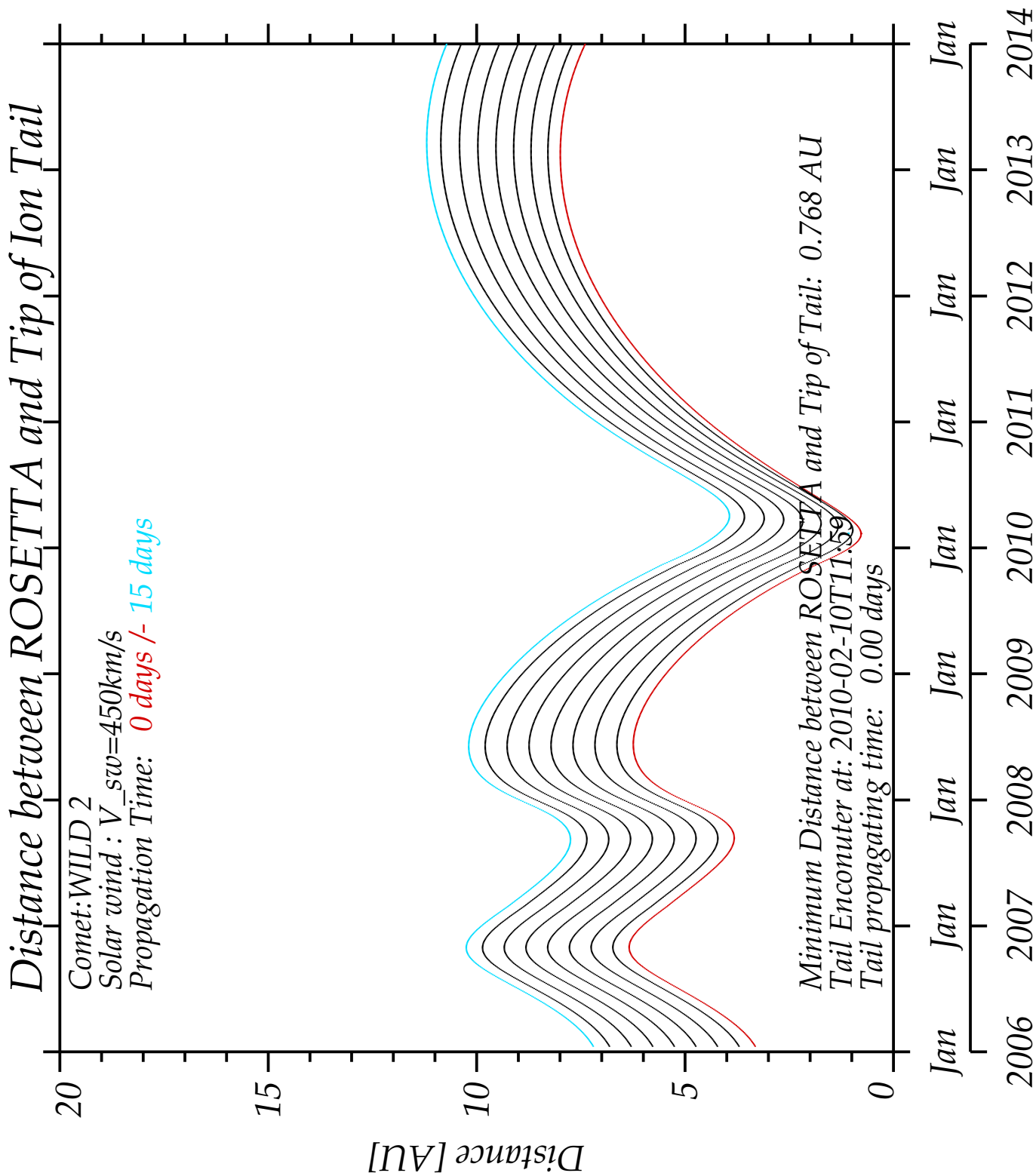


Figure 165: Minimum Distances: ROSETTA - WILD 2

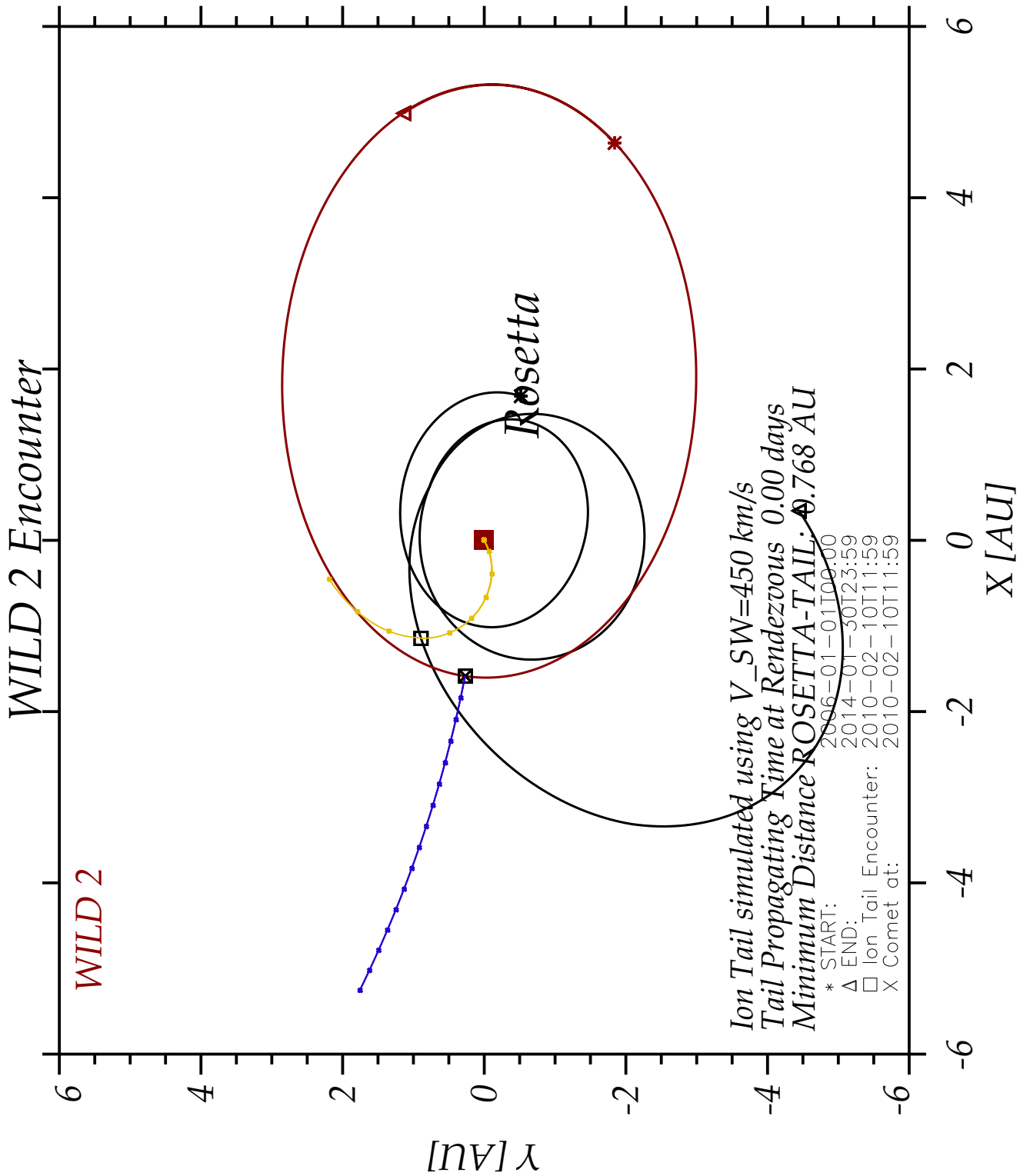


Figure 166: Overview: ROSETTA - WILD 2

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86 Comet 82P/GEHRELS 3

Comet: 82P/GEHRELS 3
No Encounter below 0.2000AU

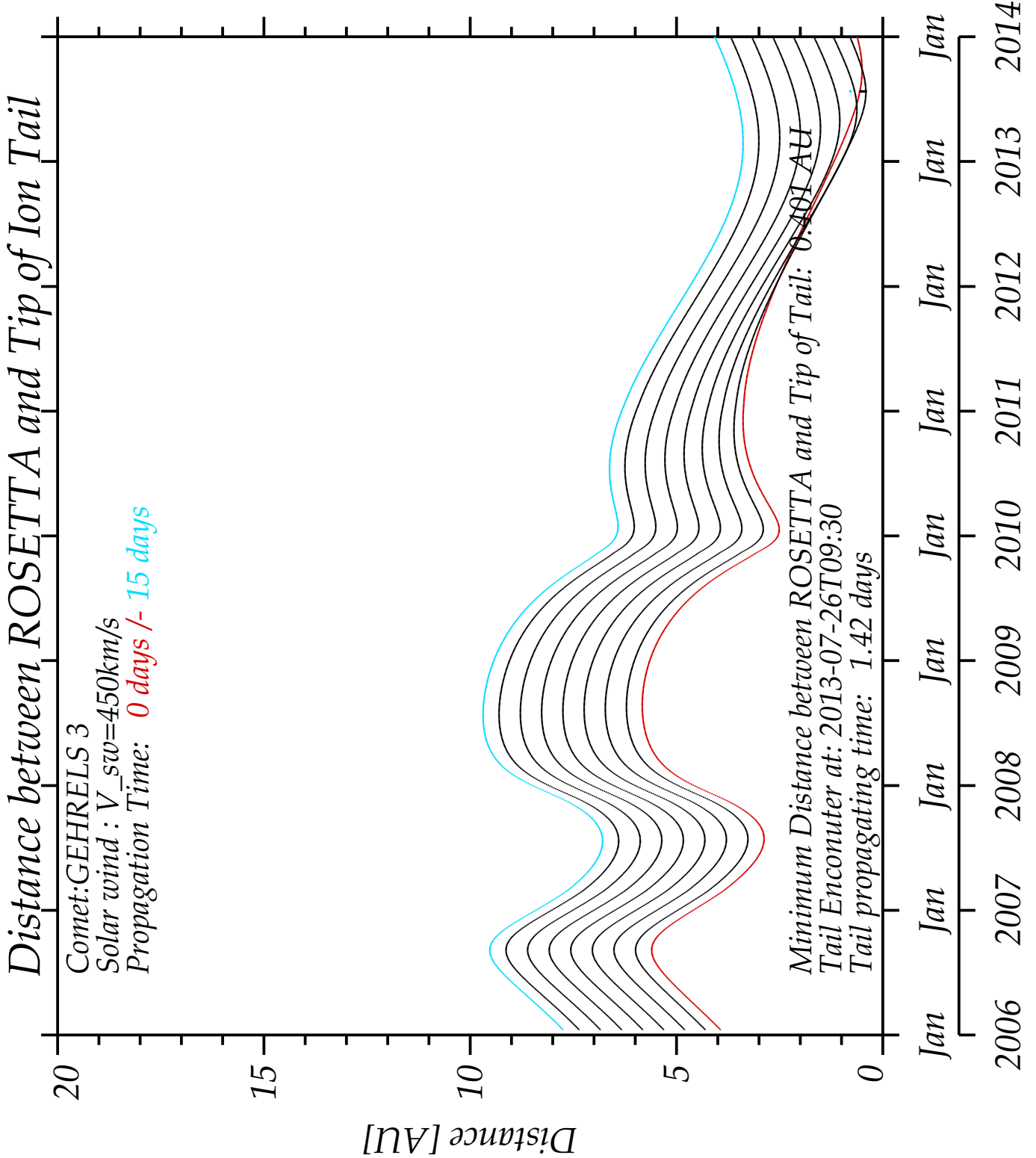


Figure 167: Minimum Distances: ROSETTA - GEHRELS 3

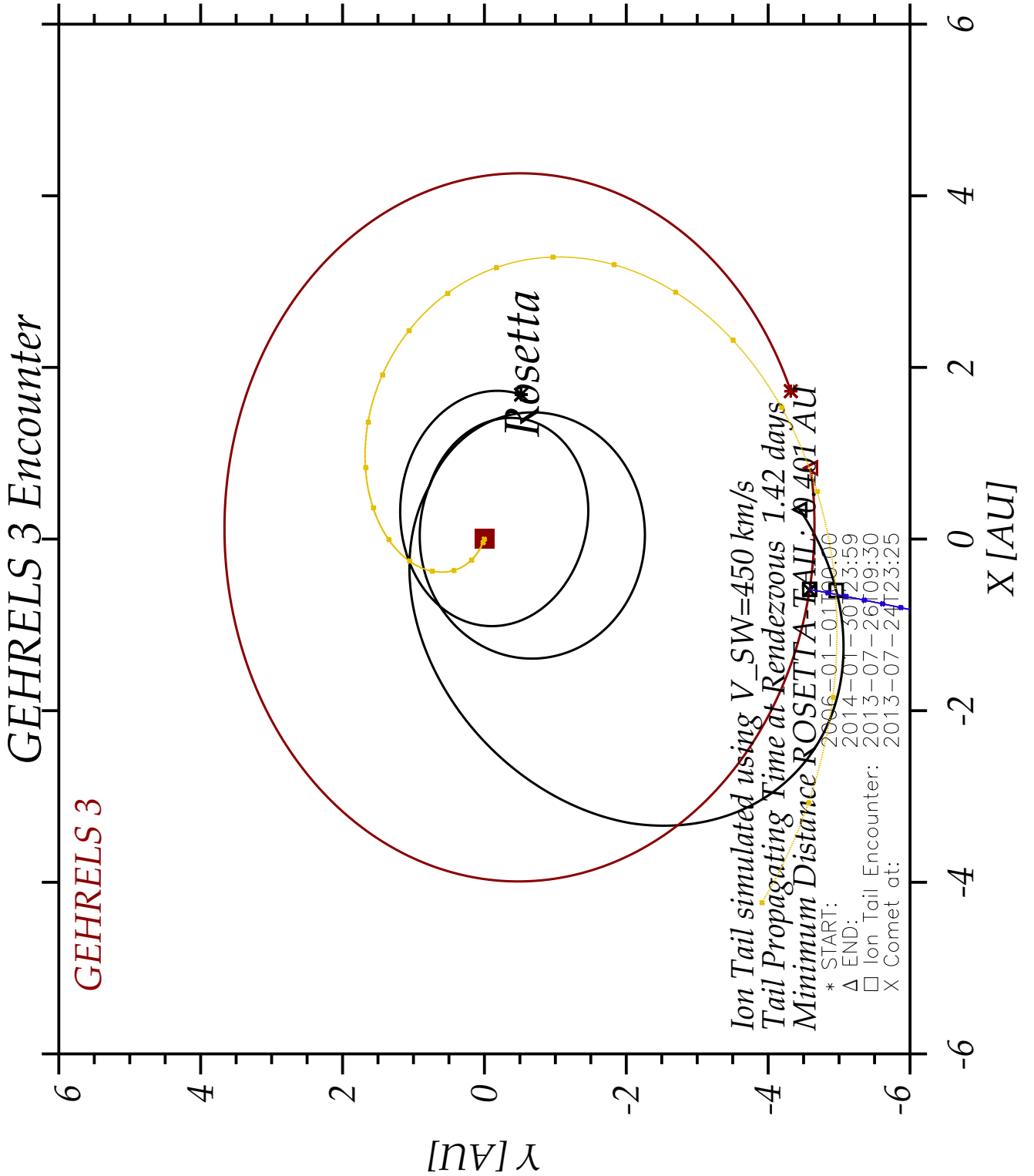


Figure 168: Overview: ROSETTA - GEHRELS 3

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87 Comet 83P/RUSSELL 1

Comet: 83P/RUSSELL 1
No Encounter below 0.2000AU

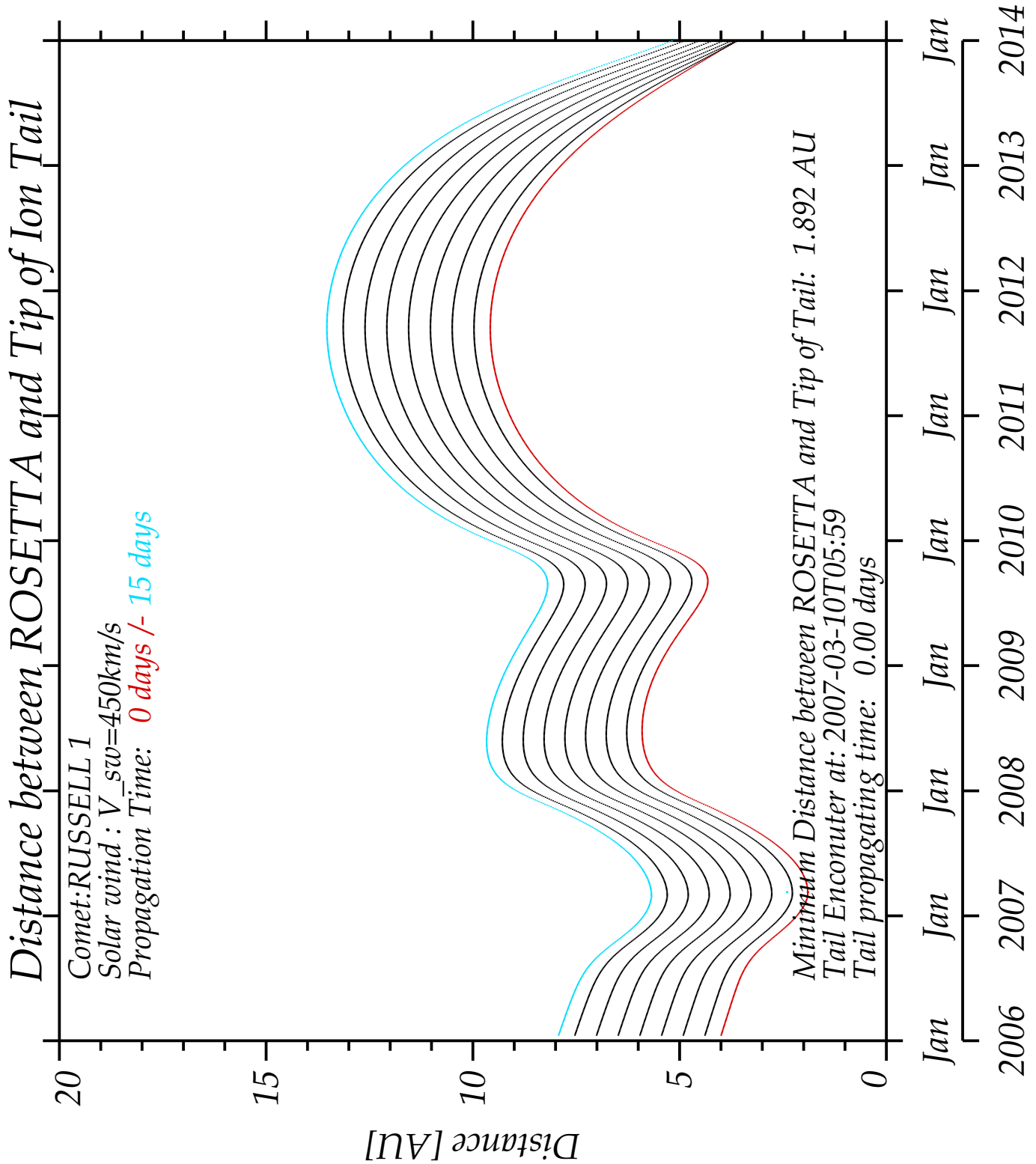


Figure 169: Minimum Distances: ROSETTA - RUSSELL 1

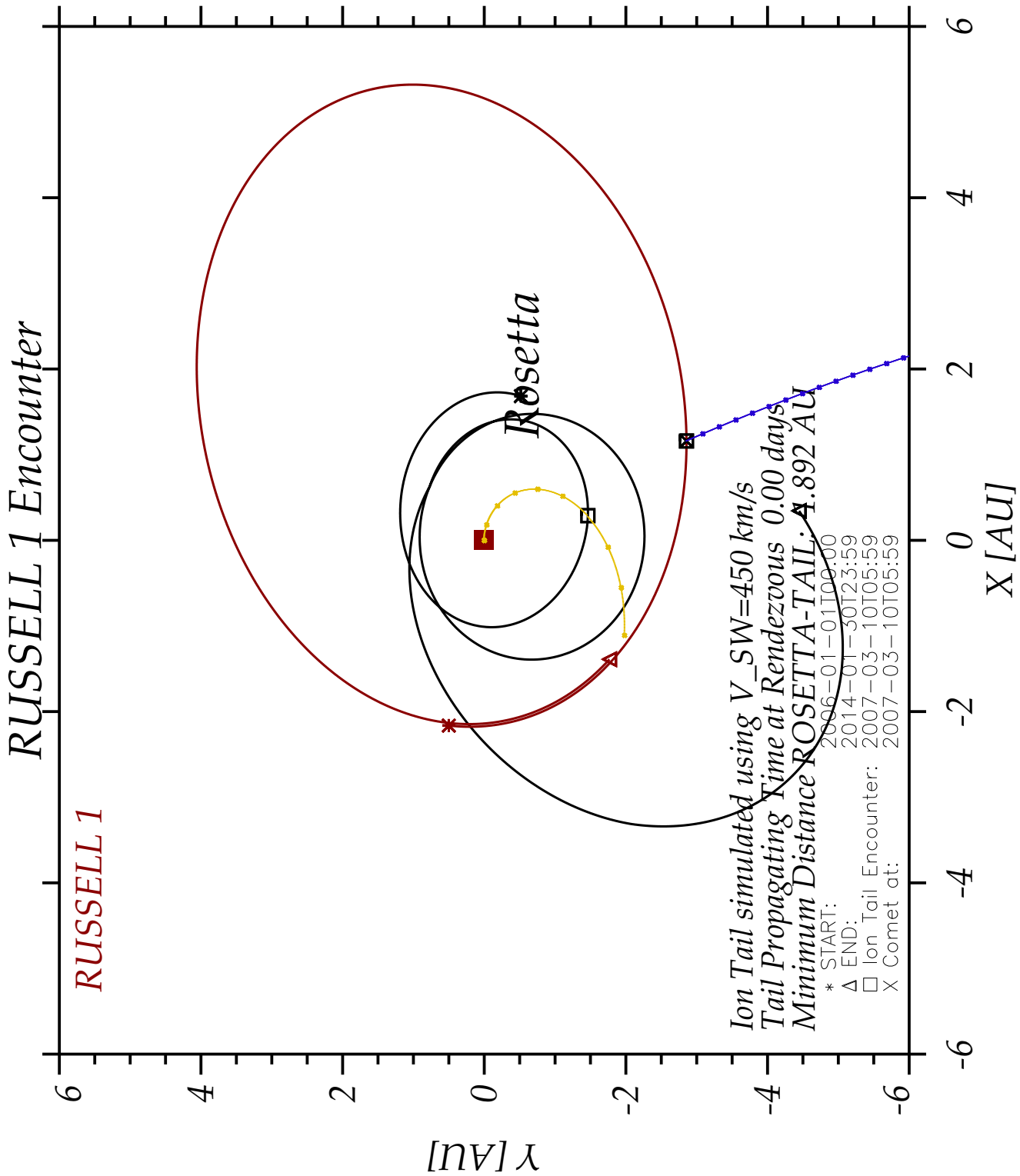


Figure 170: Overview: ROSETTA - RUSSELL 1

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88 Comet 84P/GICLAS

Comet: 84P/GICLAS
No Encounter below 0.2000AU

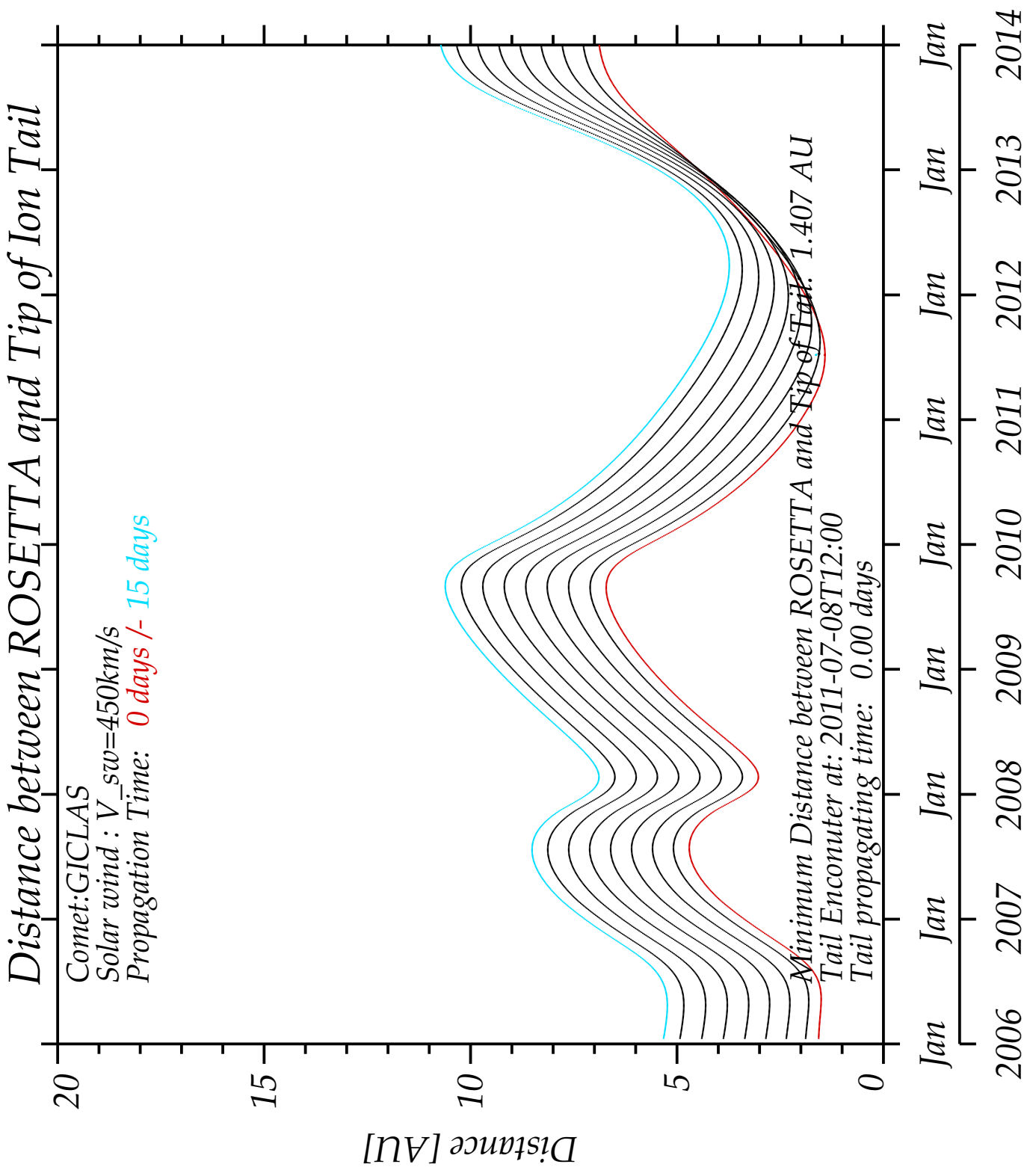


Figure 171: Minimum Distances: ROSETTA - GICLAS

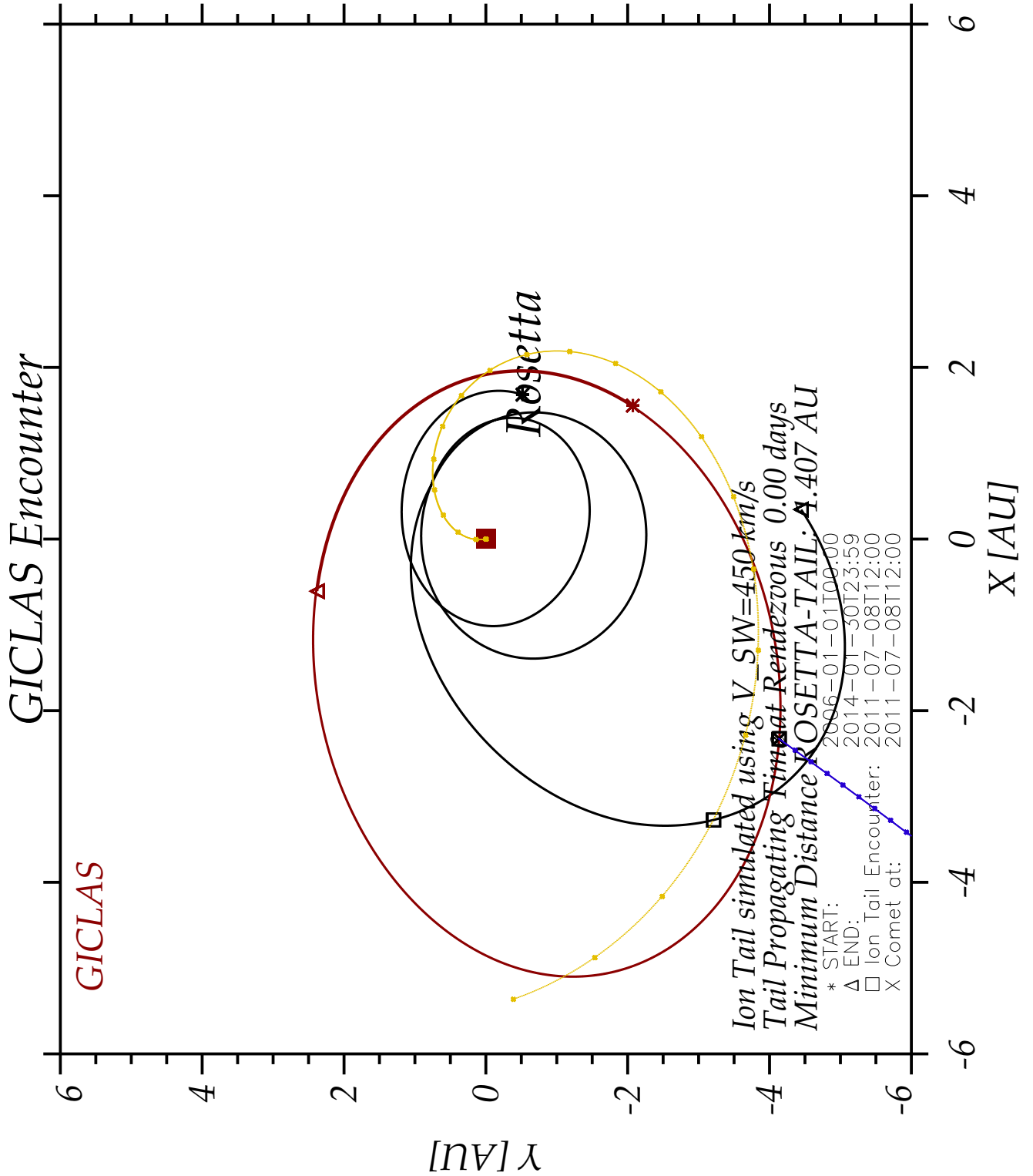


Figure 172: Overview: ROSETTA - GICLAS

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89 Comet 85P/BOETHIN

Comet: 85P/BOETHIN
No Encounter below 0.2000AU

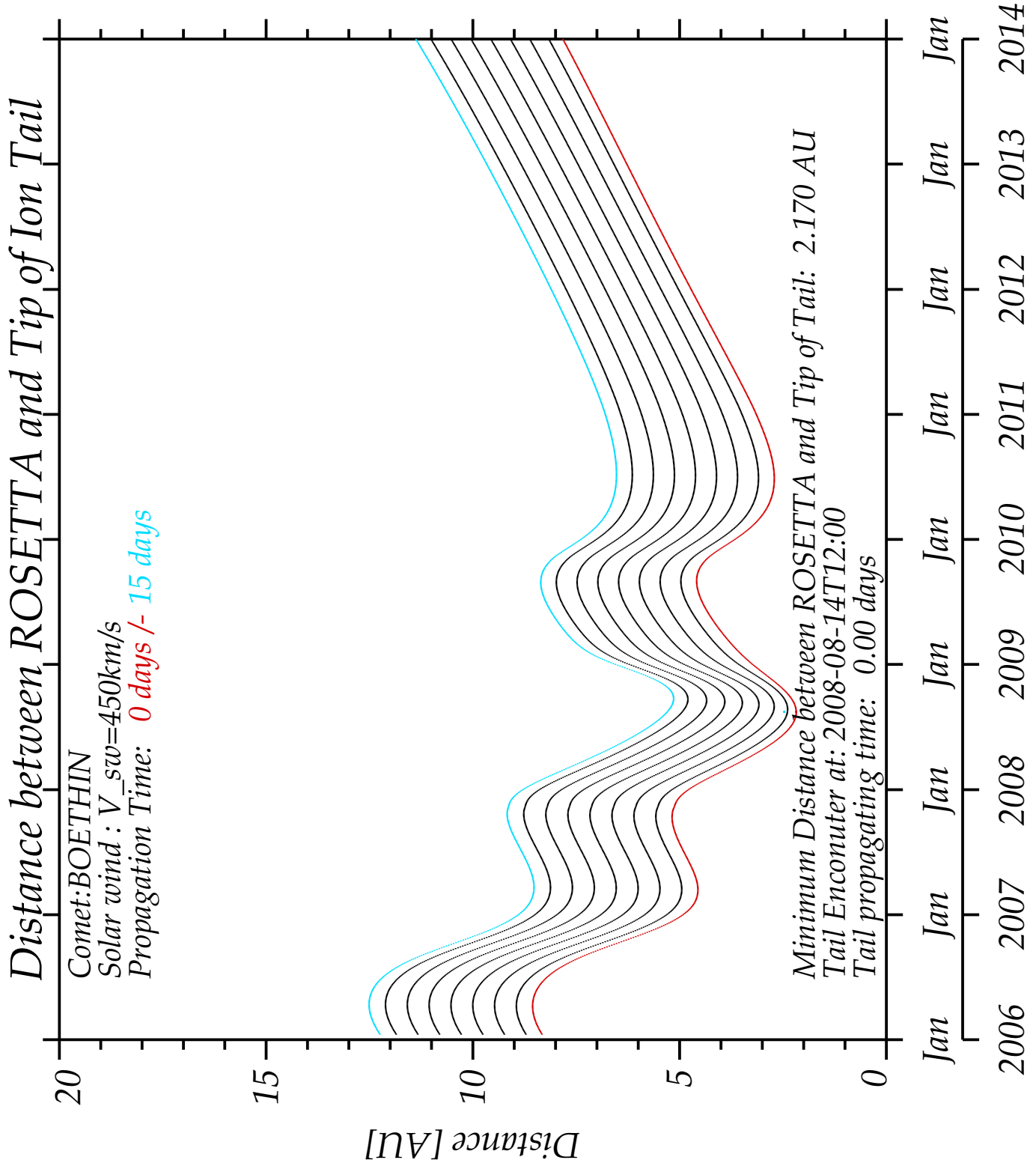


Figure 173: Minimum Distances: ROSETTA - BOETHIN

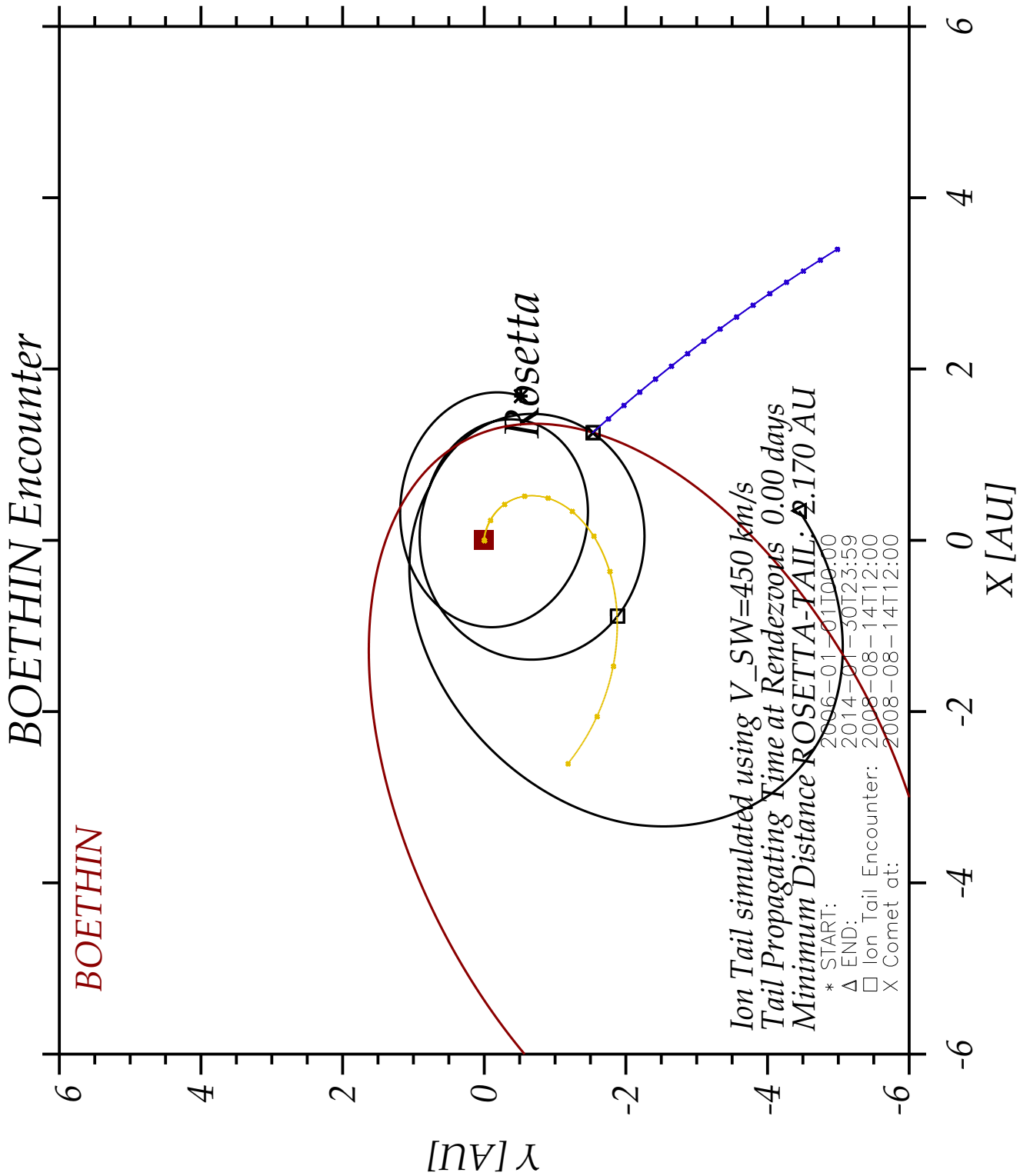


Figure 174: Overview: ROSETTA - BOETHIN

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90 Comet 86P/WILD 3

Comet: 86P/WILD 3
No Encounter below 0.2000AU

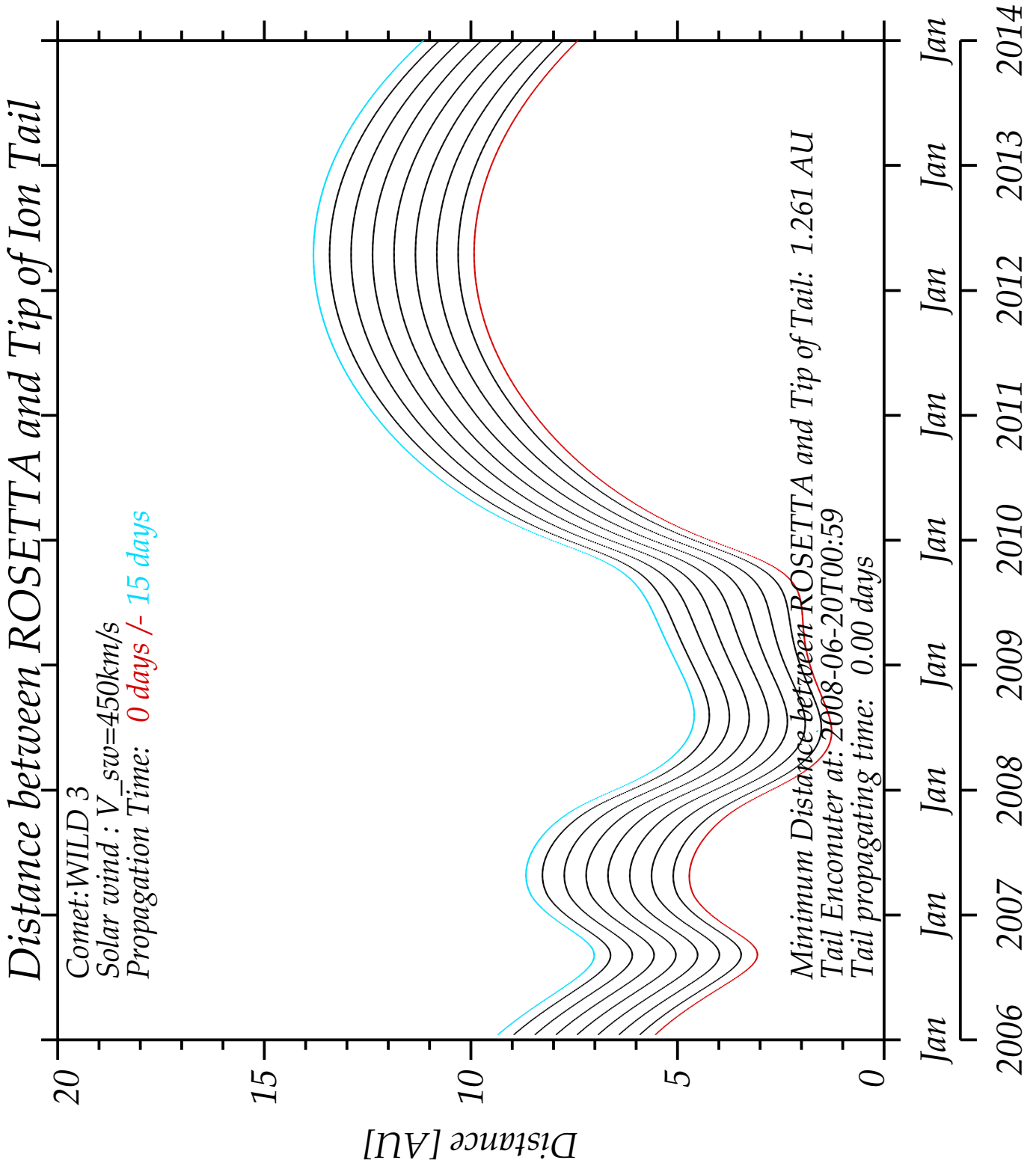


Figure 175: Minimum Distances: ROSETTA - WILD 3

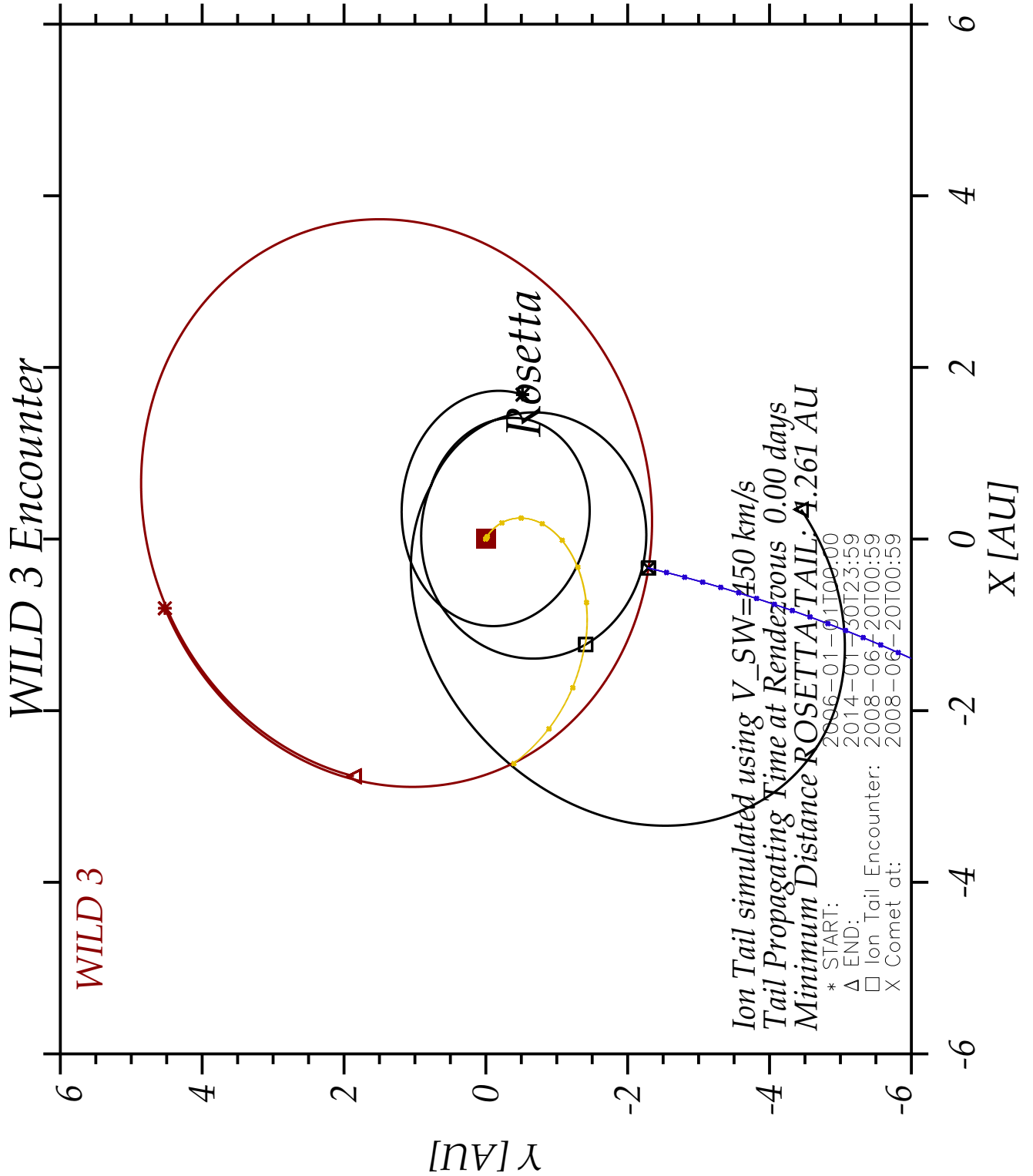


Figure 176: Overview: ROSETTA - WILD 3

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91 Comet 87P/BUS

Comet: 87P/BUS
No Encounter below 0.2000AU

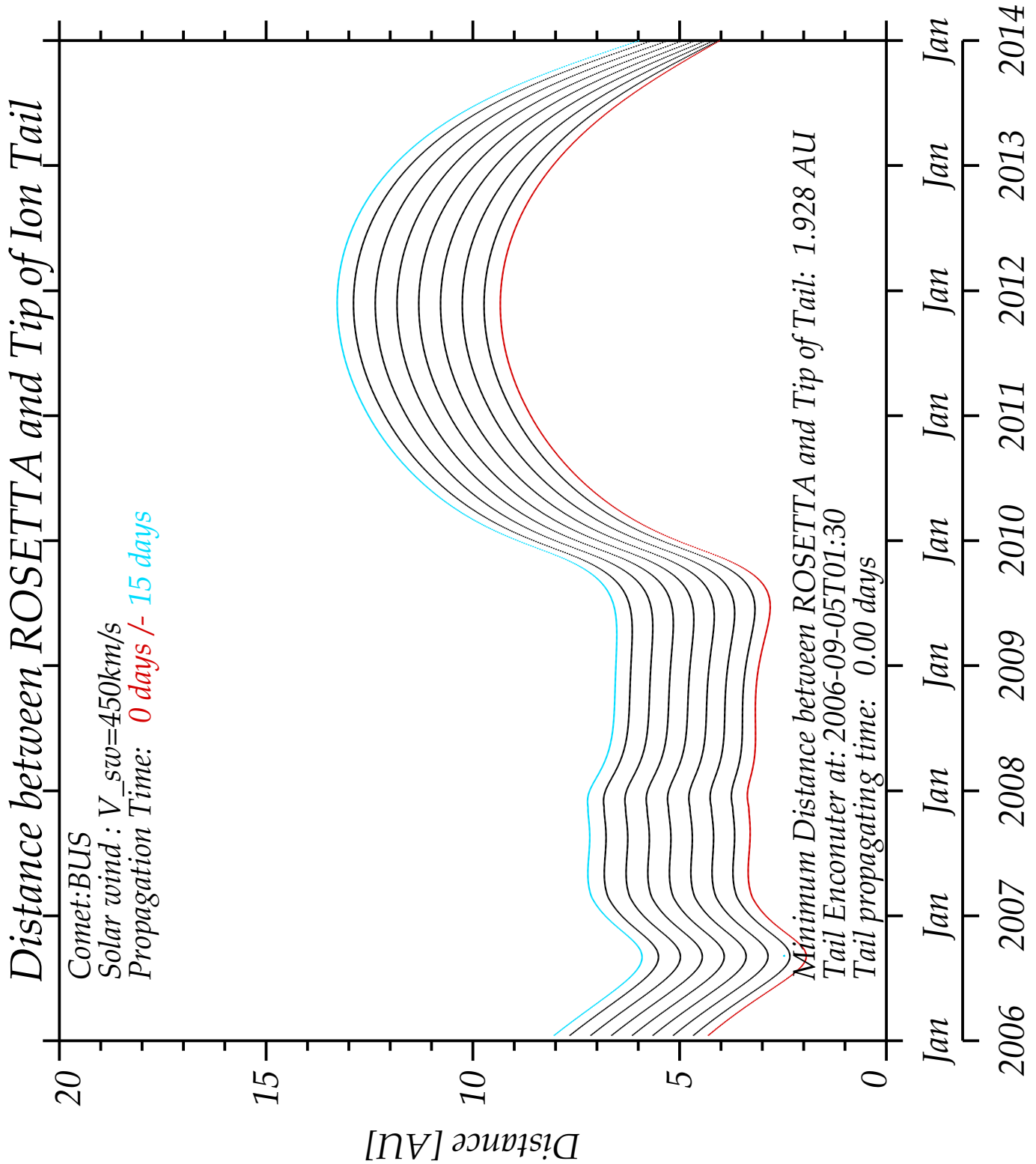


Figure 177: Minimum Distances: ROSETTA - BUS

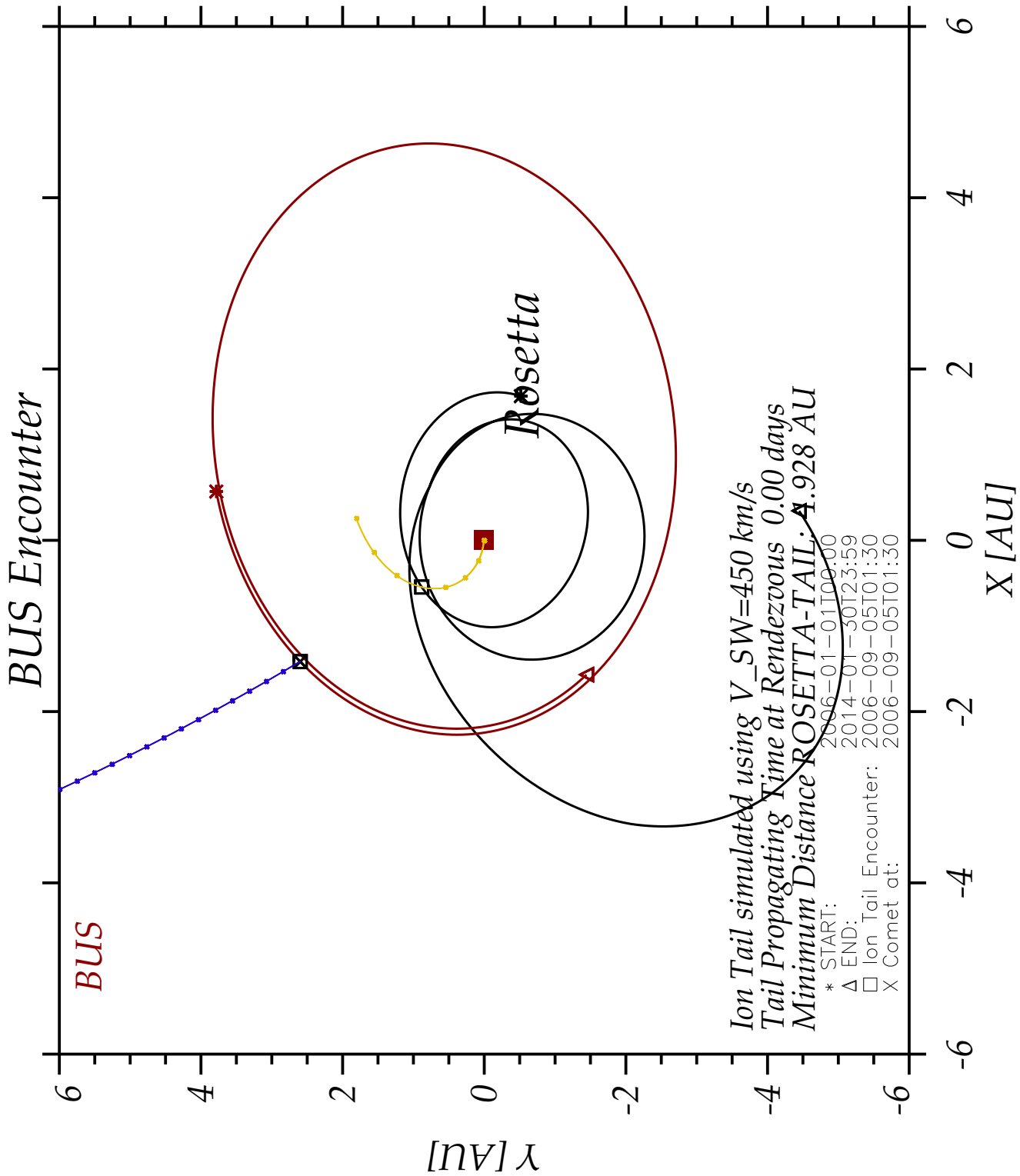


Figure 178: Overview: ROSETTA - BUS

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92 Comet 88P/HOWELL

Comet: 88P/HOWELL
No Encounter below 0.2000AU

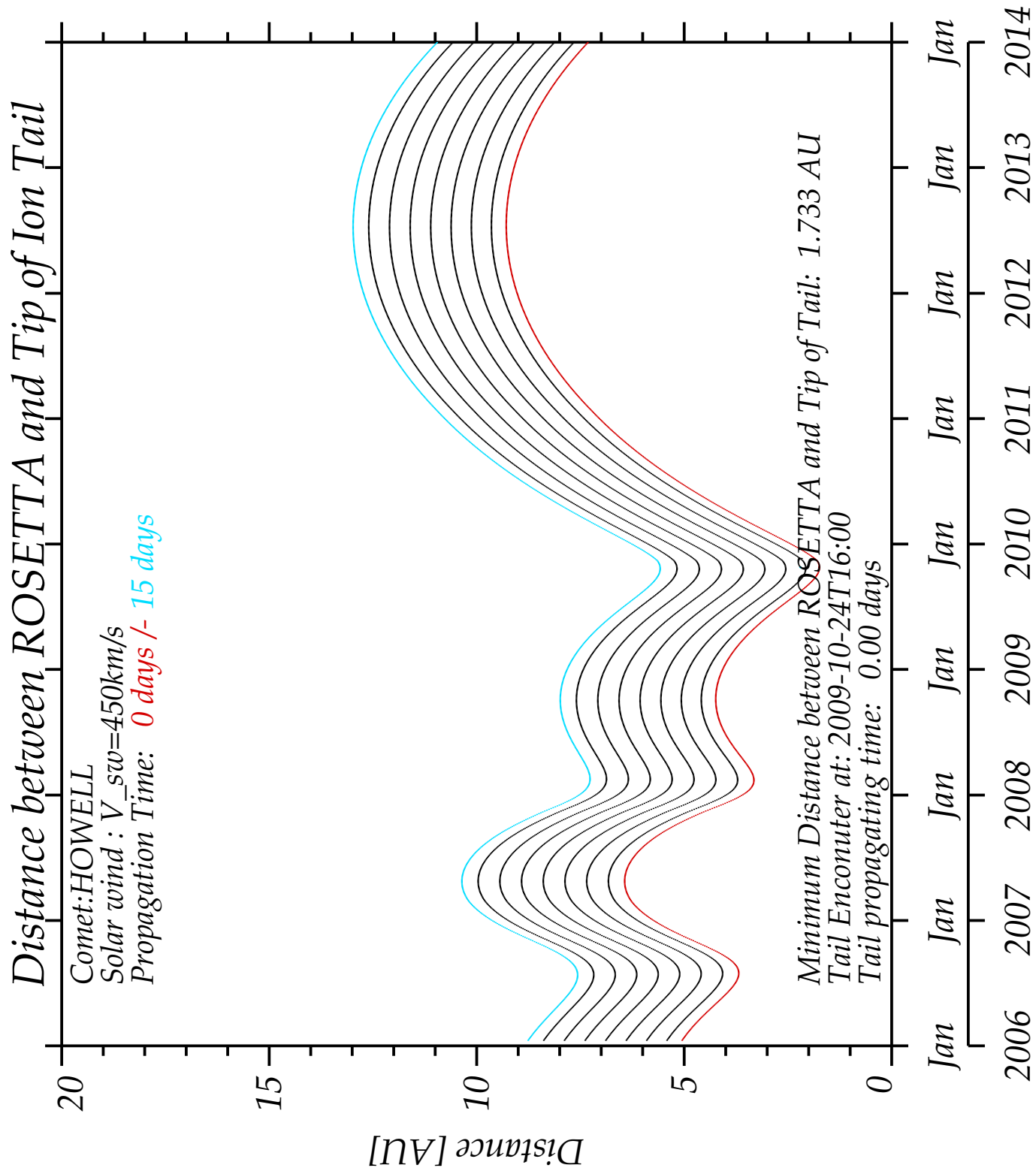


Figure 179: Minimum Distances: ROSETTA - HOWELL

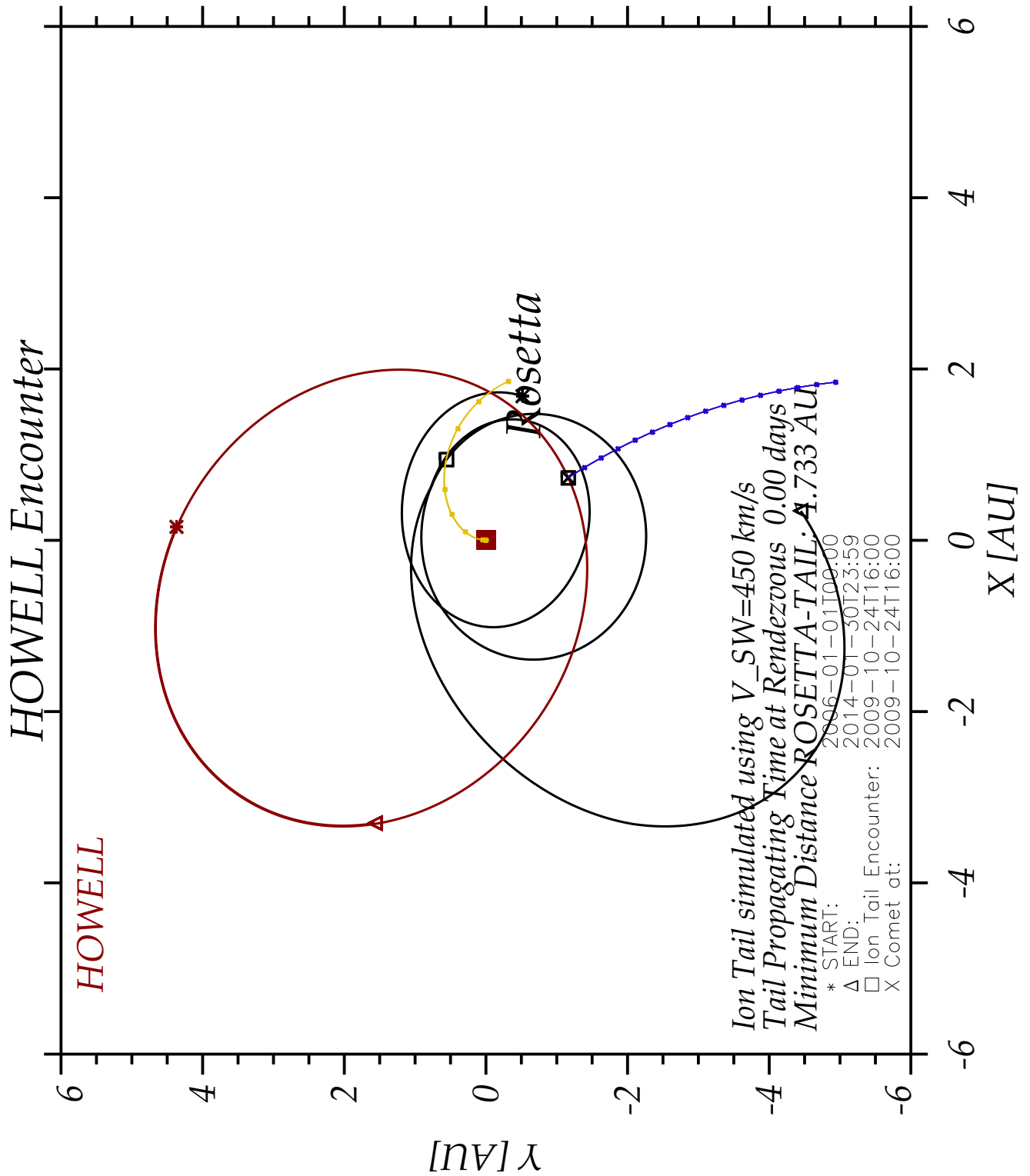


Figure 180: Overview: ROSETTA - HOWELL

<p style="text-align: center;">R O S E T T A</p>	<p>Document: RO-IGEP-TR-0020 Issue: 1 Revision: 2 Date: 2006-10-25 Page: 272</p>
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93 Comet 89P/RUSSELL 2

<p>Comet: 89P/RUSSELL 2</p>
<p>No Encounter below 0.2000AU</p>

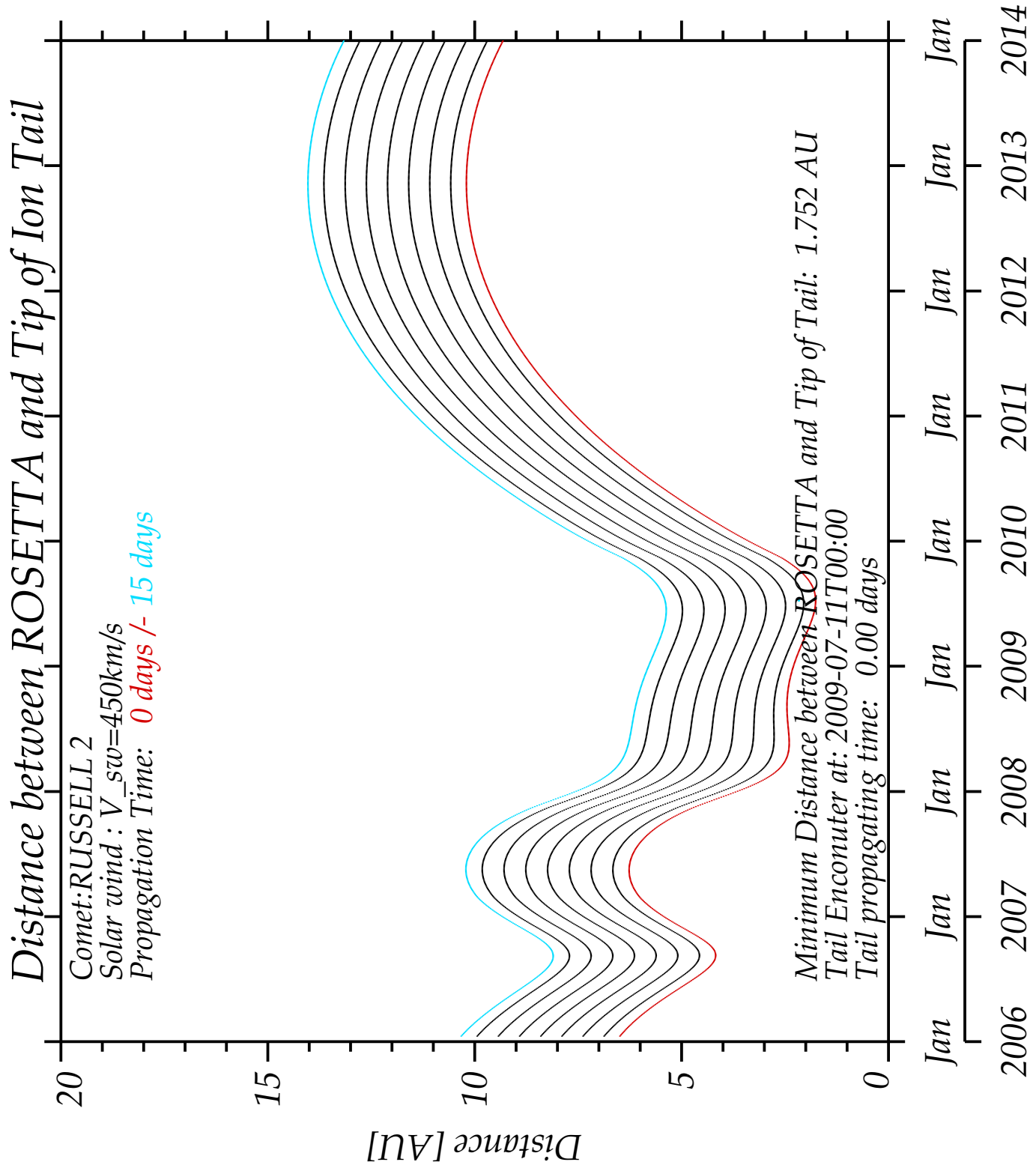


Figure 181: Minimum Distances: ROSETTA - RUSSELL 2

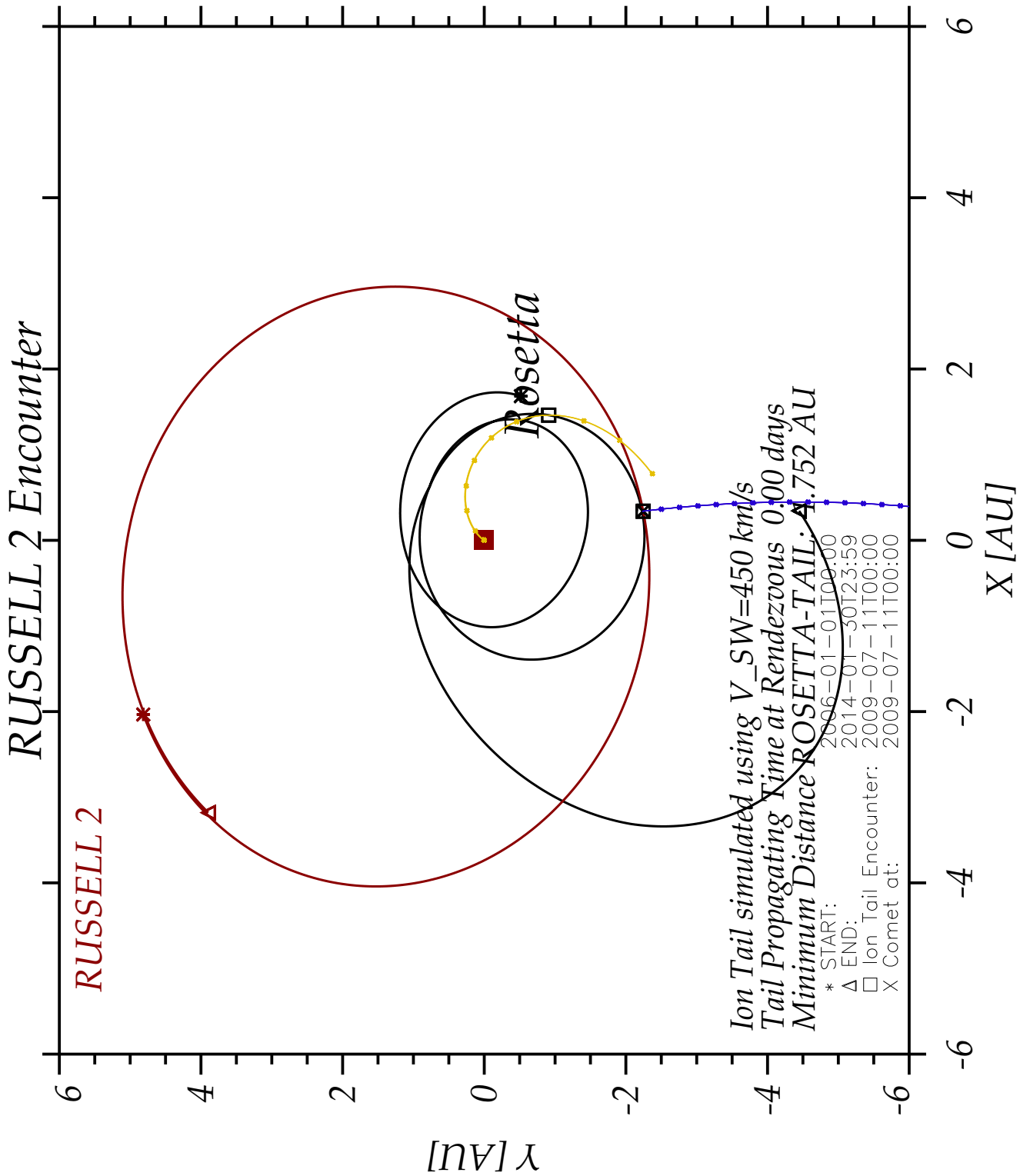


Figure 182: Overview: ROSETTA - RUSSELL 2

<p style="text-align: center;">R O S E T T A</p>	<p>Document: RO-IGEP-TR-0020 Issue: 1 Revision: 2</p>
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94 Comet 90P/GEHRELS 1

<p>Comet: 90P/GEHRELS 1</p>
<p>No Encounter below 0.2000AU</p>

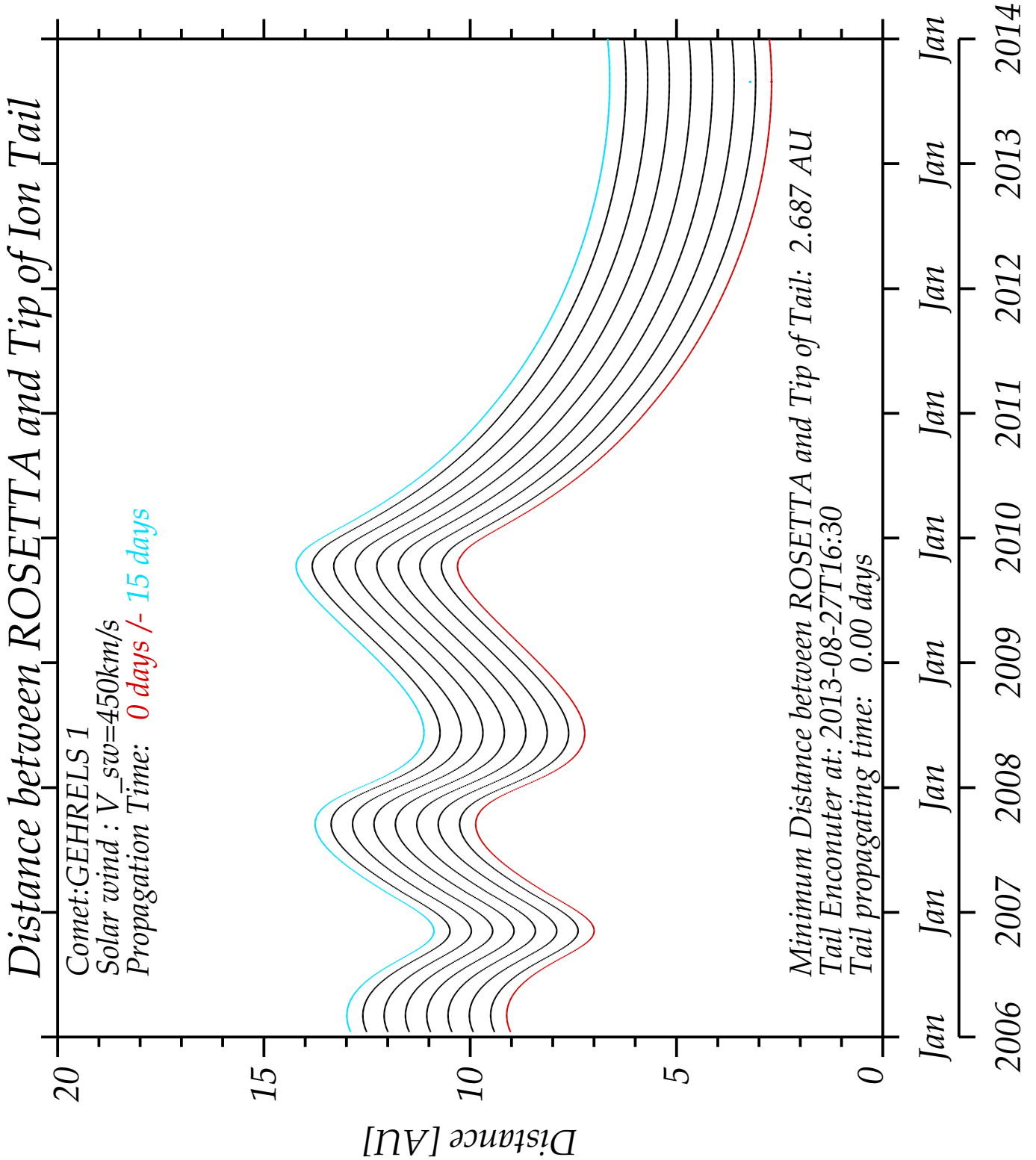


Figure 183: Minimum Distances: ROSETTA - GEHRELS 1

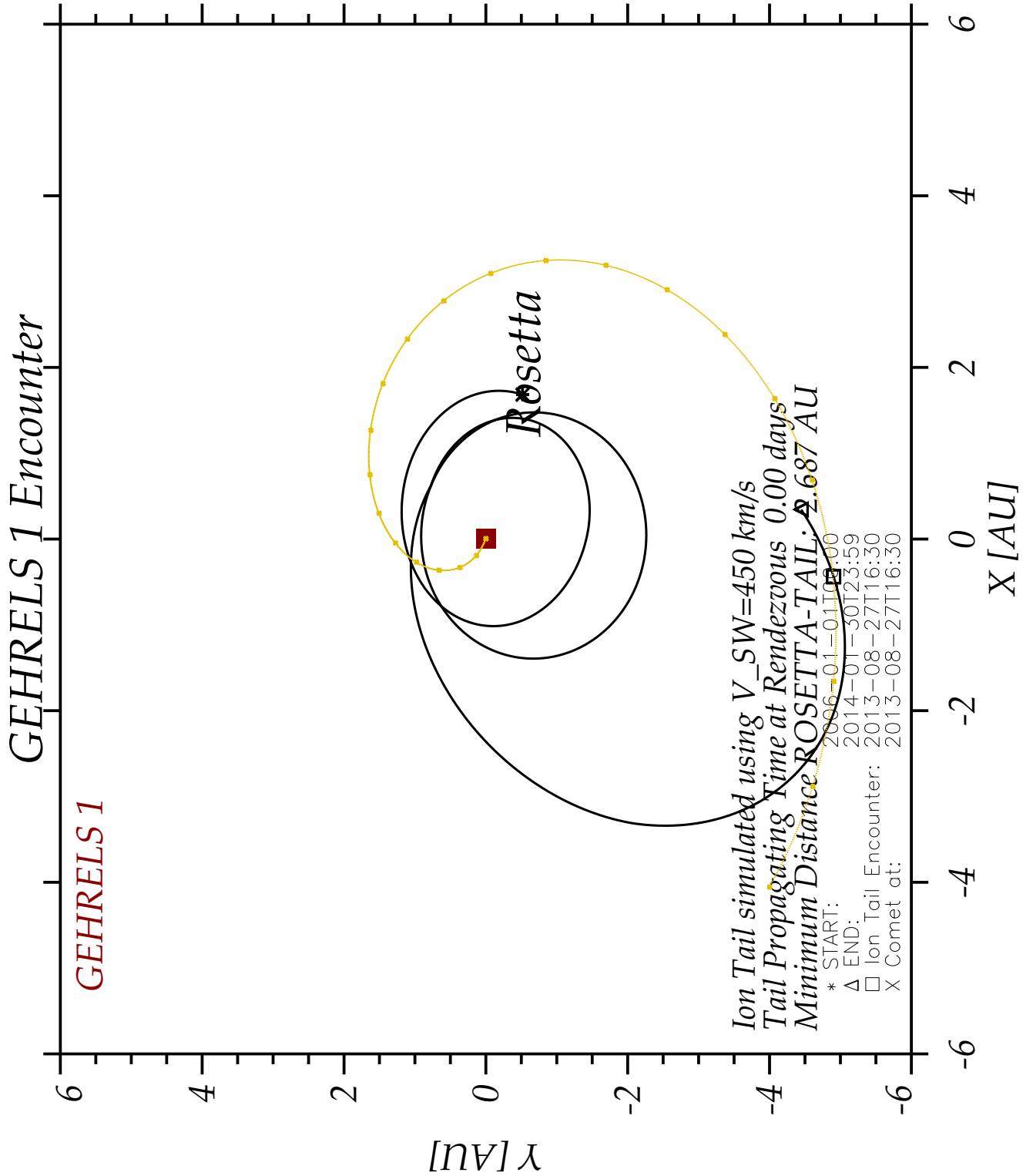


Figure 184: Overview: ROSETTA - GEHRELS 1

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95 Comet 91P/RUSSELL 3

Comet: 91P/RUSSELL 3
No Encounter below 0.2000AU

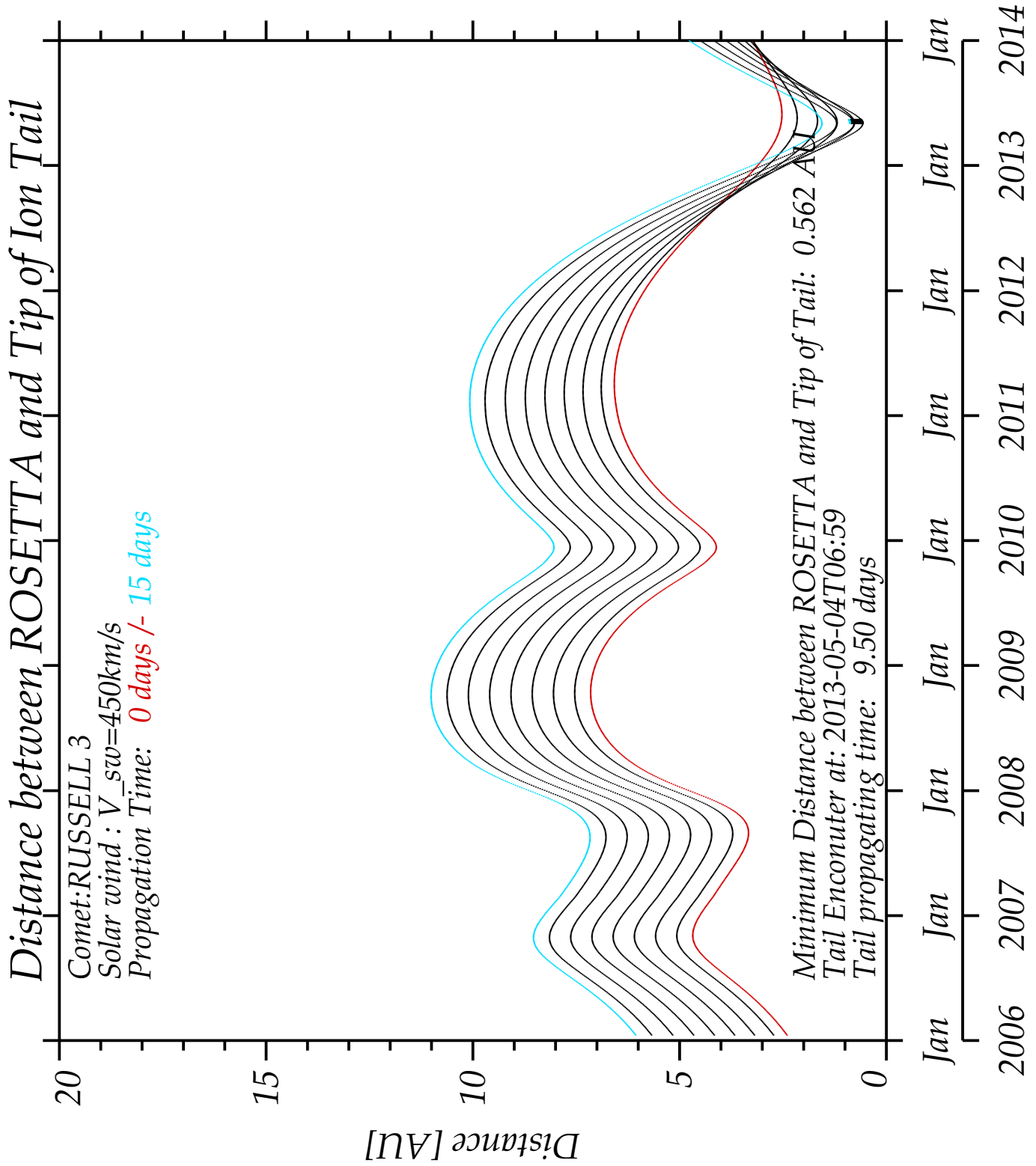


Figure 185: Minimum Distances: ROSETTA - RUSSELL 3

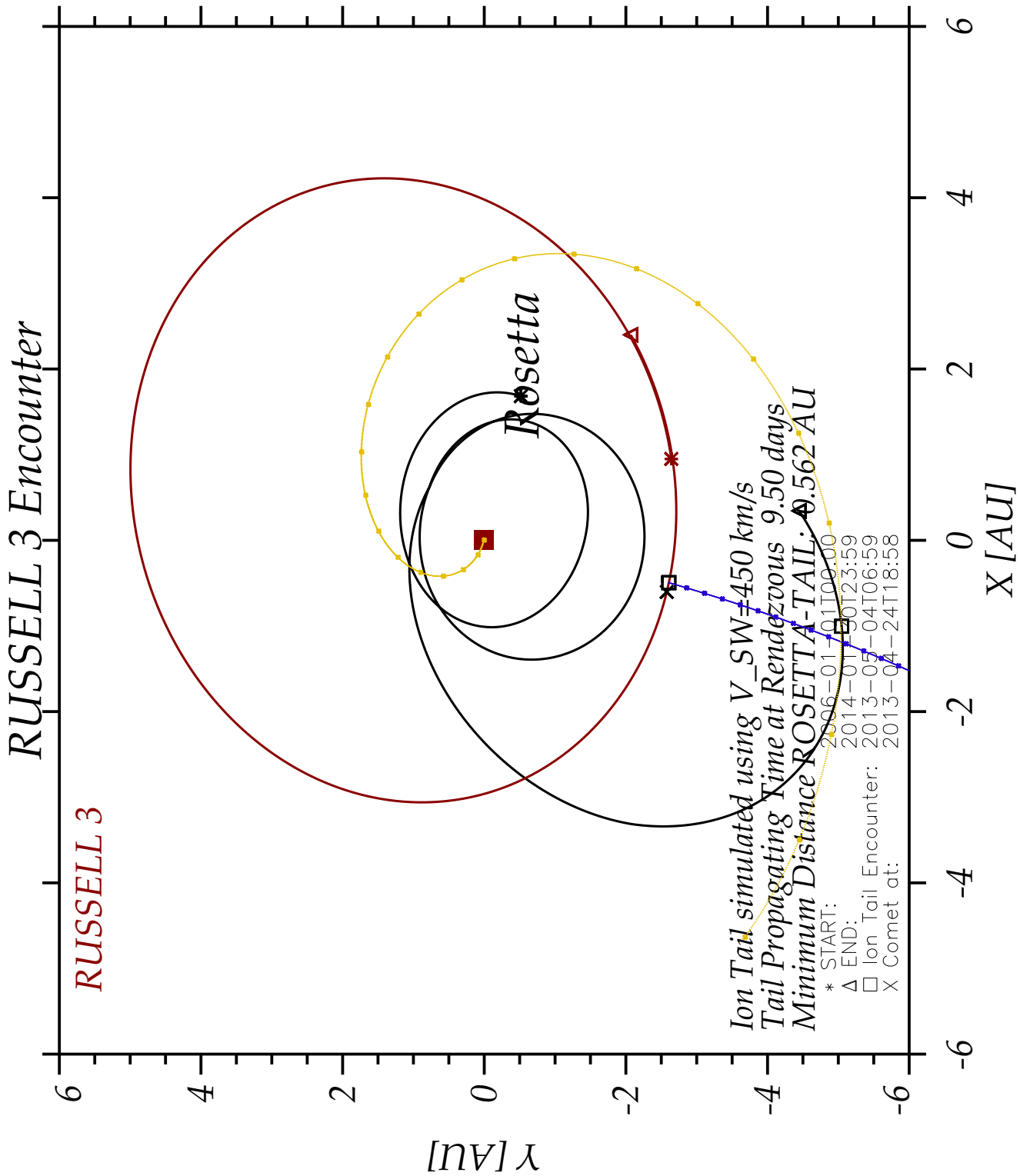


Figure 186: Overview: ROSETTA - RUSSELL 3

<p style="text-align: center;">R O S E T T A</p>	<p>Document: RO-IGEP-TR-0020 Issue: 1 Revision: 2</p>
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96 Comet 92P/SANGUIN

<p>Comet: 92P/SANGUIN</p>
<p>No Encounter below 0.2000AU</p>

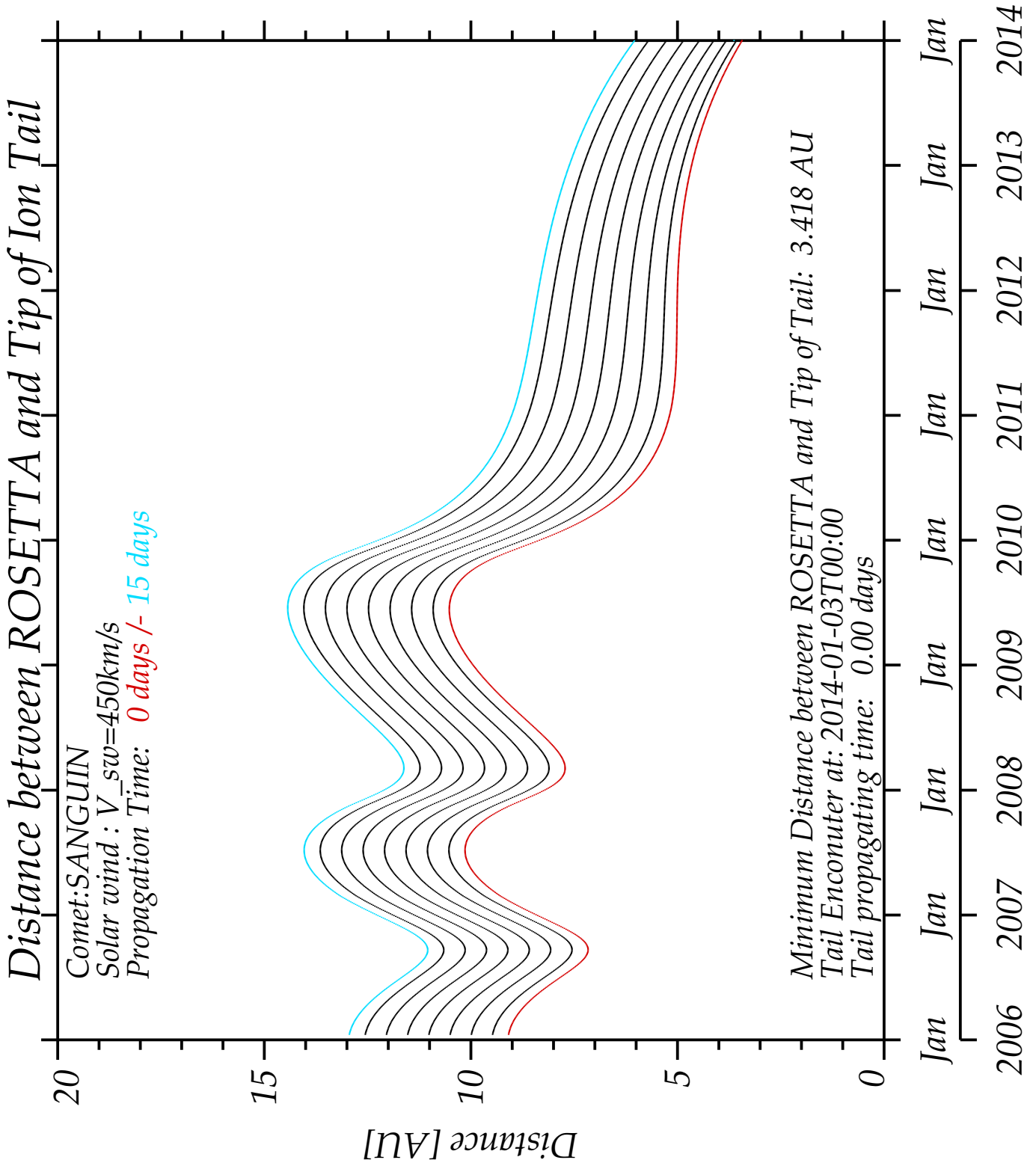


Figure 187: Minimum Distances: ROSETTA - SANGUIN

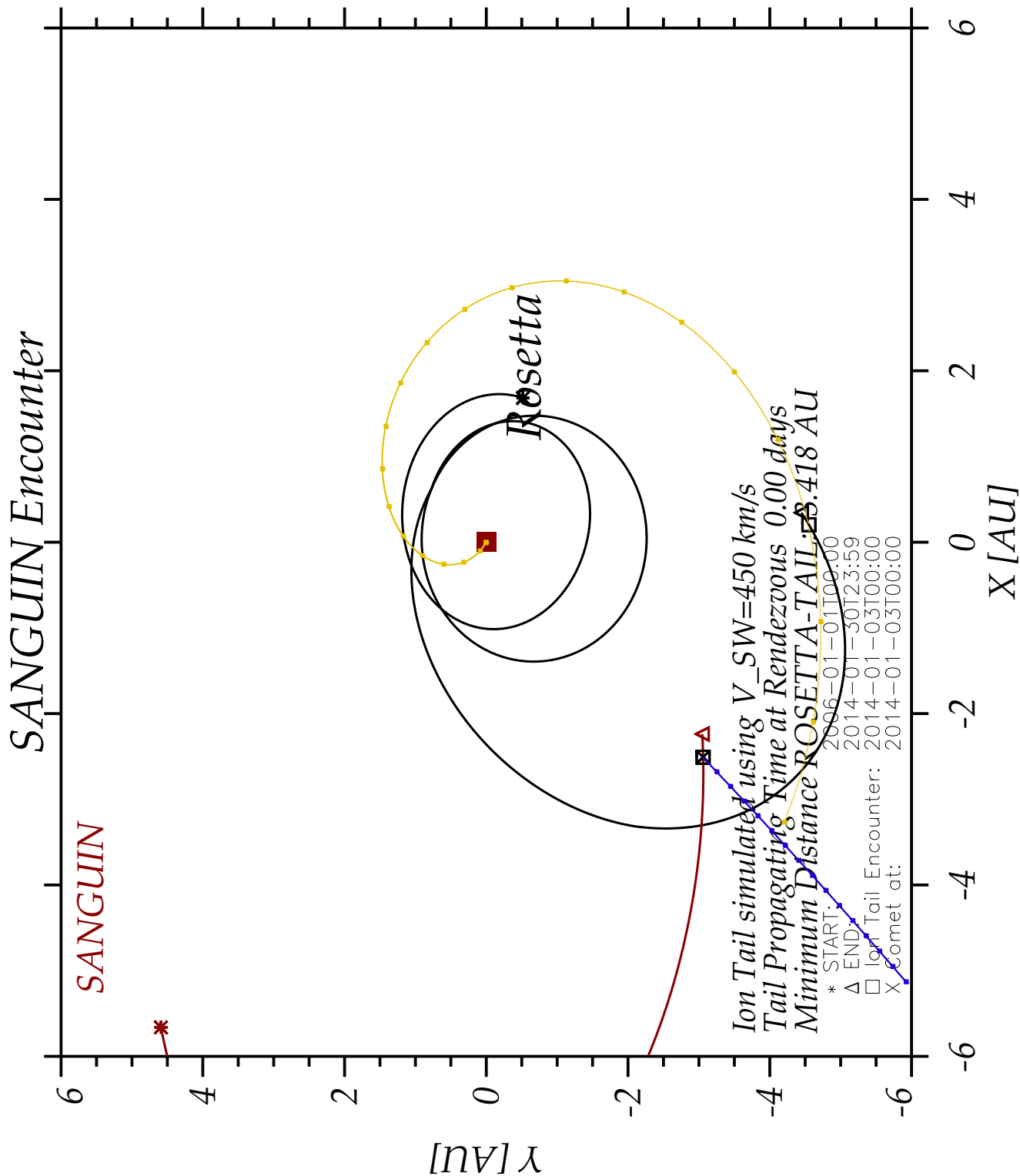


Figure 188: Overview: ROSETTA - SANGUIN

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97 Comet 93P/LOVAS 1

Comet: 93P/LOVAS 1
No Encounter below 0.2000AU

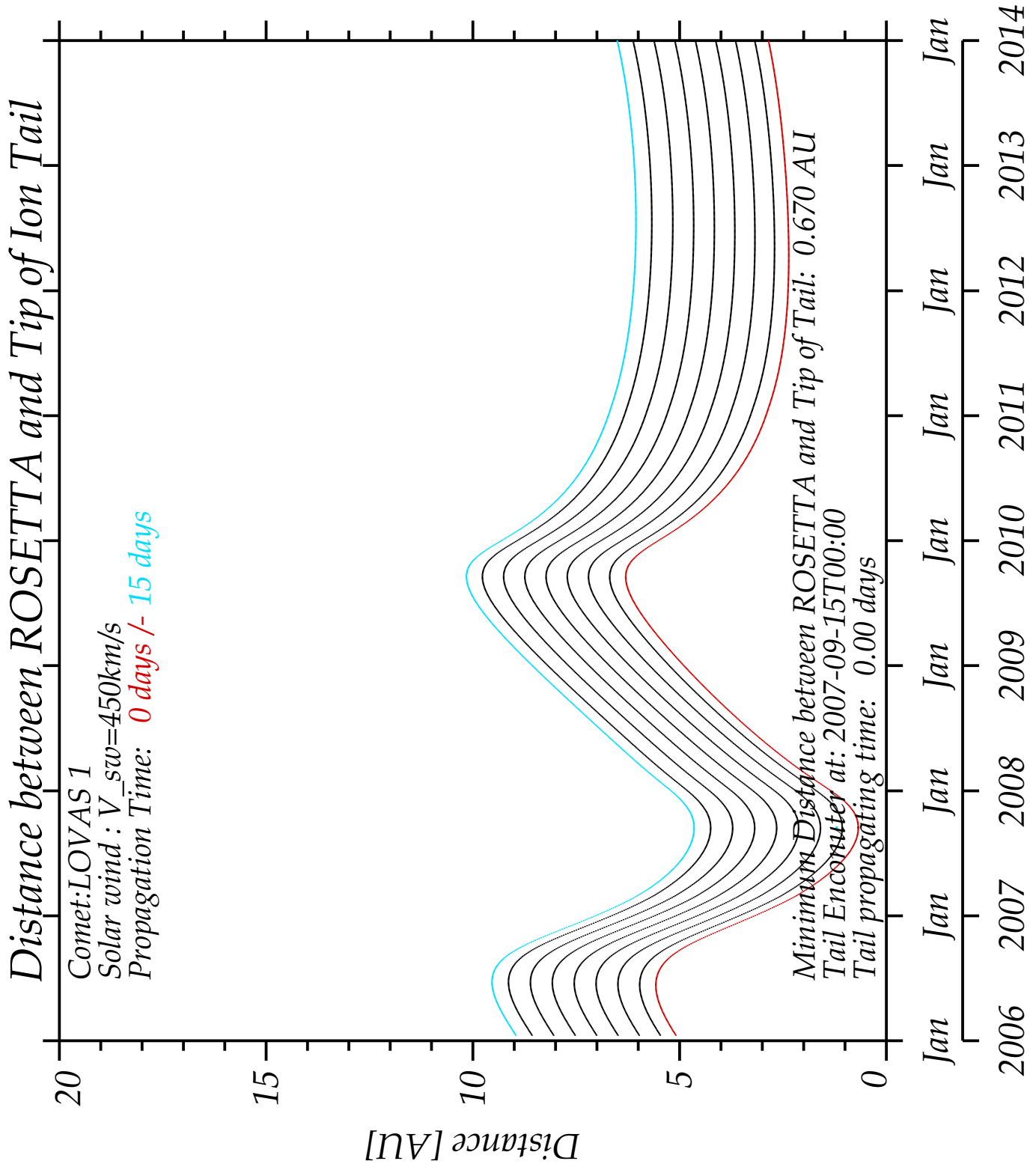


Figure 189: Minimum Distances: ROSETTA - LOVAS 1

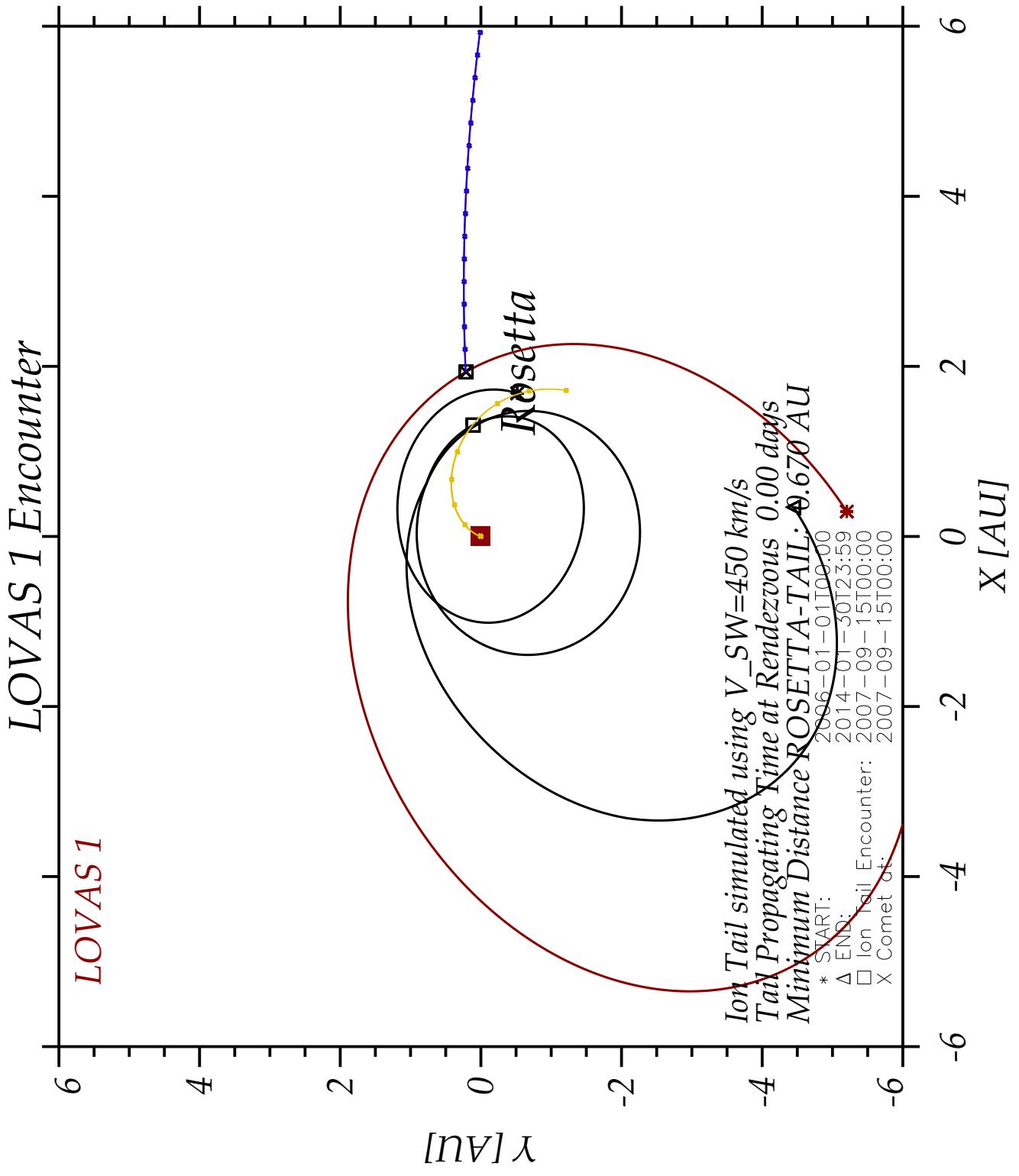


Figure 190: Overview: ROSETTA - LOVAS 1

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98 Comet 94P/RUSSELL 4

Comet:	94P/RUSSELL 4				
Date of Encounter:	2010-05-09T11:59				
Minimum Distance					
ROSETTA/Ion Tail:	0.1110				AU
Position of ROSETTA	-2.2303	0.1422	0.1392	2.2392	AU, [x,y,z],r
Position of COMET:	-2.2532	0.0880	0.2338	2.2670	AU, [x,y,z],r
Velocity of ROSETTA	-15.57	-16.15	0.14	22.43	km/s, [vx,vy,vz],v
Velocity of COMET:	-2.45	-22.96	-0.56	23.10	km/s, [vx,vy,vz],v
Tail Intersection Angle:	48.5				deg
Velocity of ROSETTA					
normal to Tail:	16.80				km/s
Proagting Time					
of Tail	0.000				days

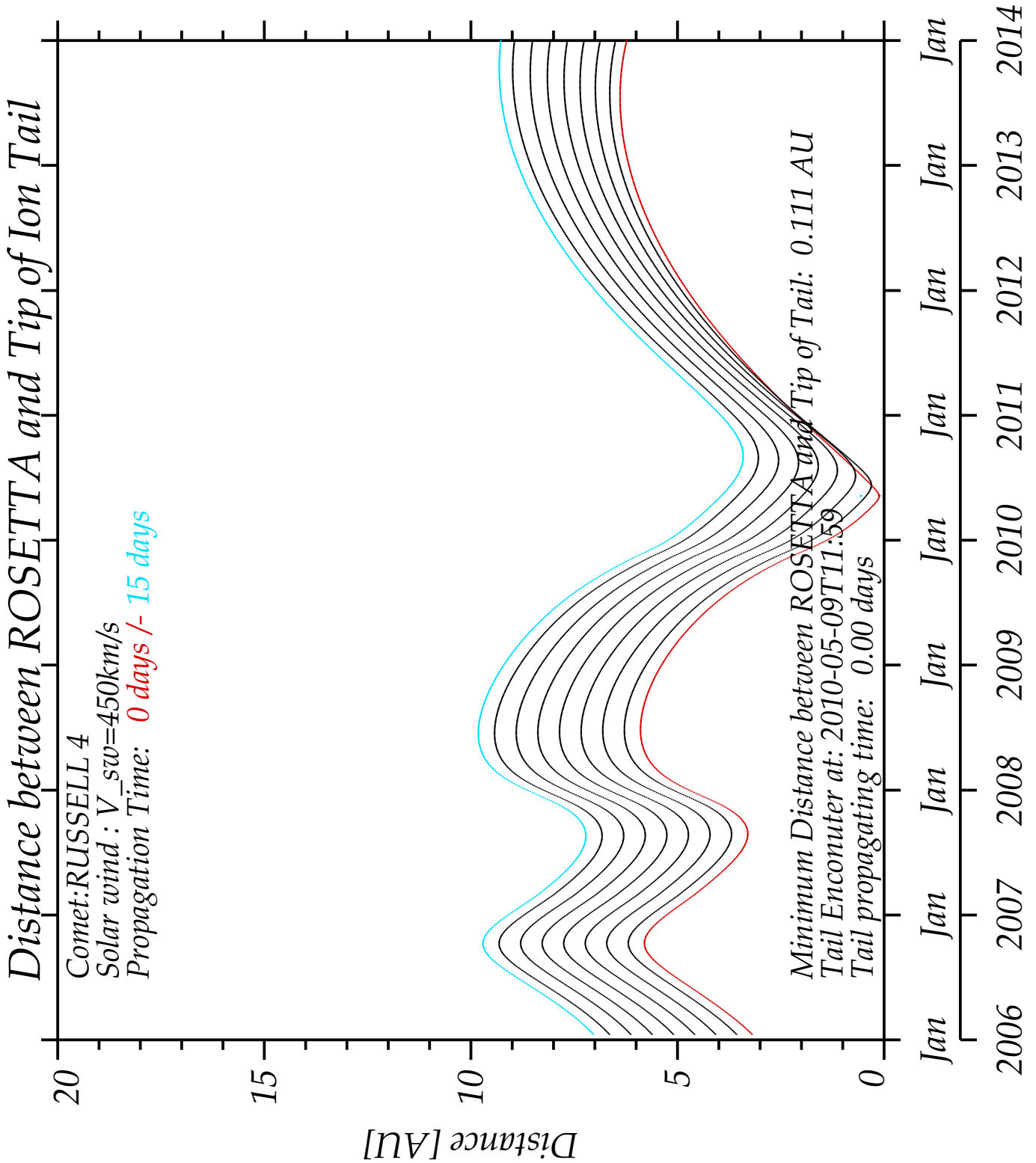


Figure 191: Minimum Distances: ROSETTA - RUSSELL 4

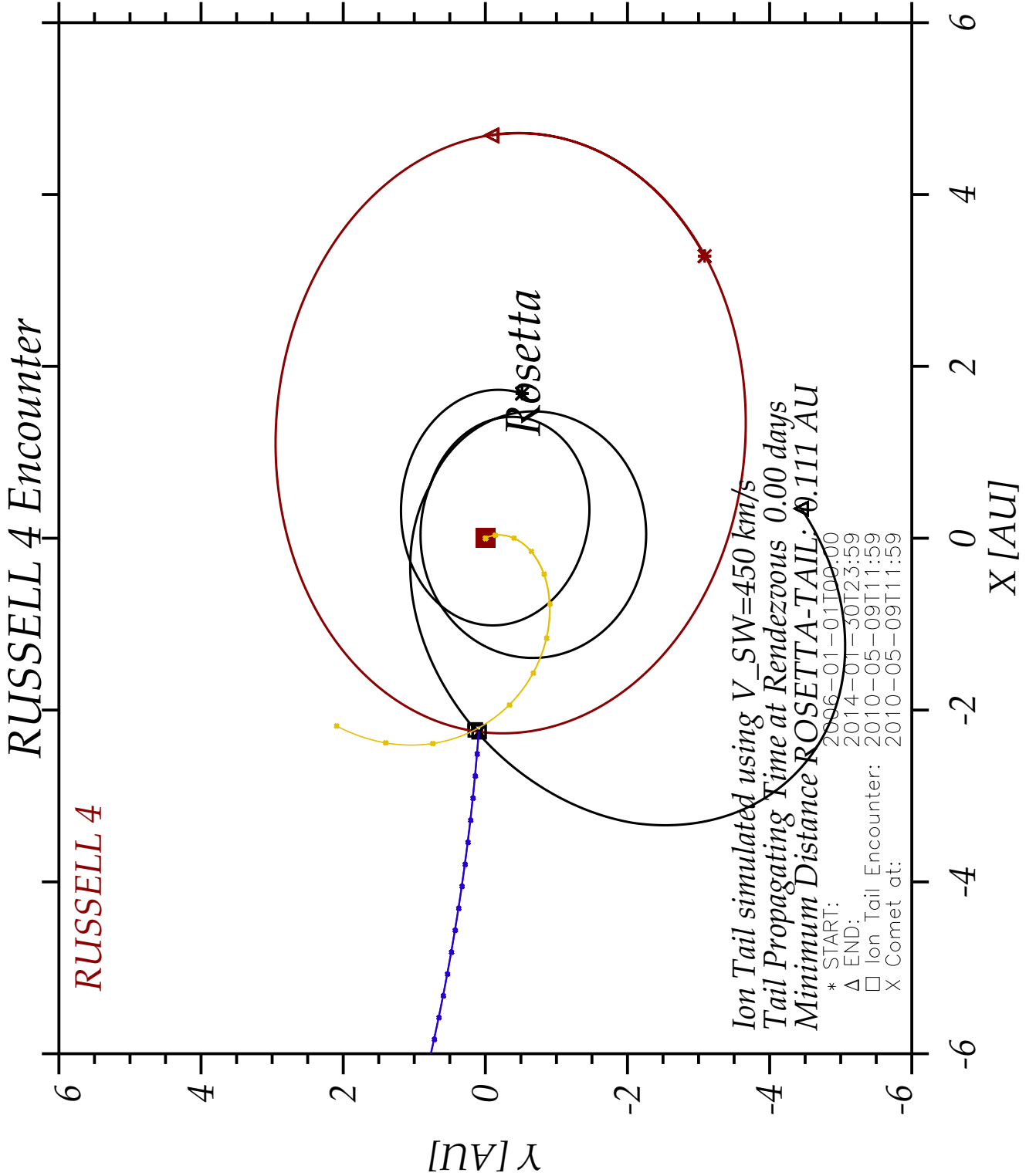


Figure 192: Overview: ROSETTA - RUSSELL 4

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99 Comet 95P/CHIRON

Comet: 95P/CHIRON
No Encounter below 0.2000AU

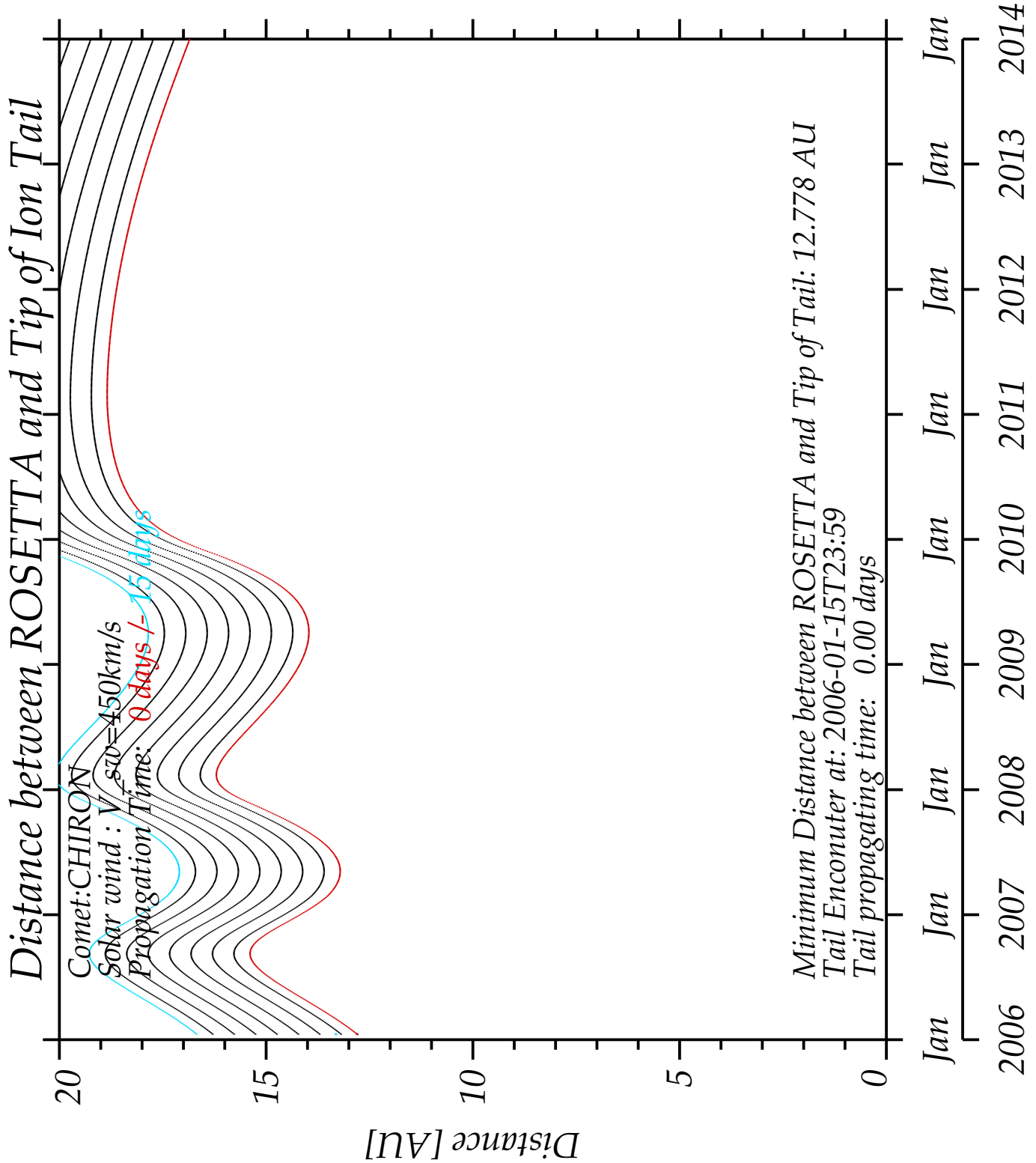


Figure 193: Minimum Distances: ROSETTA - CHIRON

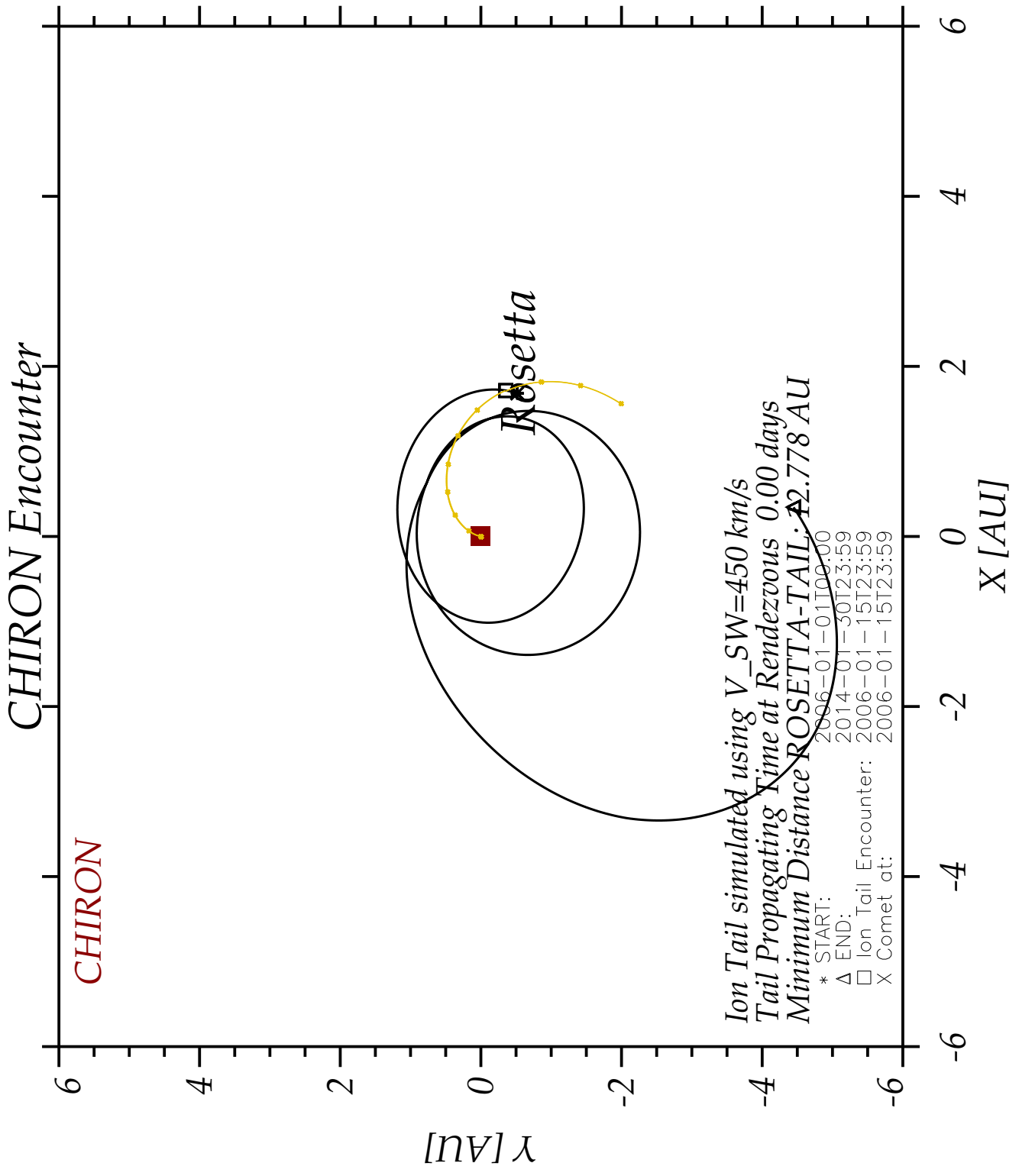


Figure 194: Overview: ROSETTA - CHIRON

<p style="text-align: center;">R O S E T T A</p>	<p>Document: RO-IGEP-TR-0020 Issue: 1 Revision: 2</p>
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100 Comet 96P/MACHHOLZ

<p>Comet: 96P/MACHHOLZ</p>
<p>No Encounter below 0.2000AU</p>

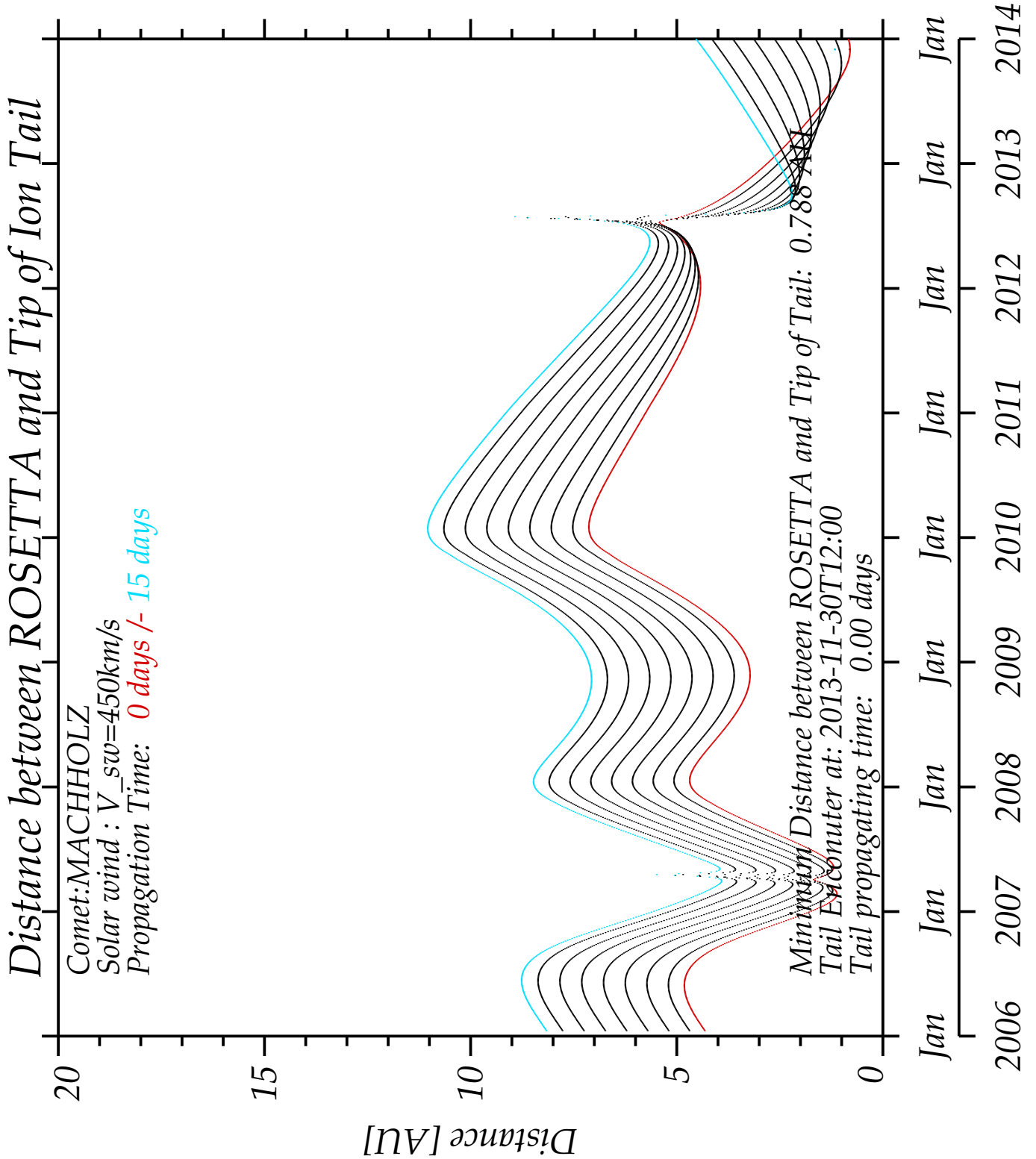


Figure 195: Minimum Distances: ROSETTA - MACHHOLZ

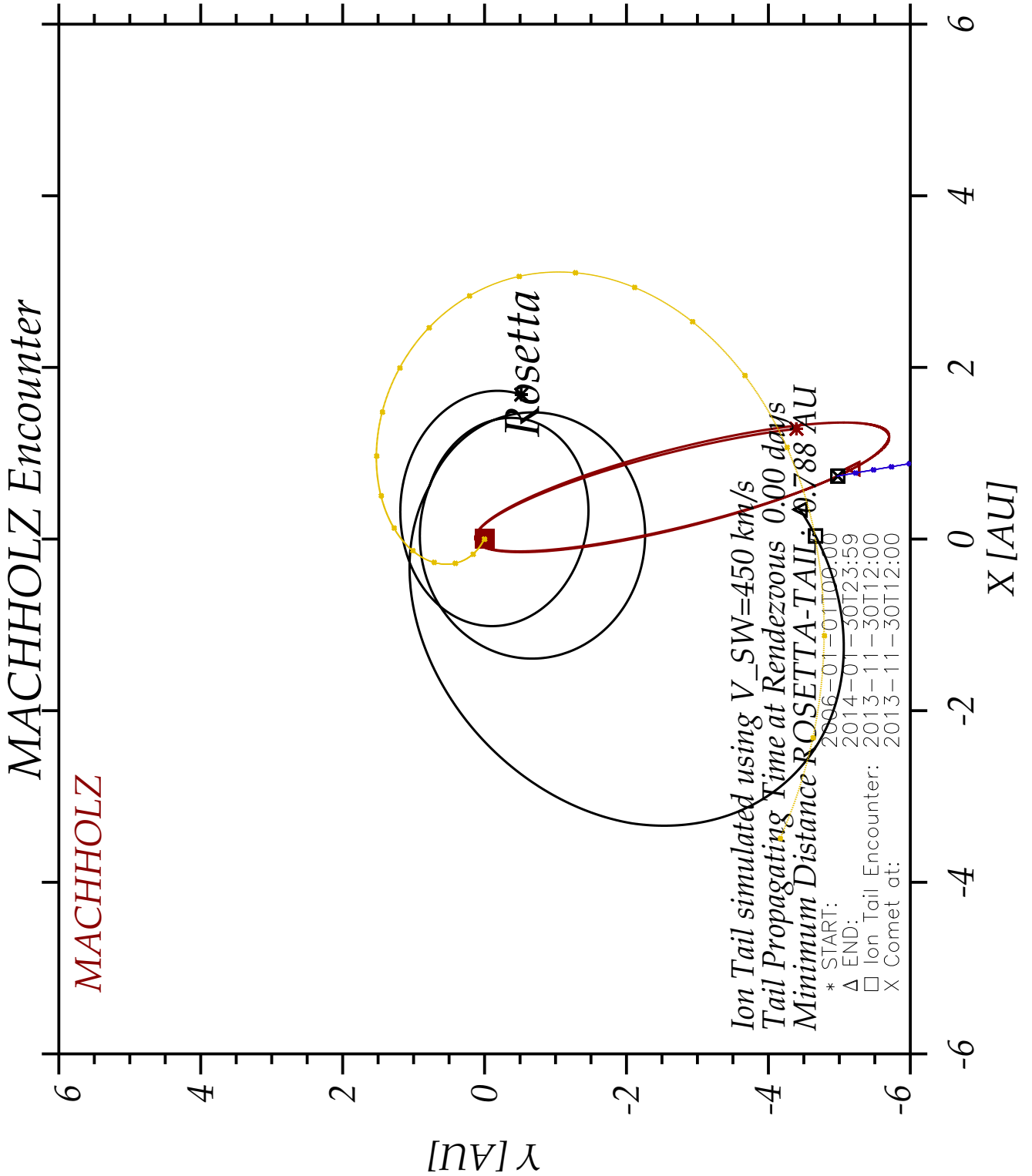


Figure 196: Overview: ROSETTA - MACHHOLZ

<p style="text-align: center;">R O S E T T A</p>	<p>Document: RO-IGEP-TR-0020 Issue: 1 Revision: 2 Date: 2006-10-25 Page: 296</p>
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101 Comet 97P/METCALF-BREWINGTON

<p>Comet: 97P/METCALF-BREWINGTON</p>
<p>No Encounter below 0.2000AU</p>

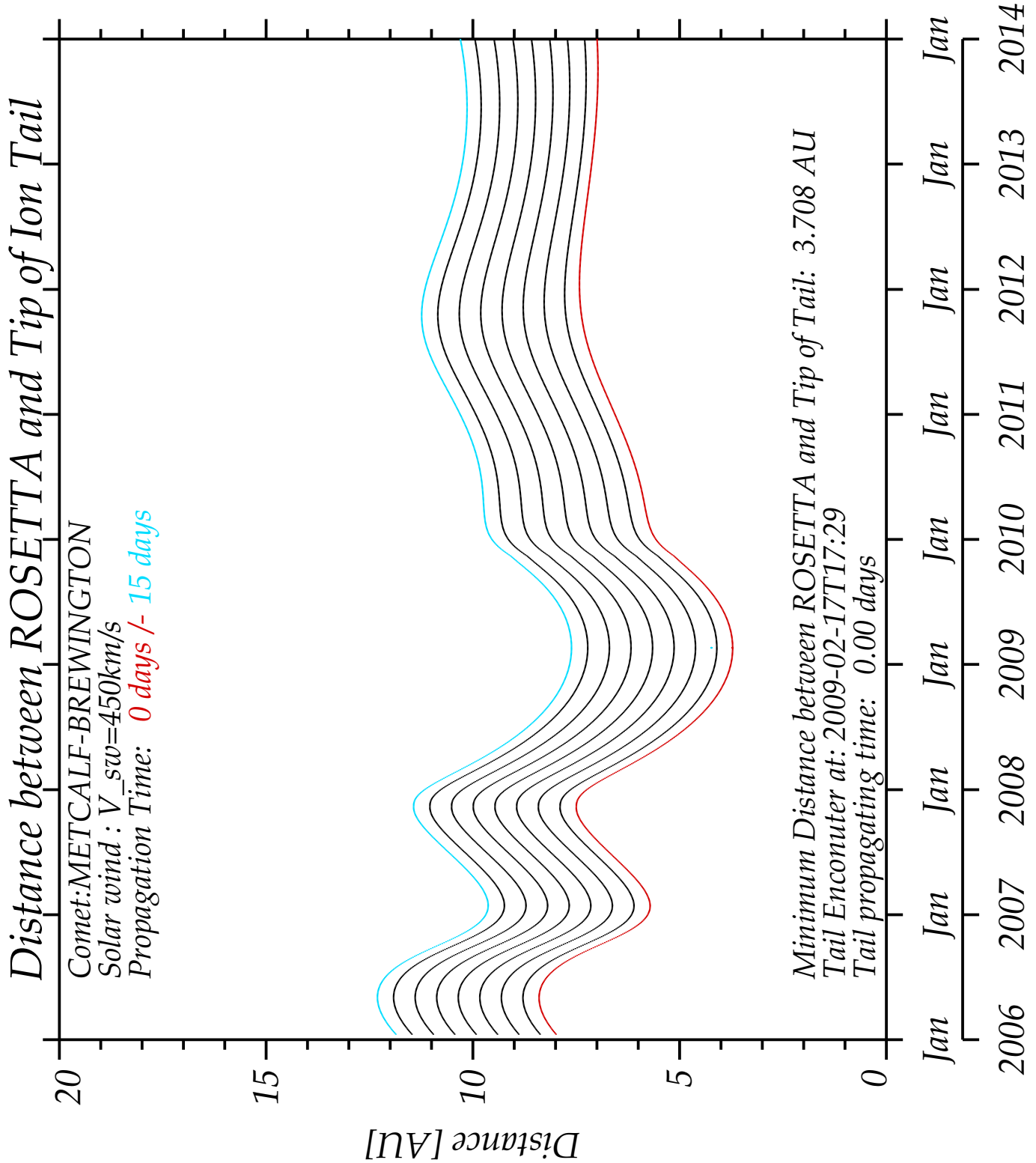


Figure 197: Minimum Distances: ROSETTA - METCALF-BREWINGTON

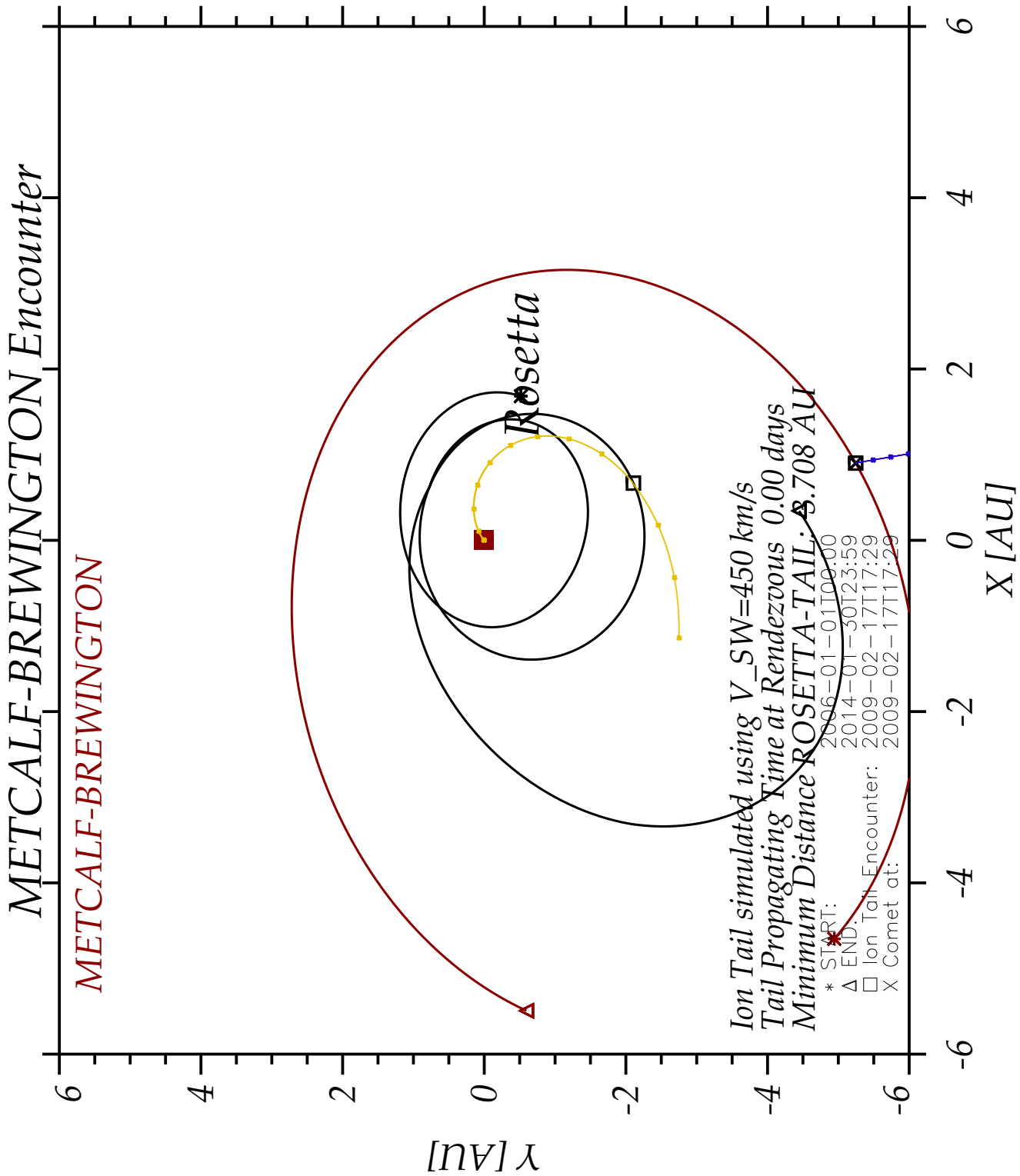


Figure 198: Overview: ROSETTA - METCALF-BREWINGTON

<p style="text-align: center;">R O S E T T A</p>	<p>Document: RO-IGEP-TR-0020 Issue: 1 Revision: 2</p>
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102 Comet 98P/TAKAMIZAWA

<p>Comet: 98P/TAKAMIZAWA</p>
<p>No Encounter below 0.2000AU</p>

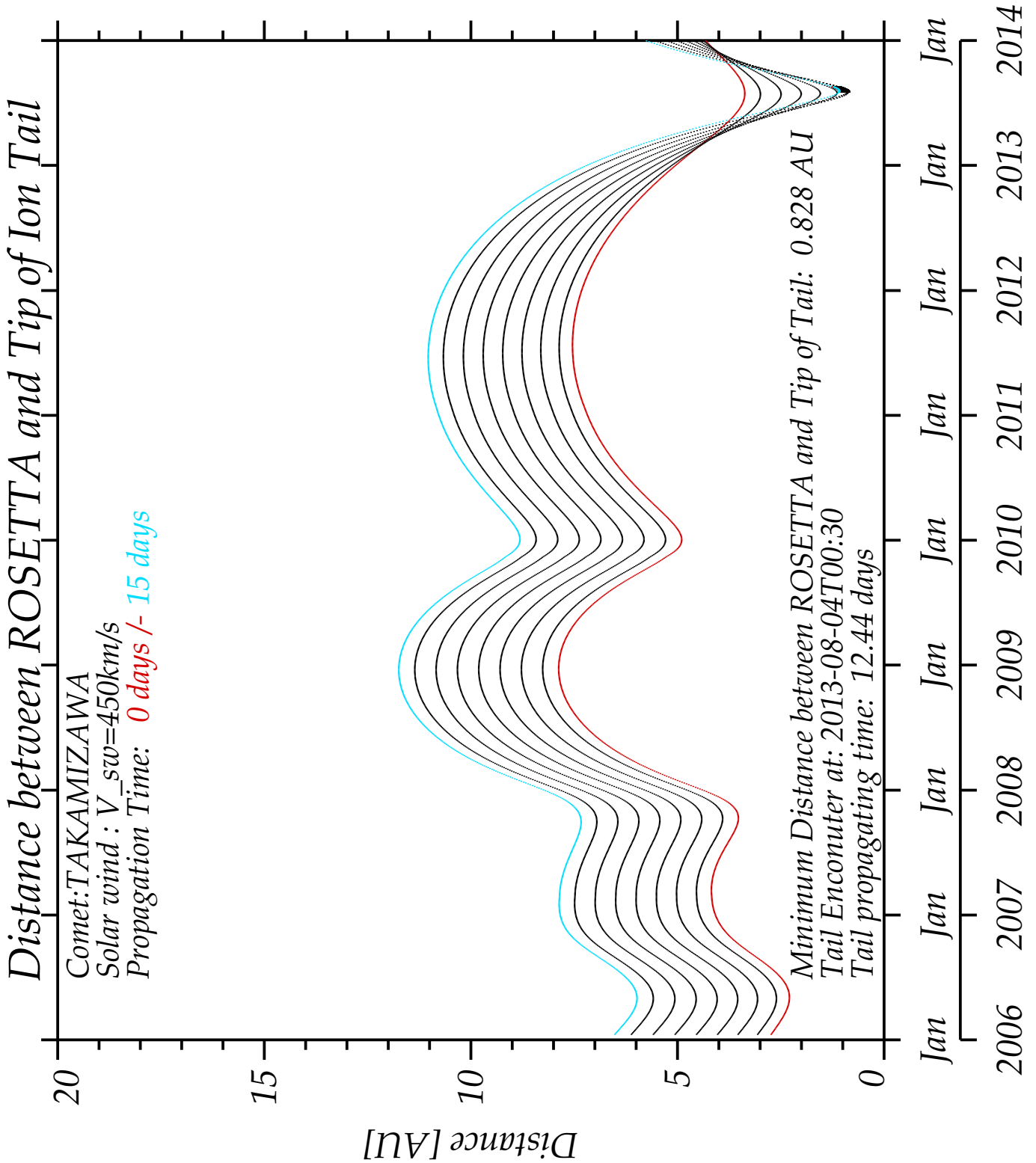


Figure 199: Minimum Distances: ROSETTA - TAKAMIZAWA

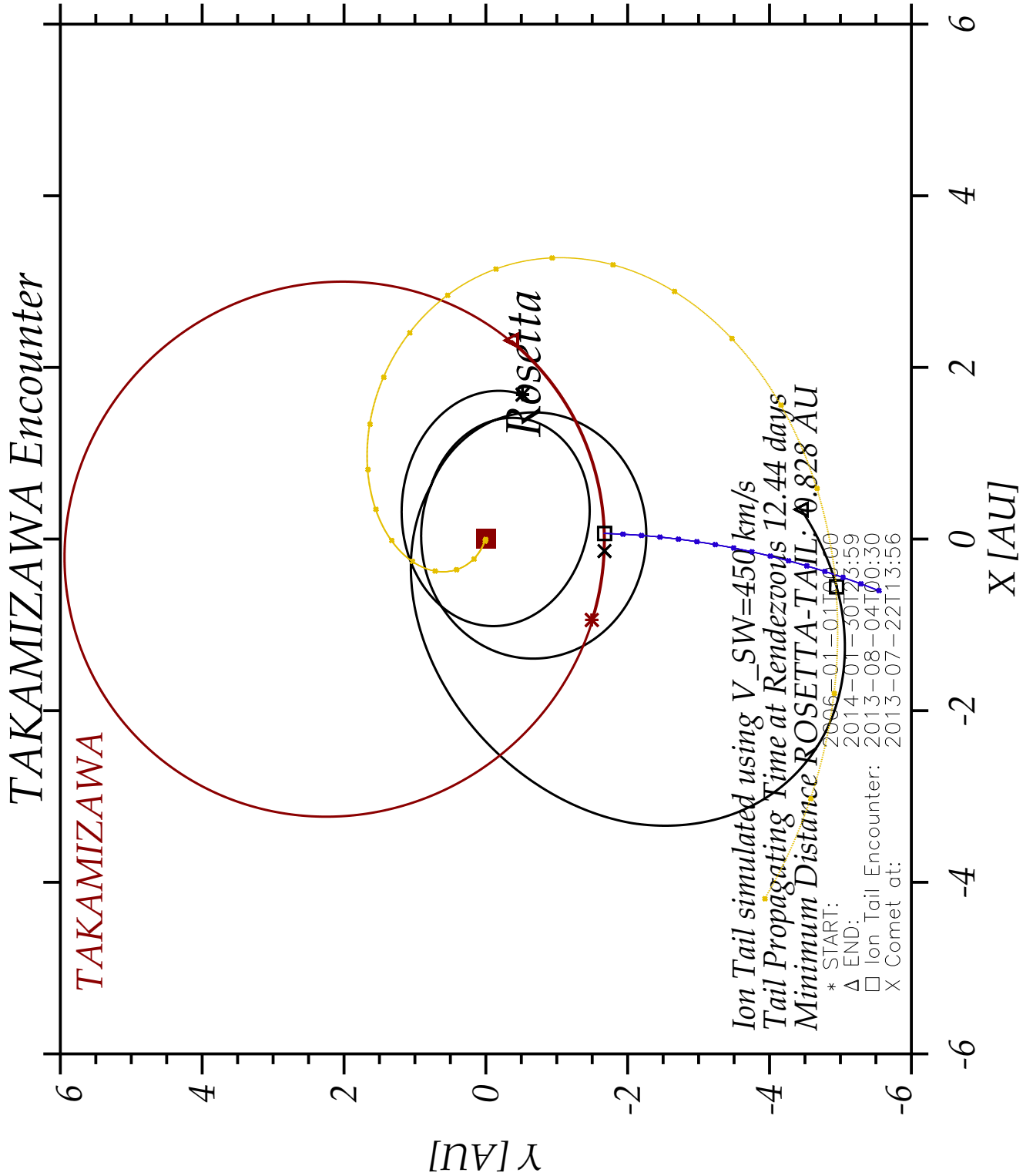


Figure 200: Overview: ROSETTA - TAKAMIZAWA

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103 Comet 99P/KOWAL 1

Comet: 99P/KOWAL 1
No Encounter below 0.2000AU

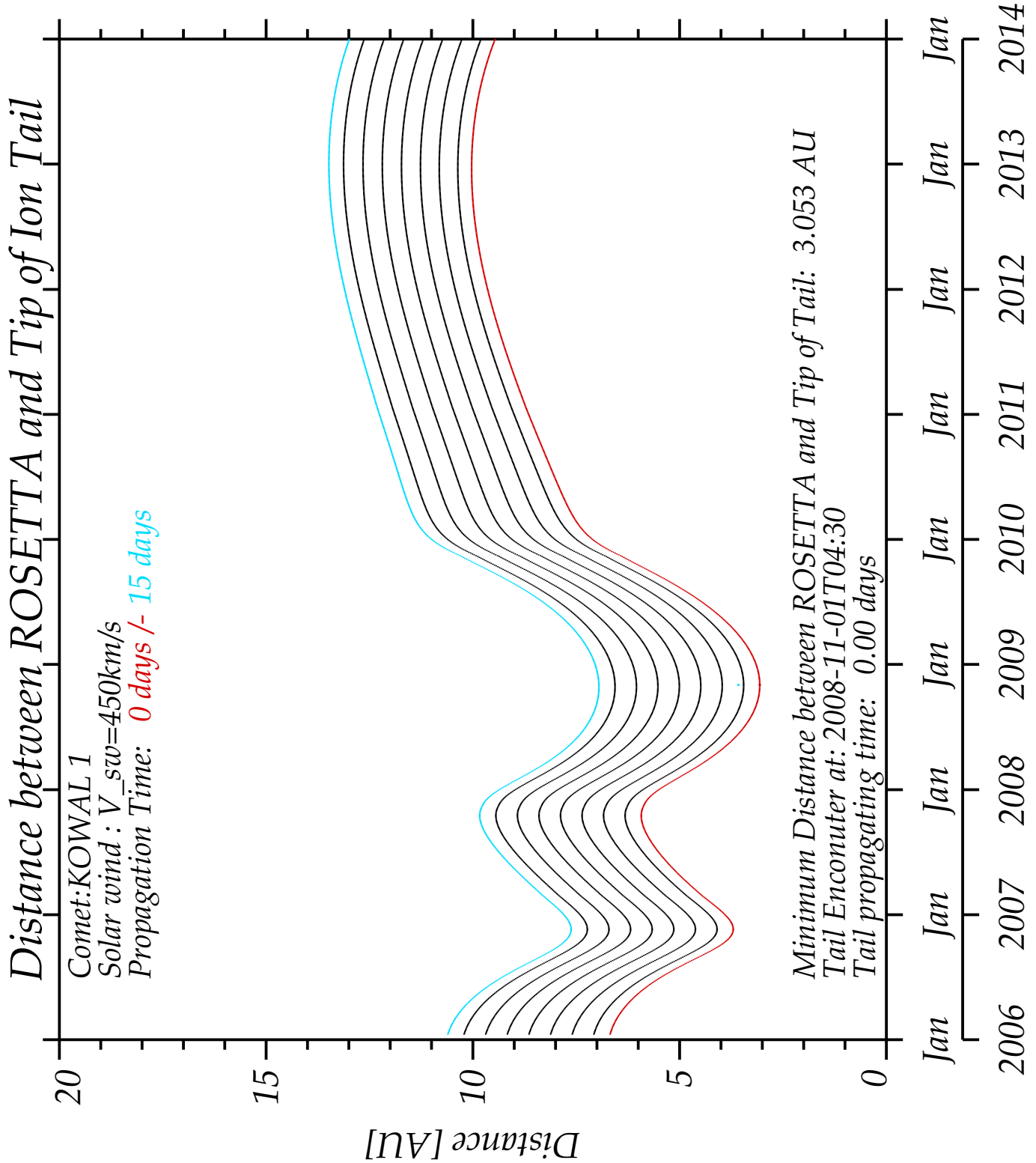


Figure 201: Minimum Distances: ROSETTA - KOWAL 1

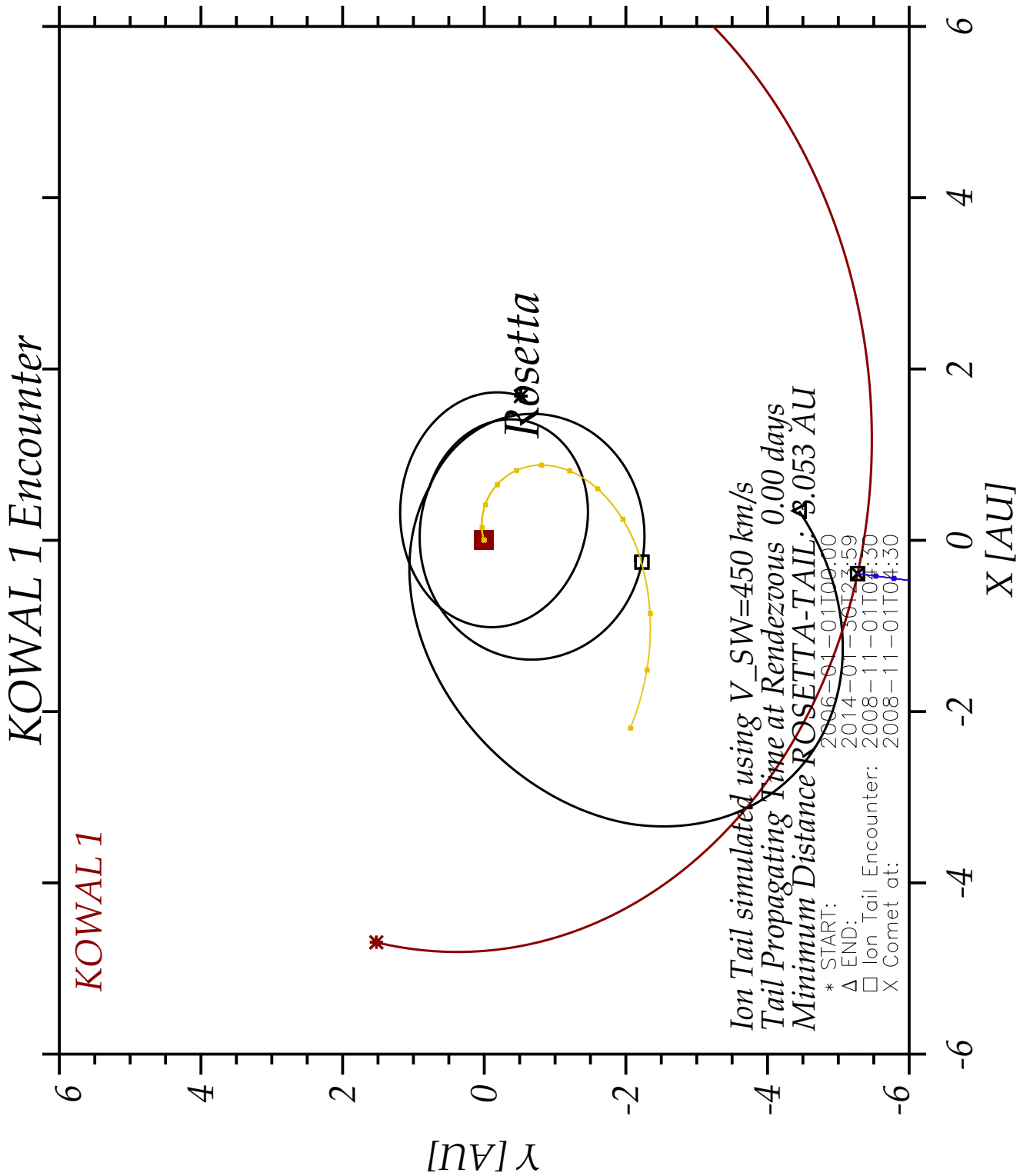


Figure 202: Overview: ROSETTA - KOWAL 1

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104 Comet 100/HARTLEY 1

Comet: 100/HARTLEY 1
No Encounter below 0.2000AU

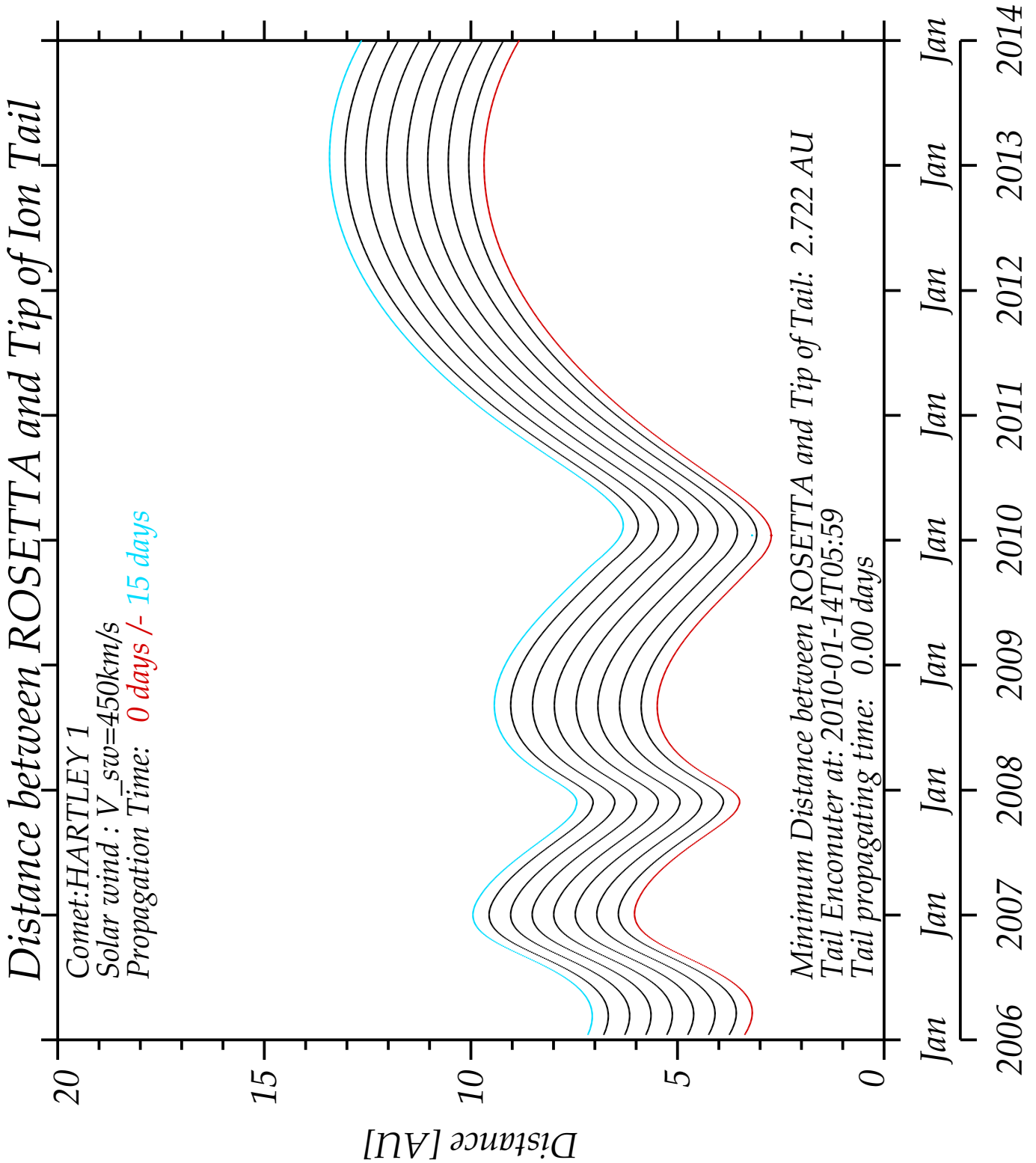


Figure 203: Minimum Distances: ROSETTA - HARTLEY 1

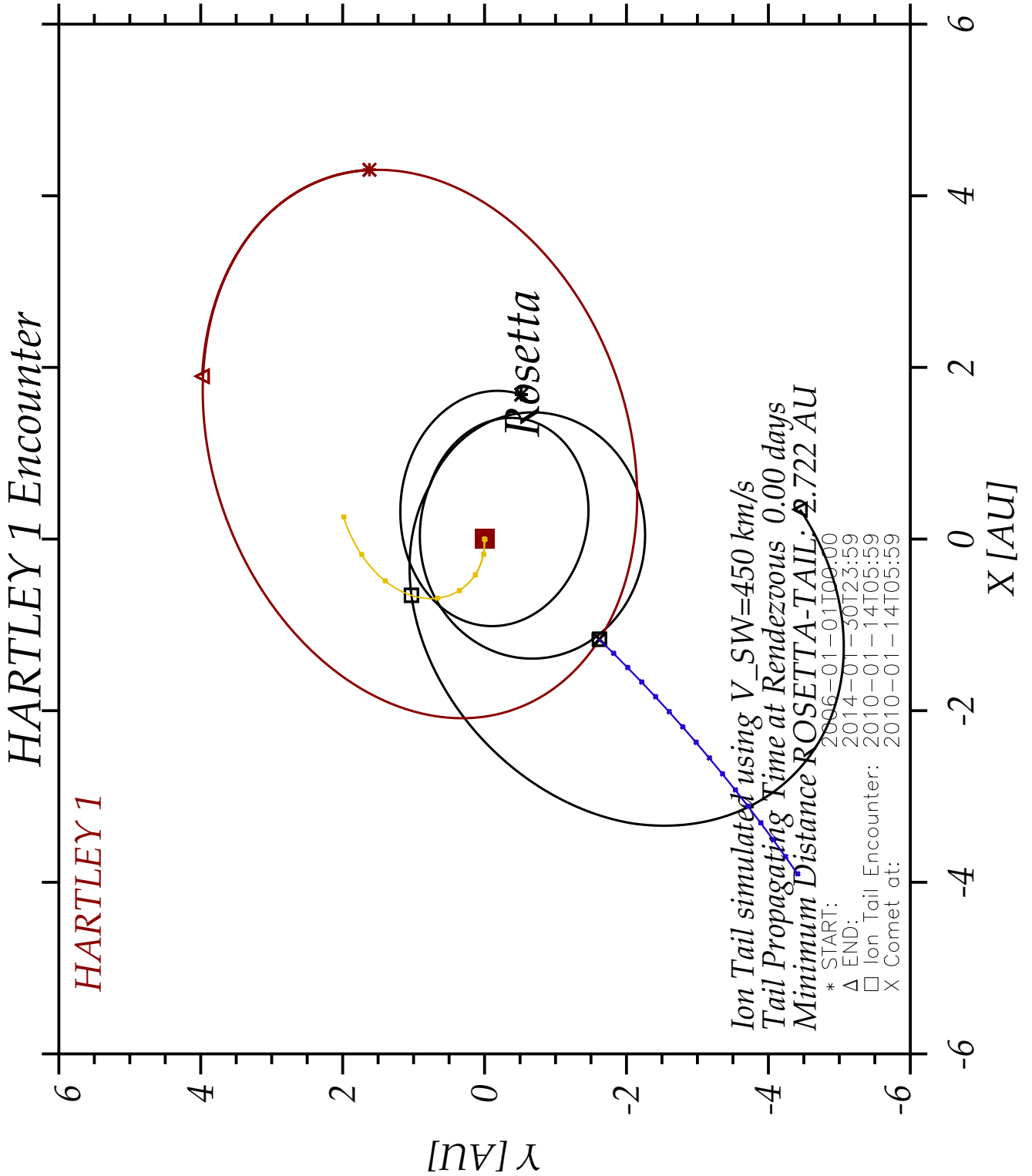


Figure 204: Overview: ROSETTA - HARTLEY 1

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105 Comet 101P/CHERNYKH

Comet: 101P/CHERNYKH
No Encounter below 0.2000AU

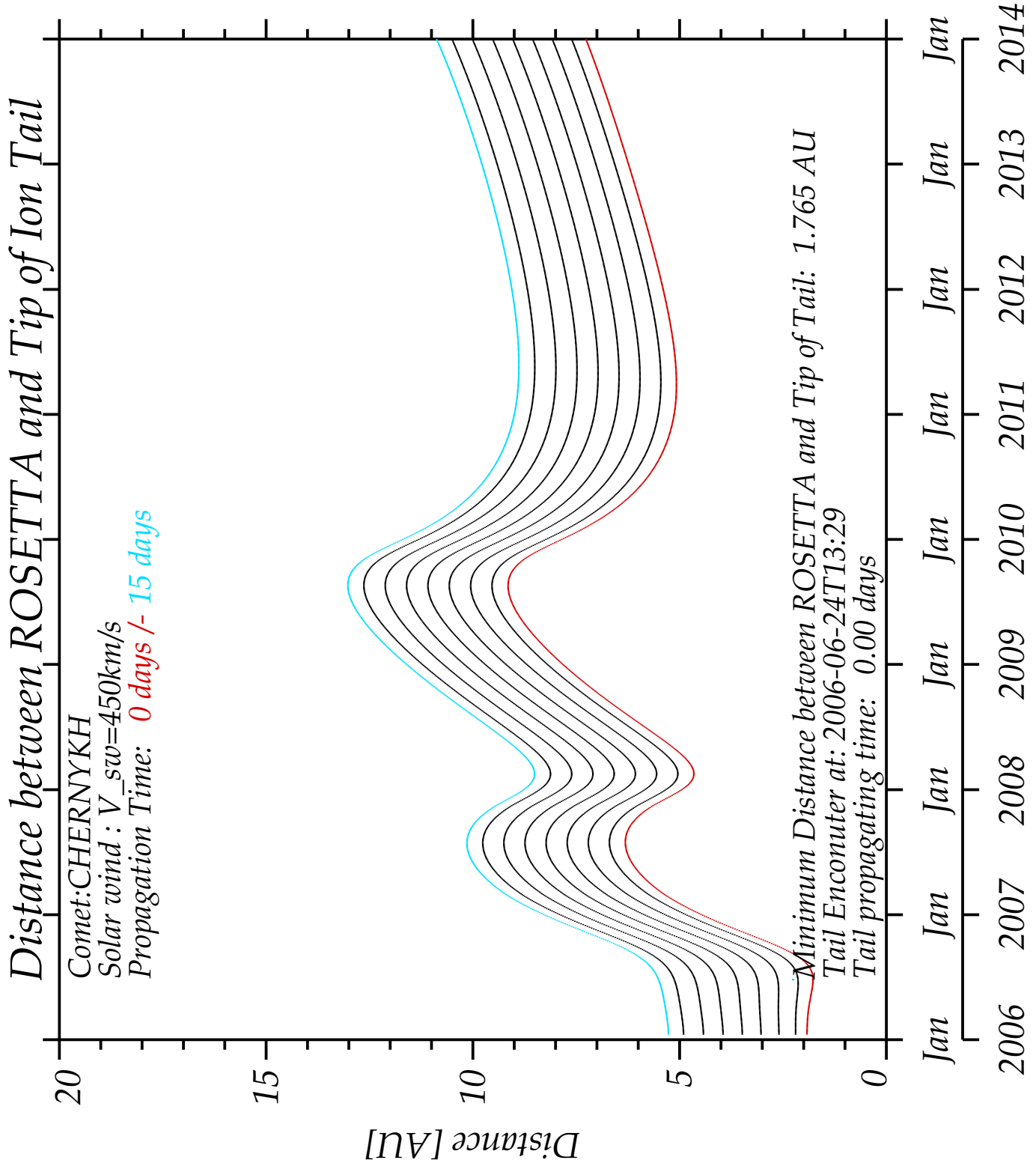


Figure 205: Minimum Distances: ROSETTA - CHERNYKH

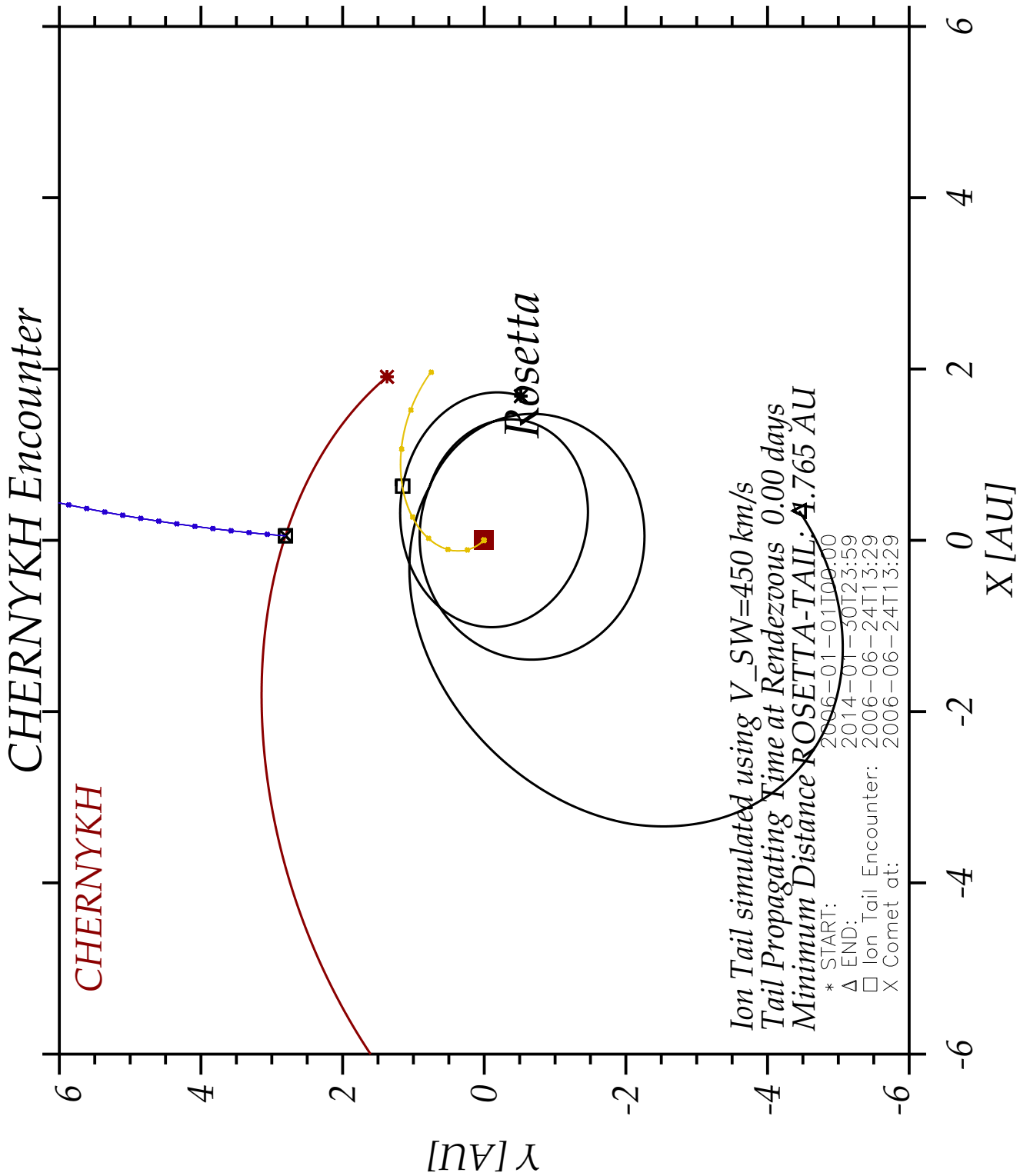


Figure 206: Overview: ROSETTA - CHERNYKH

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106 Comet 101P-B/CHERNYKH-B

Comet: 101P-B/CHERNYKH-B
No Encounter below 0.2000AU

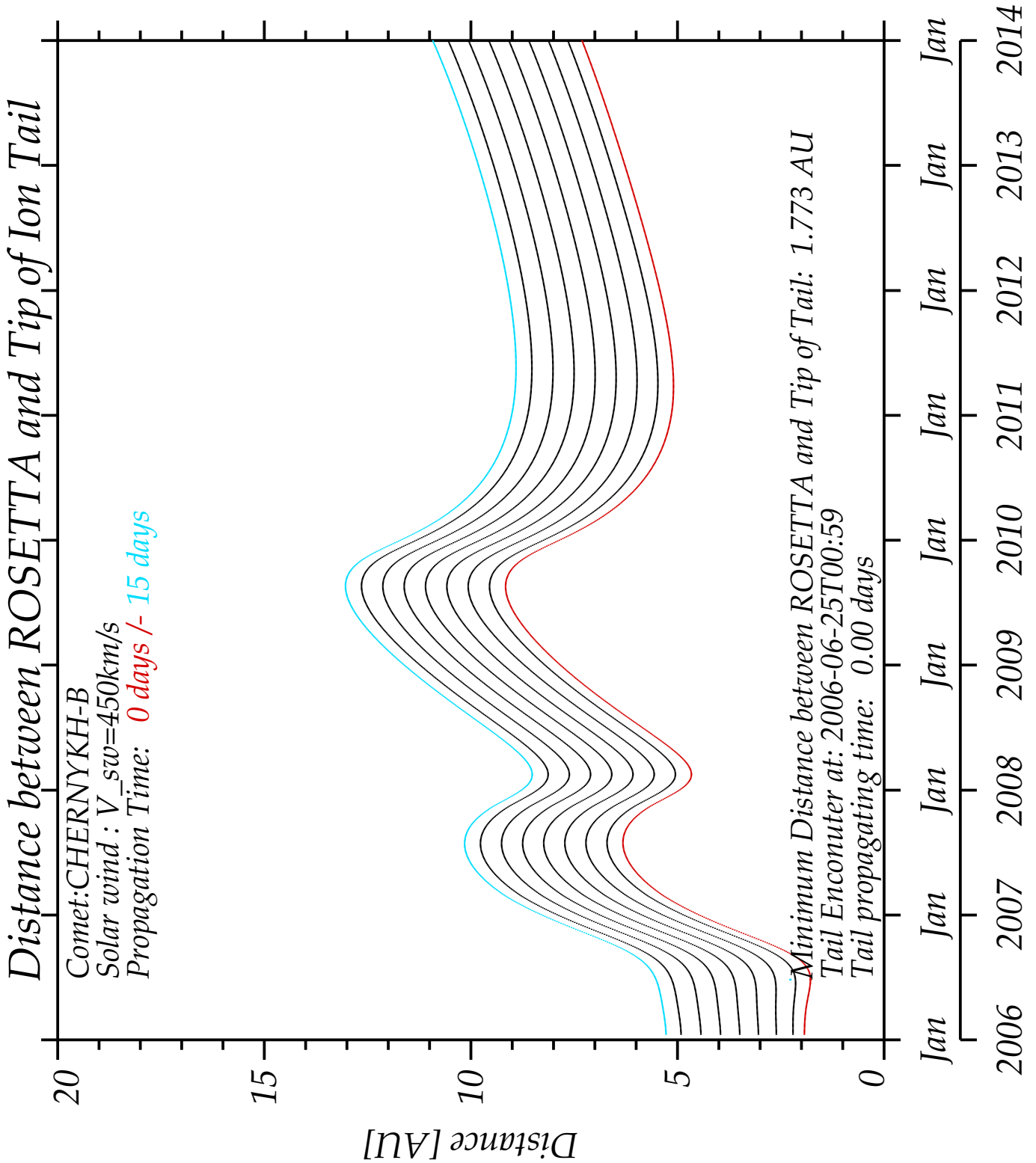


Figure 207: Minimum Distances: ROSETTA - CHERNYKH-B

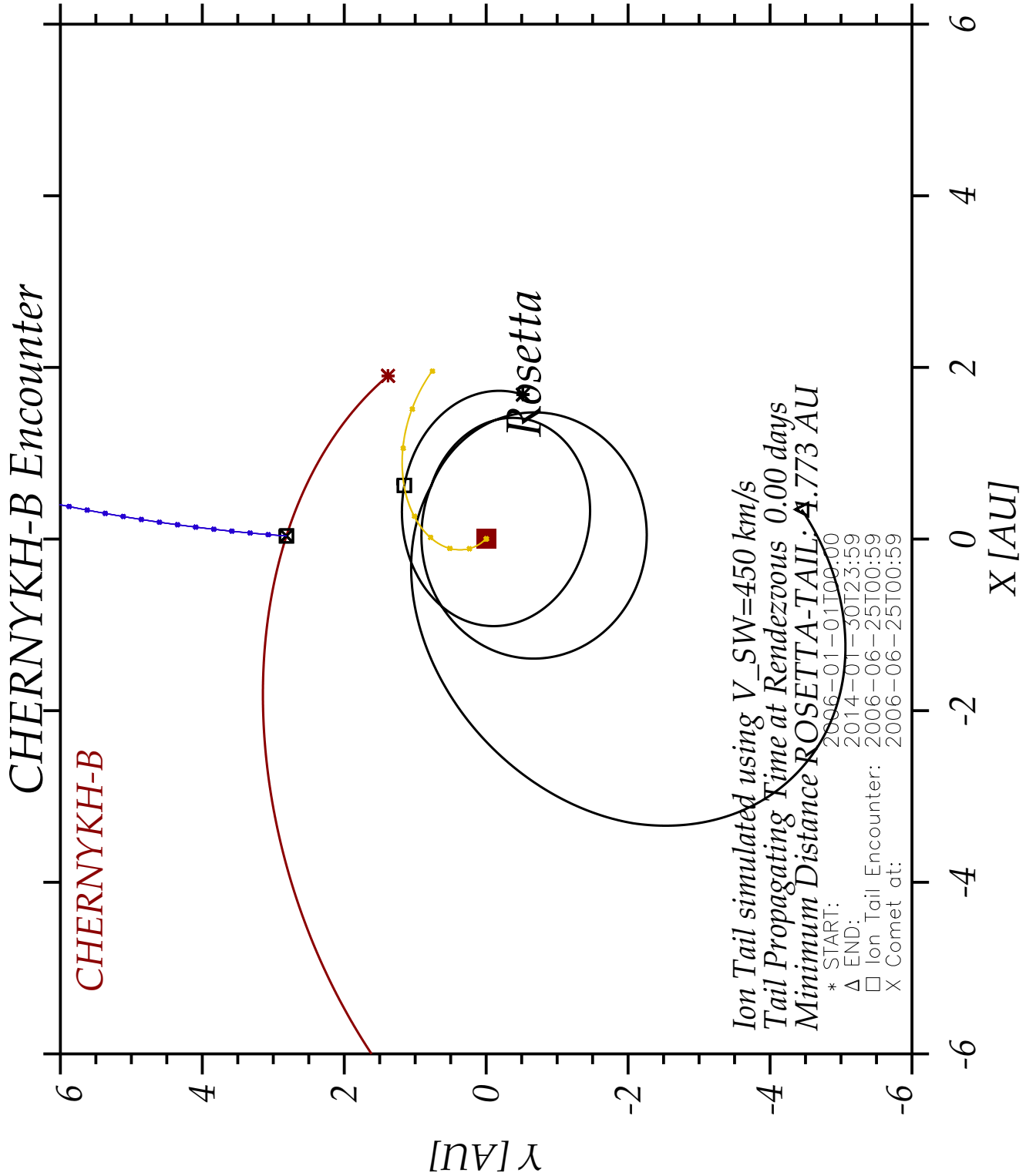


Figure 208: Overview: ROSETTA - CHERNYKH-B

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107 Comet 102P/SHOEMAKER 1

Comet: 102P/SHOEMAKER 1
No Encounter below 0.2000AU

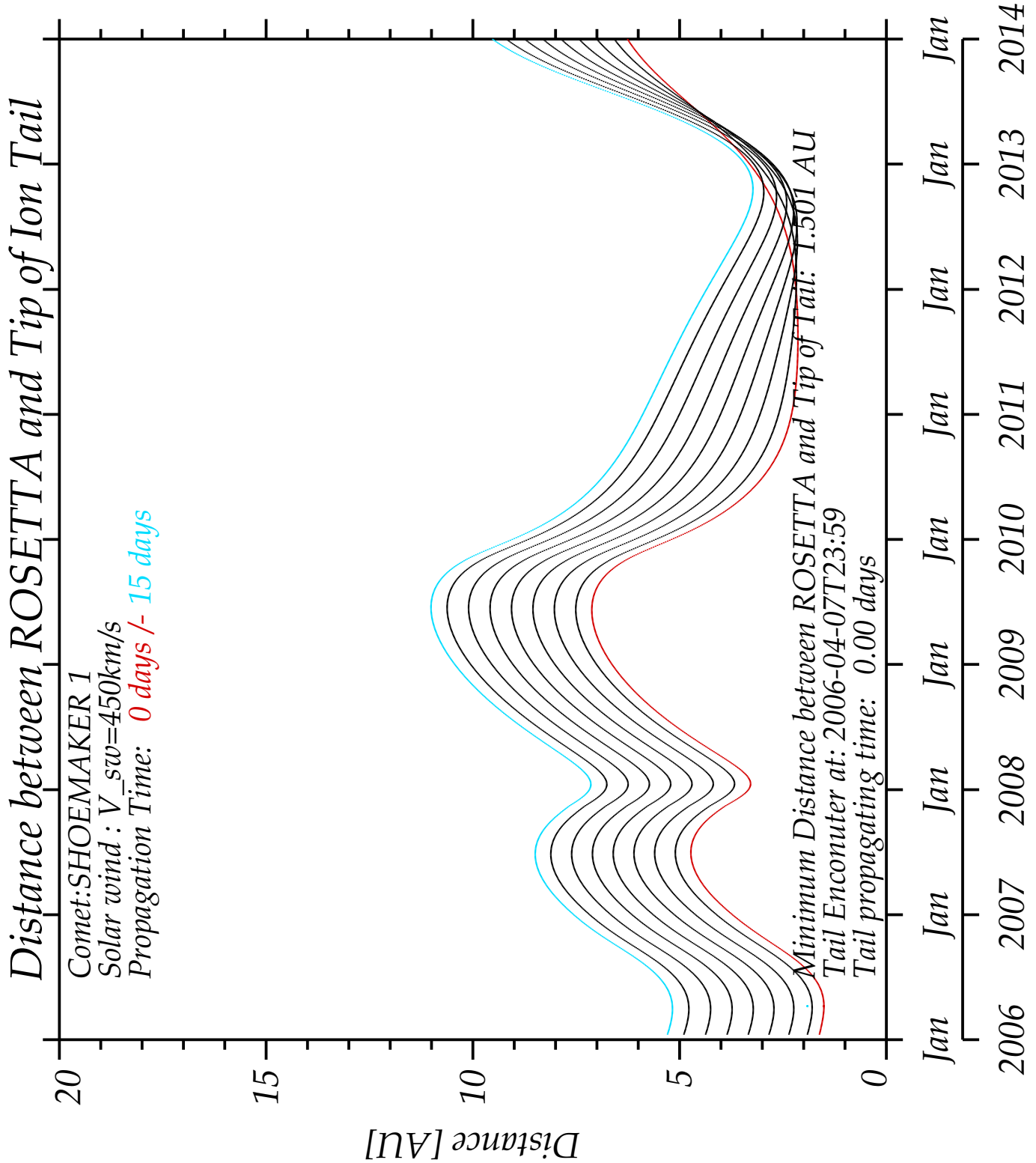


Figure 209: Minimum Distances: ROSETTA - SHOEMAKER 1

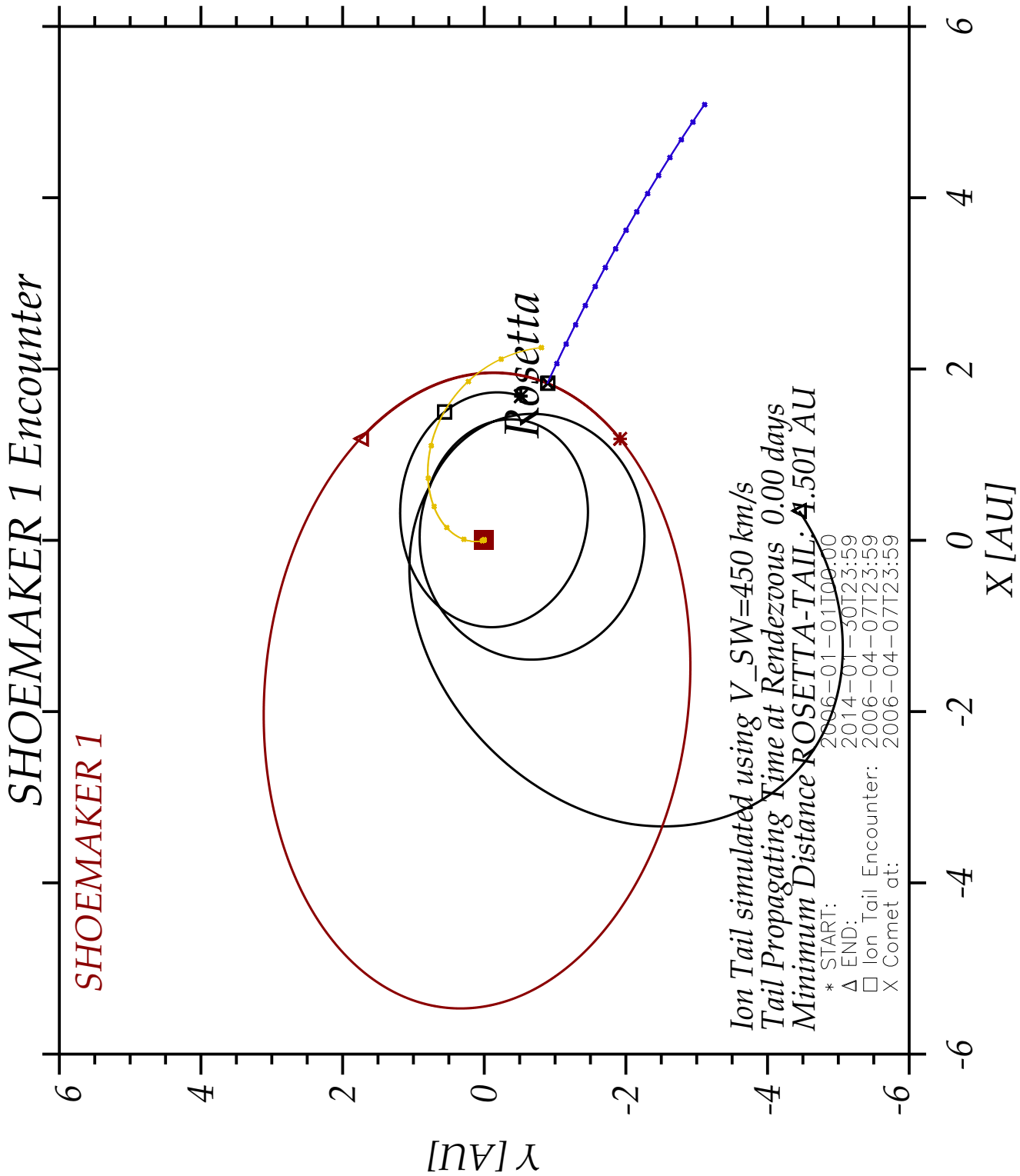


Figure 210: Overview: ROSETTA - SHOEMAKER 1

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108 Comet 103P/HARTLEY 2

Comet: 103P/HARTLEY 2
No Encounter below 0.2000AU

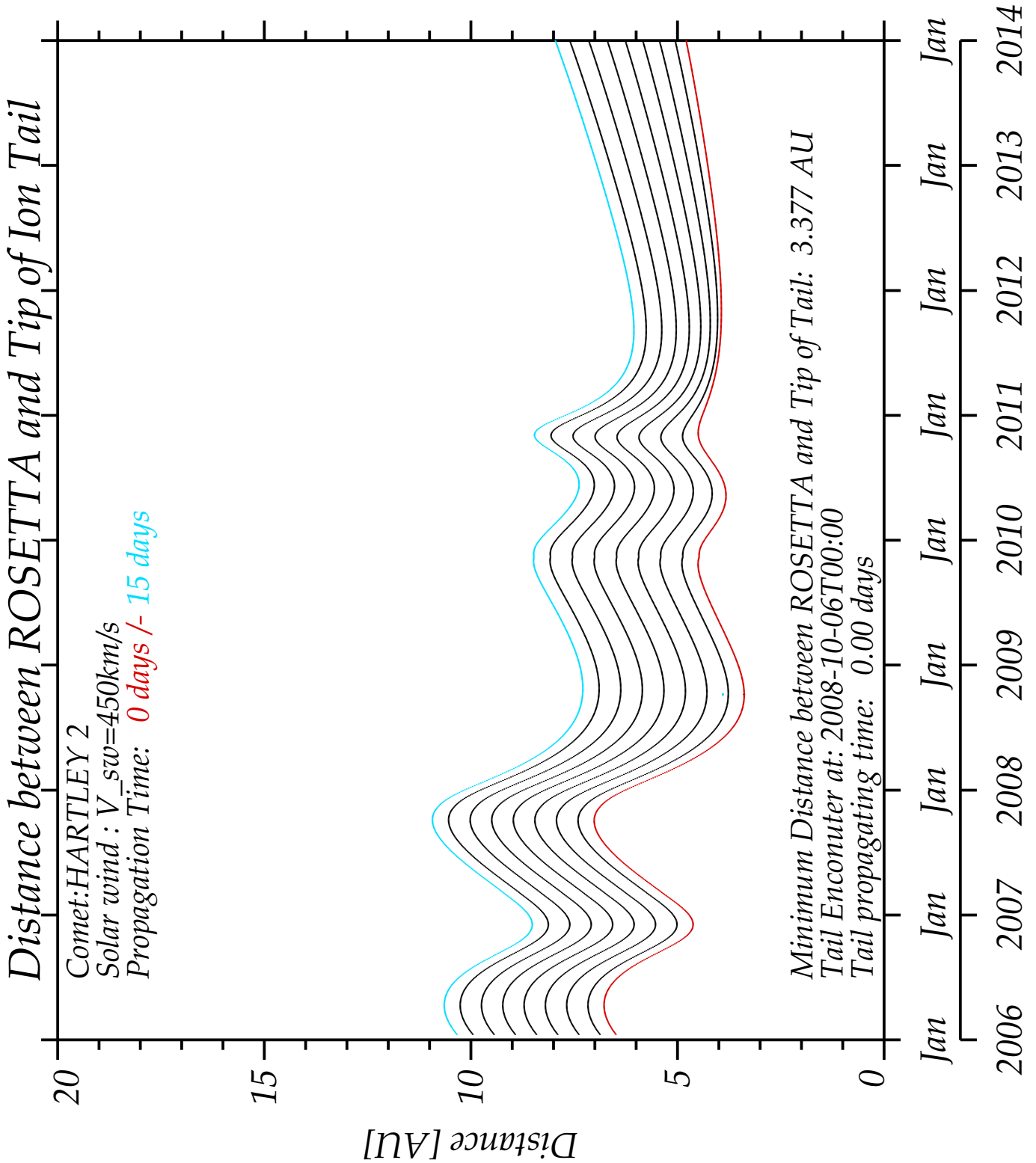


Figure 211: Minimum Distances: ROSETTA - HARTLEY 2

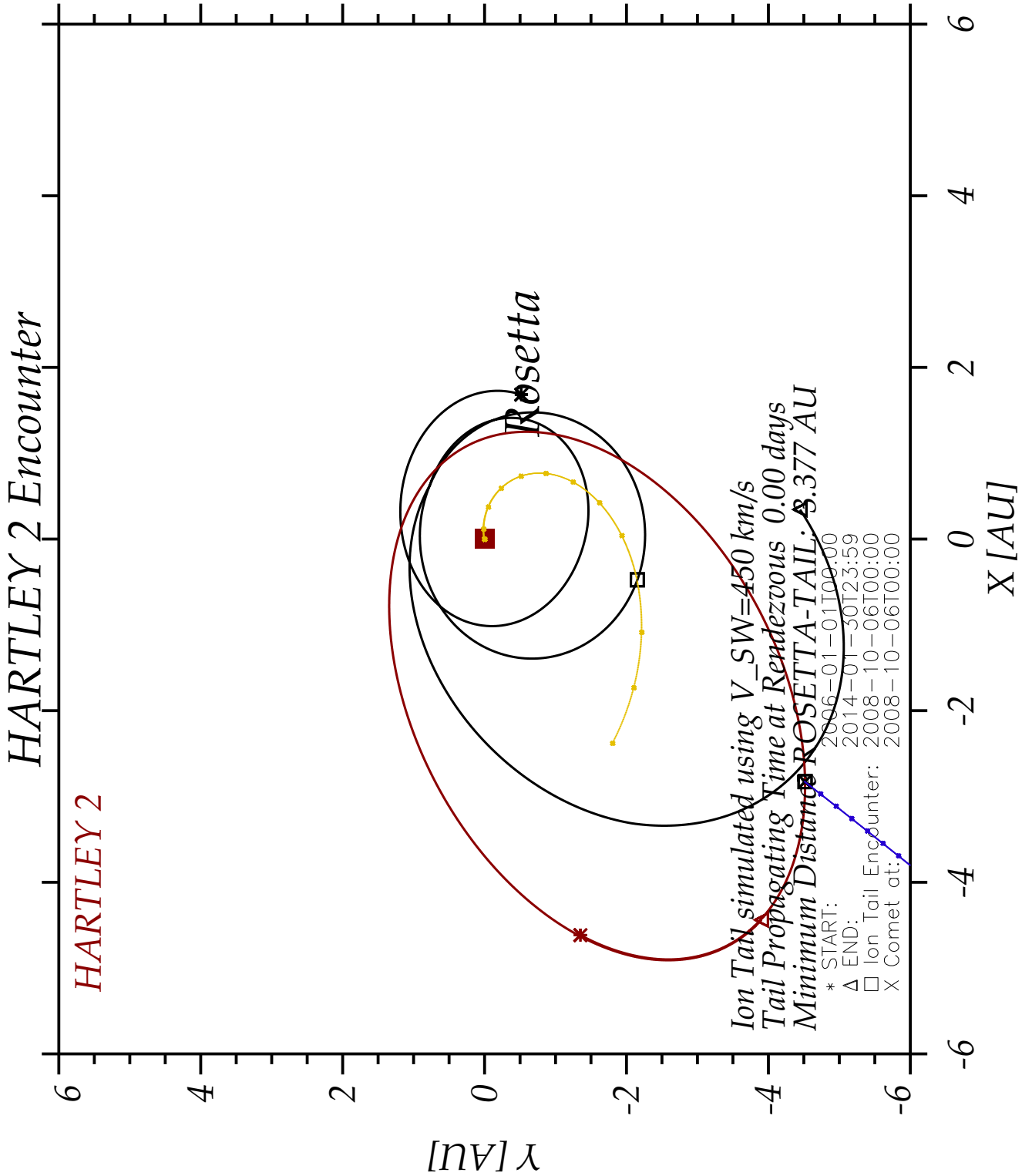


Figure 212: Overview: ROSETTA - HARTLEY 2

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109 Comet 104P/KOWAL 2

Comet: 104P/KOWAL 2
No Encounter below 0.2000AU

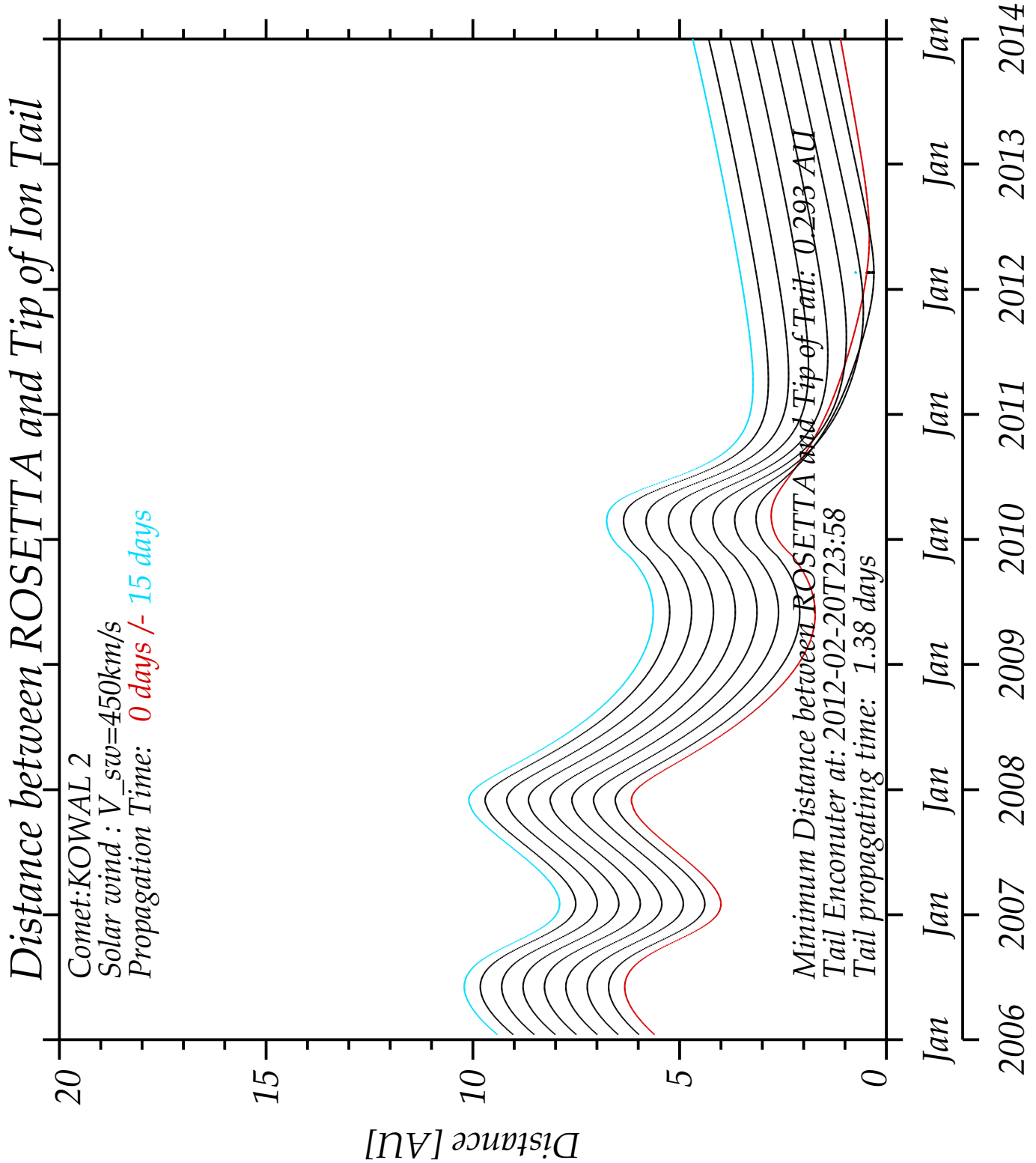


Figure 213: Minimum Distances: ROSETTA - KOWAL 2

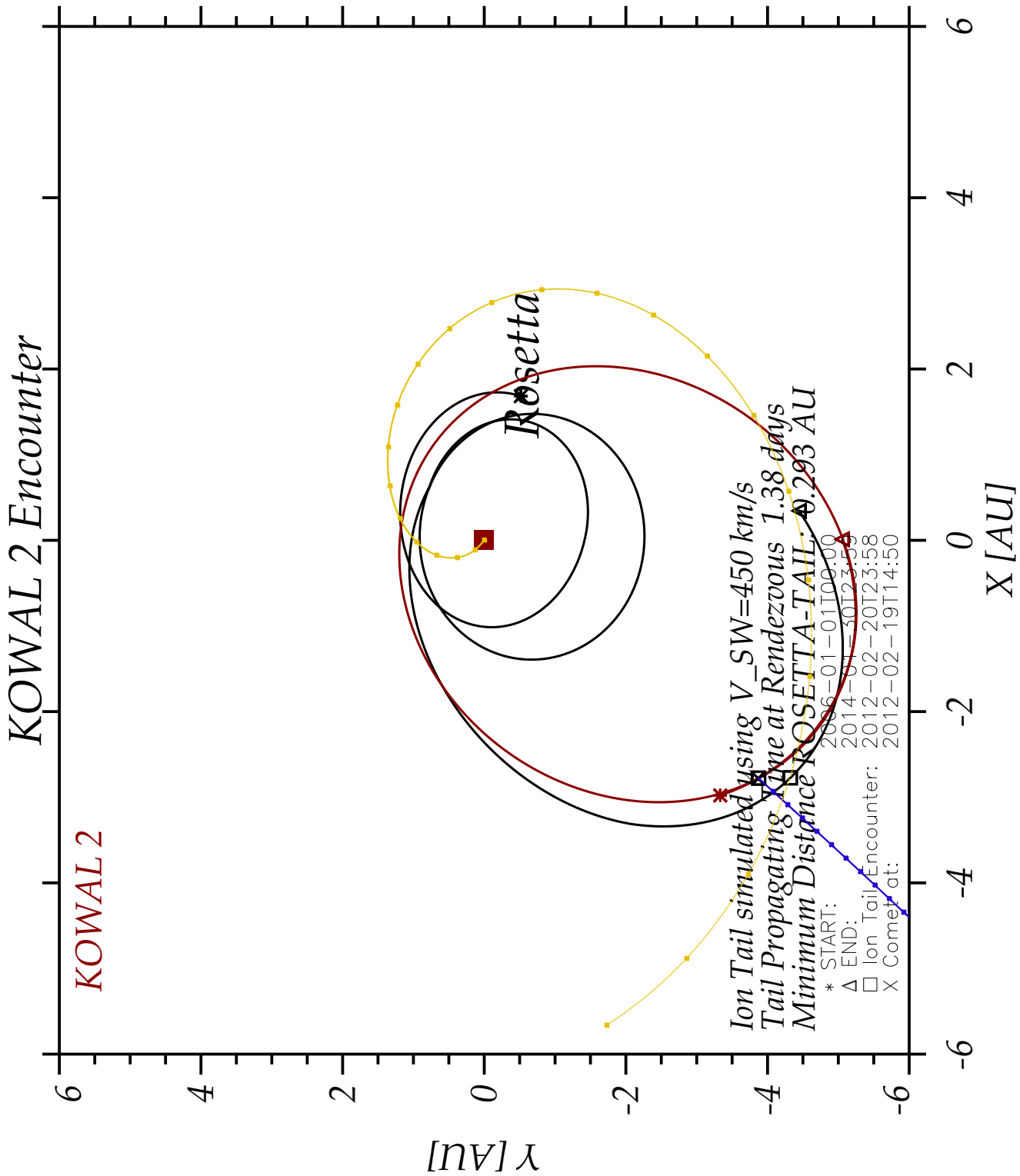


Figure 214: Overview: ROSETTA - KOWAL 2

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110 Comet 105P/SINGER-BREWSTER

Comet: 105P/SINGER-BREWSTER
No Encounter below 0.2000AU

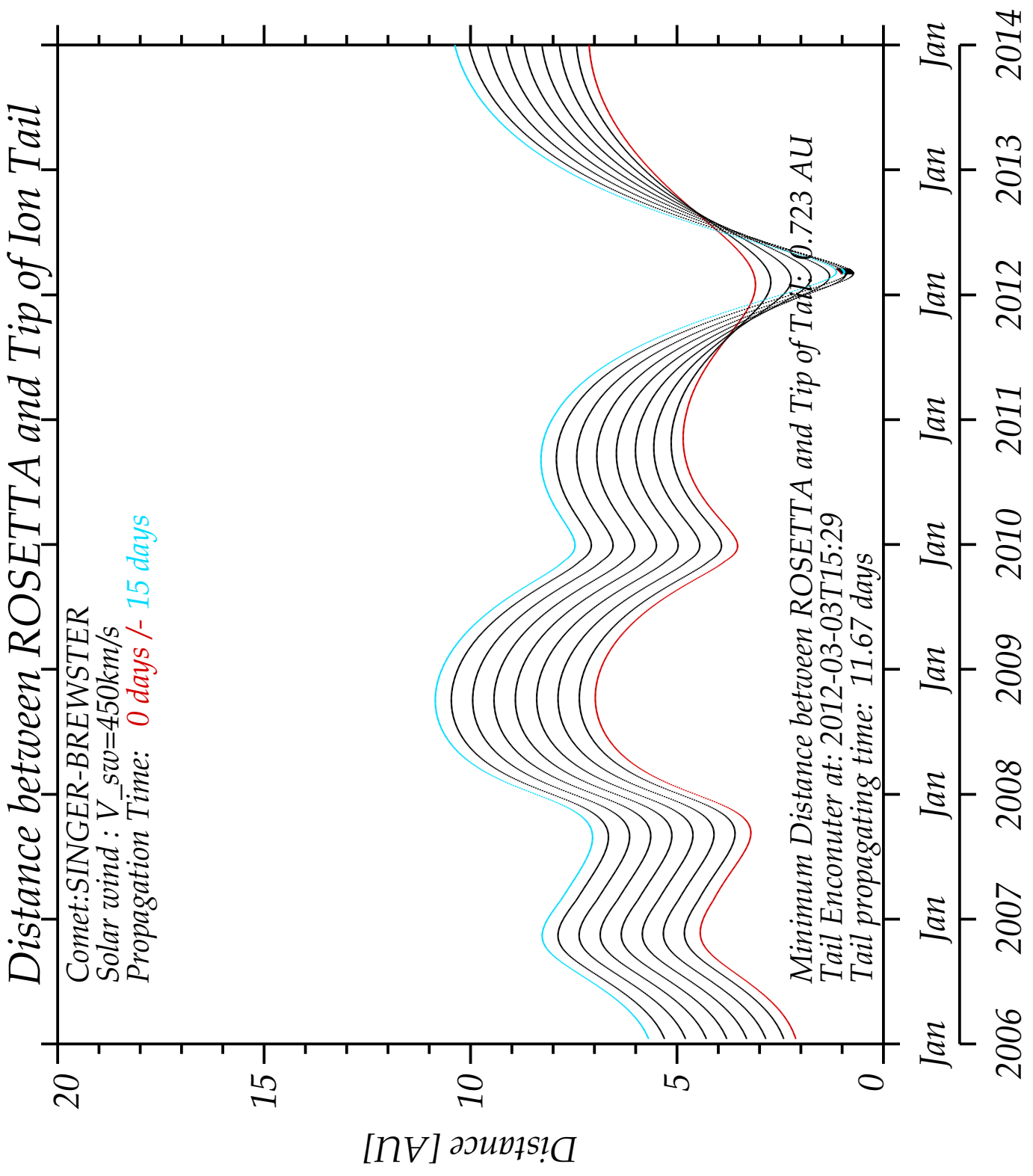


Figure 215: Minimum Distances: ROSETTA - SINGER-BREWSTER

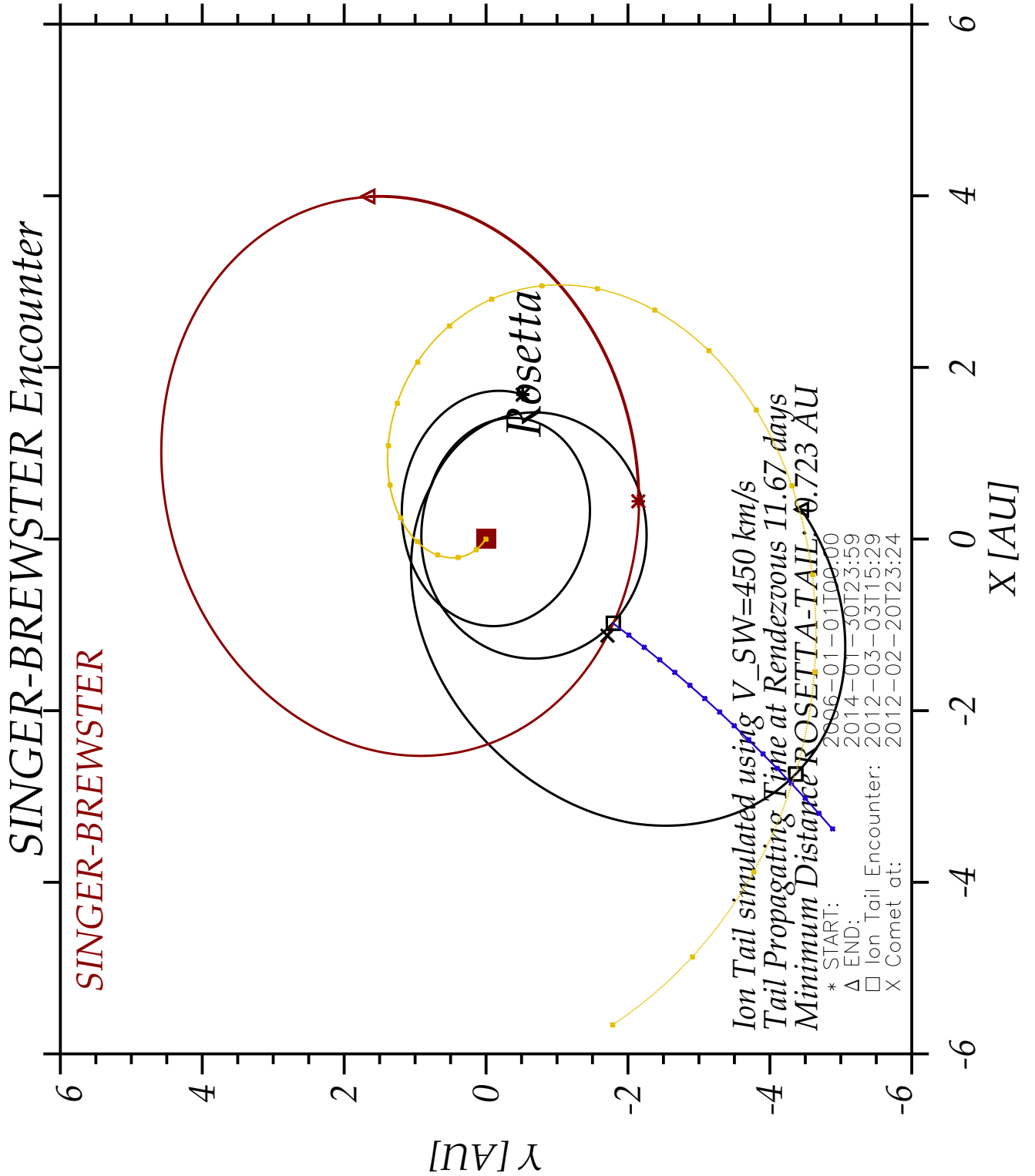


Figure 216: Overview: ROSETTA - SINGER-BREWSTER

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111 Comet 106P/SCHUSTER

Comet: 106P/SCHUSTER
No Encounter below 0.2000AU

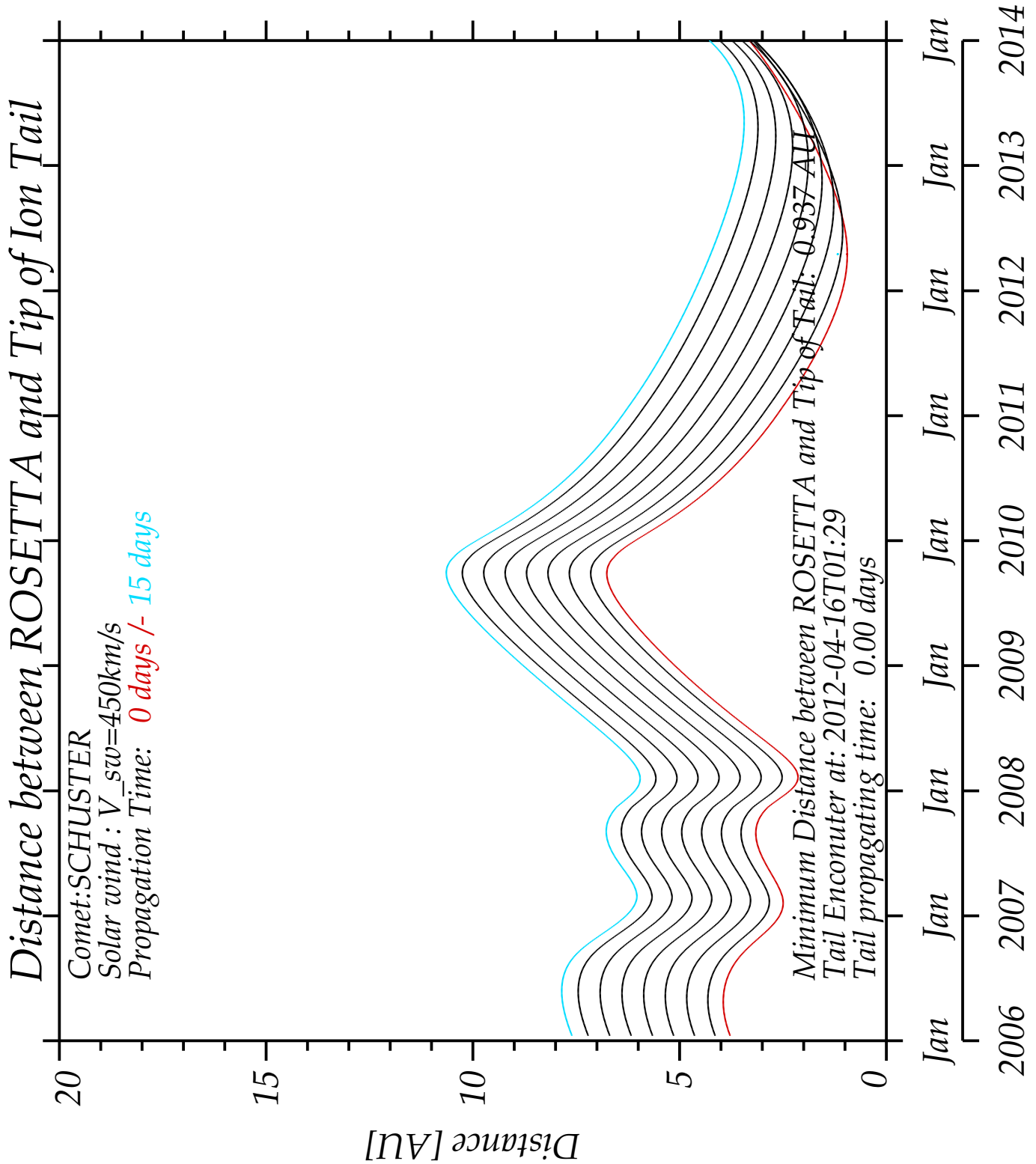


Figure 217: Minimum Distances: ROSETTA - SCHUSTER

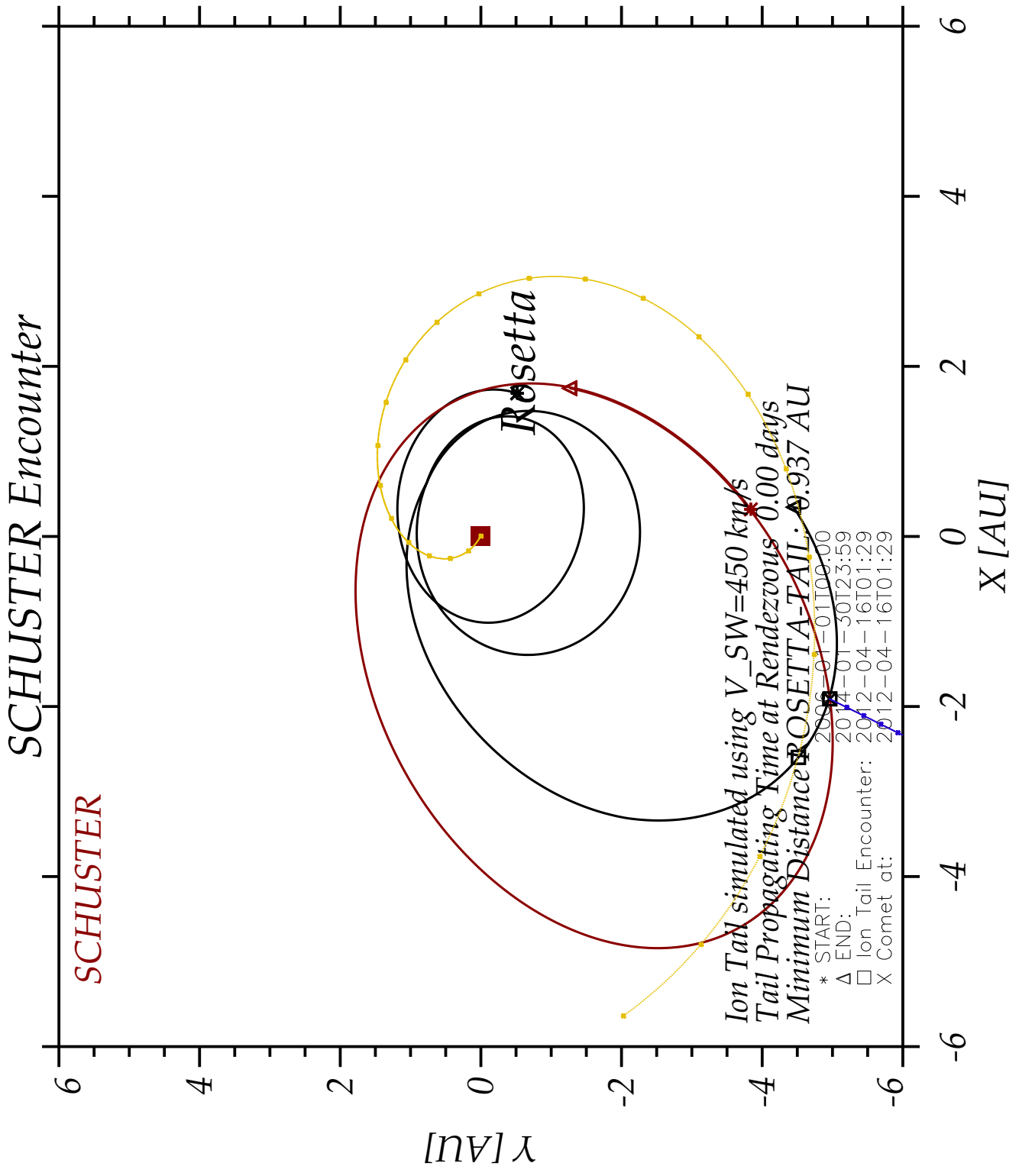


Figure 218: Overview: ROSETTA - SCHUSTER

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112 Comet 107P/WILSON-HARRINGTON

Comet: 107P/WILSON-HARRINGTON
No Encounter below 0.2000AU

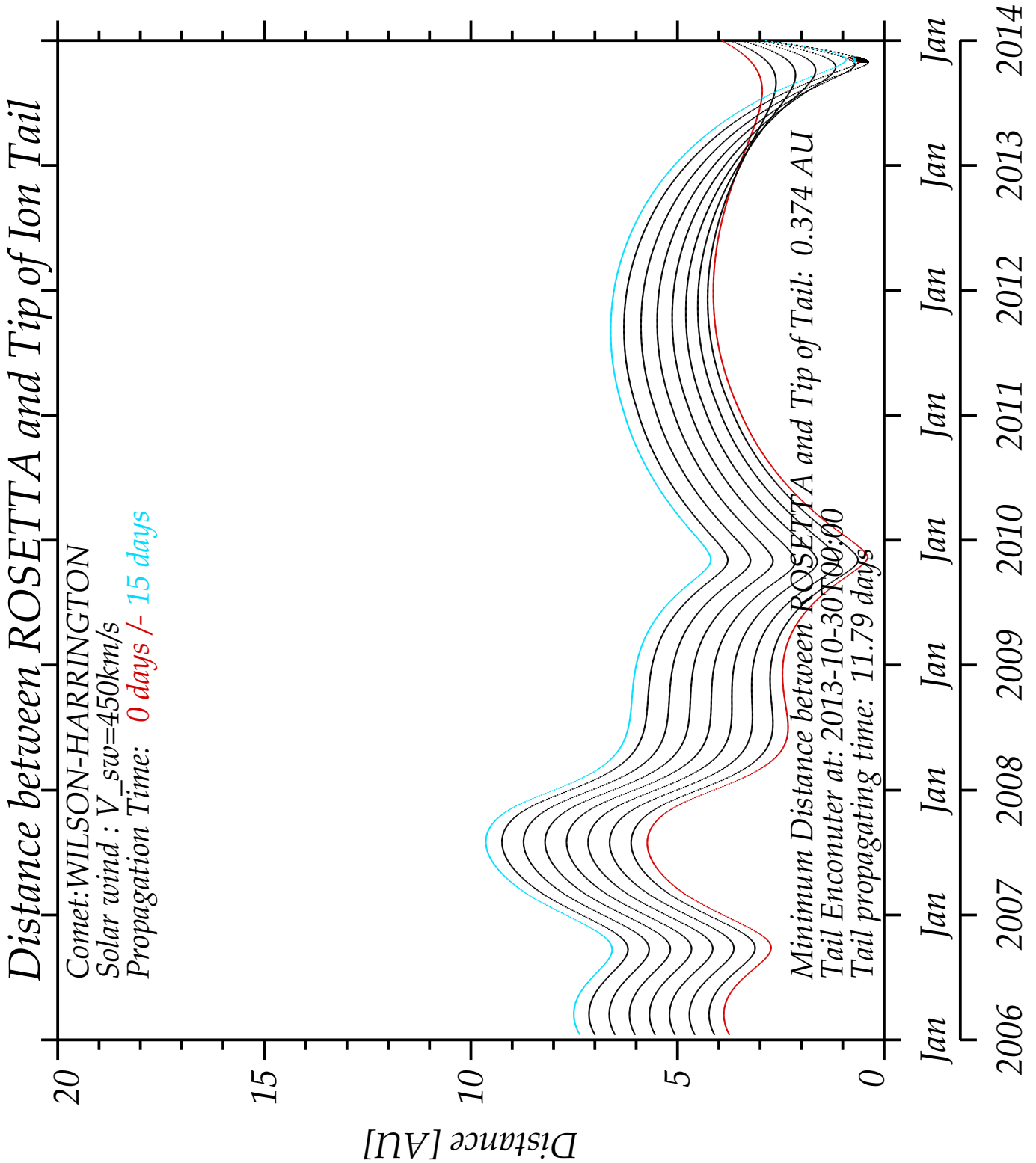


Figure 219: Minimum Distances: ROSETTA - WILSON-HARRINGTON

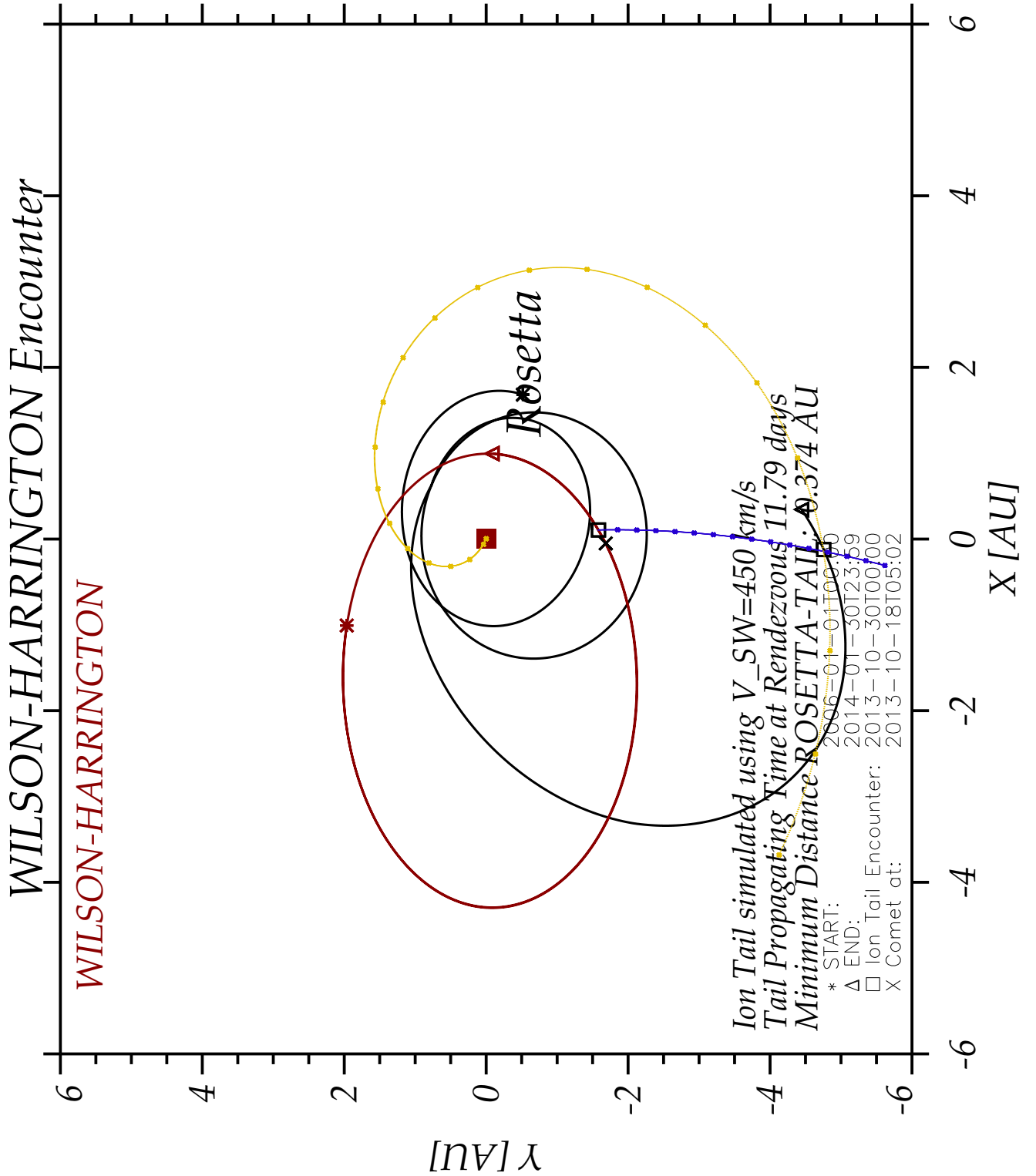


Figure 220: Overview: ROSETTA - WILSON-HARRINGTON

<p style="text-align: center;">R O S E T T A</p>	<p>Document: RO-IGEP-TR-0020 Issue: 1 Revision: 2 Date: 2006-10-25 Page: 332</p>
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113 Comet 108P/CIFFREO

<p>Comet: 108P/CIFFREO</p>
<p>No Encounter below 0.2000AU</p>

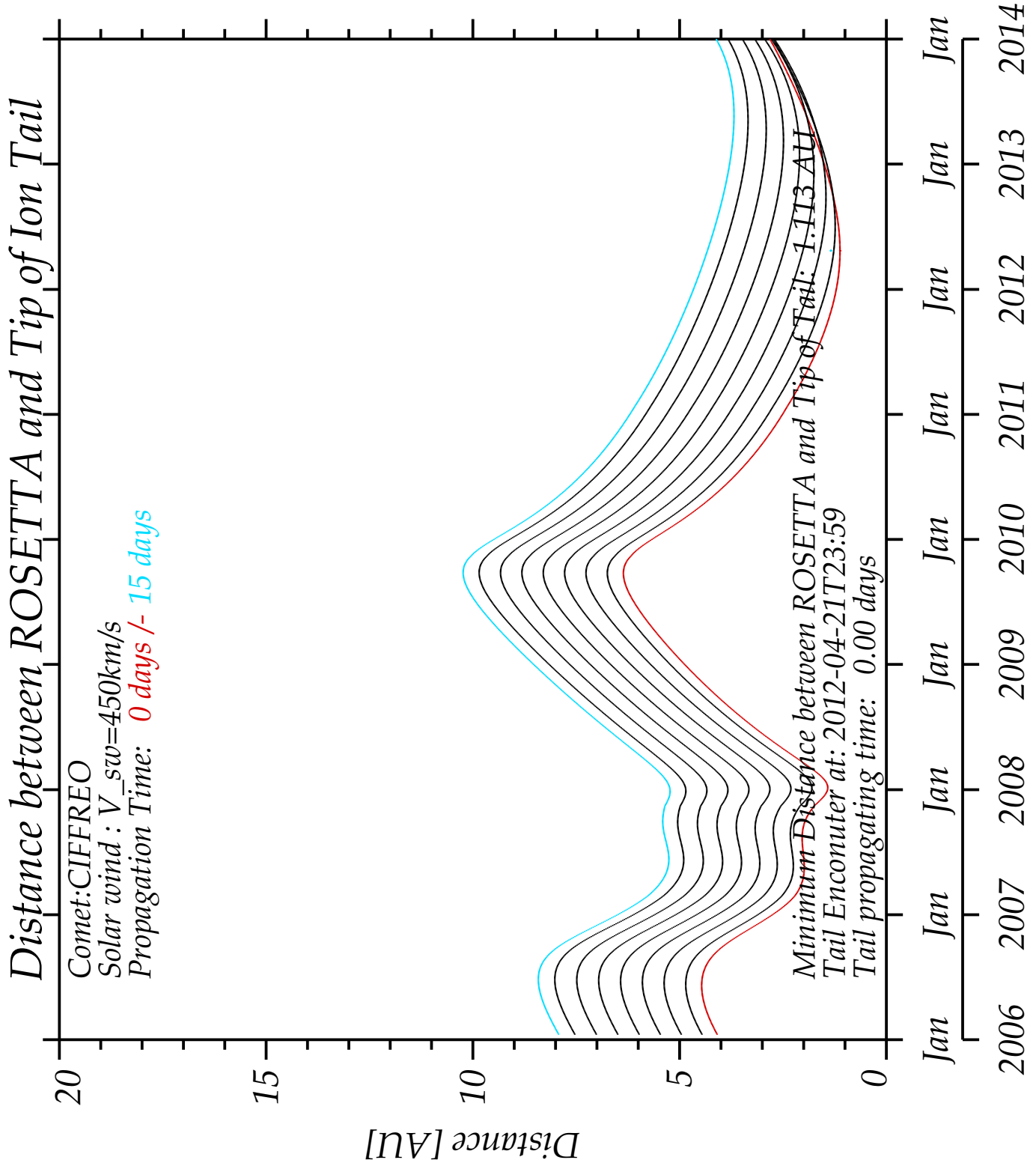


Figure 221: Minimum Distances: ROSETTA - CIFFREO

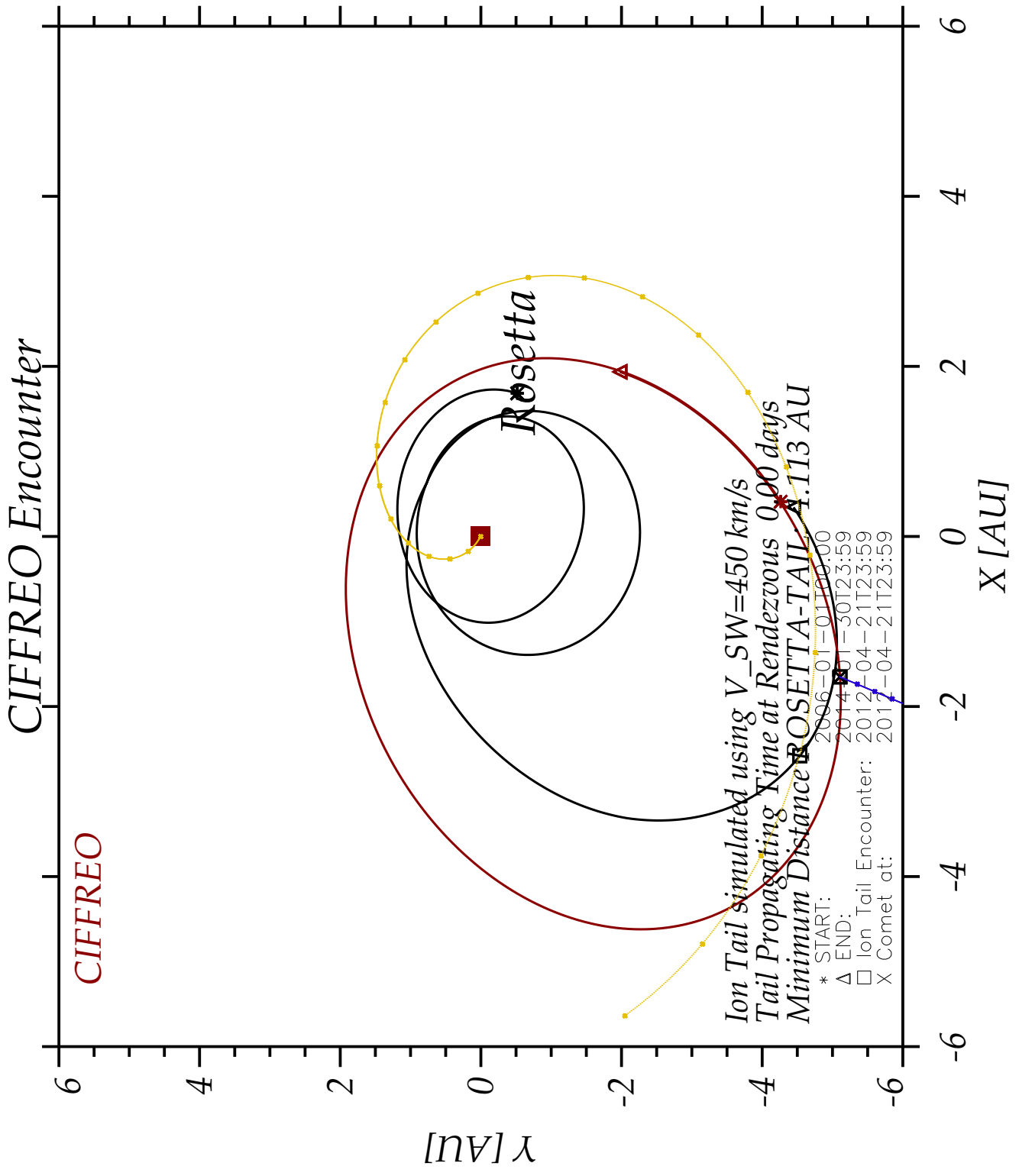


Figure 222: Overview: ROSETTA - CIFFREO

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114 Comet 109P/SWIFT-TUTTLE

Comet: 109P/SWIFT-TUTTLE
No Encounter below 0.2000AU

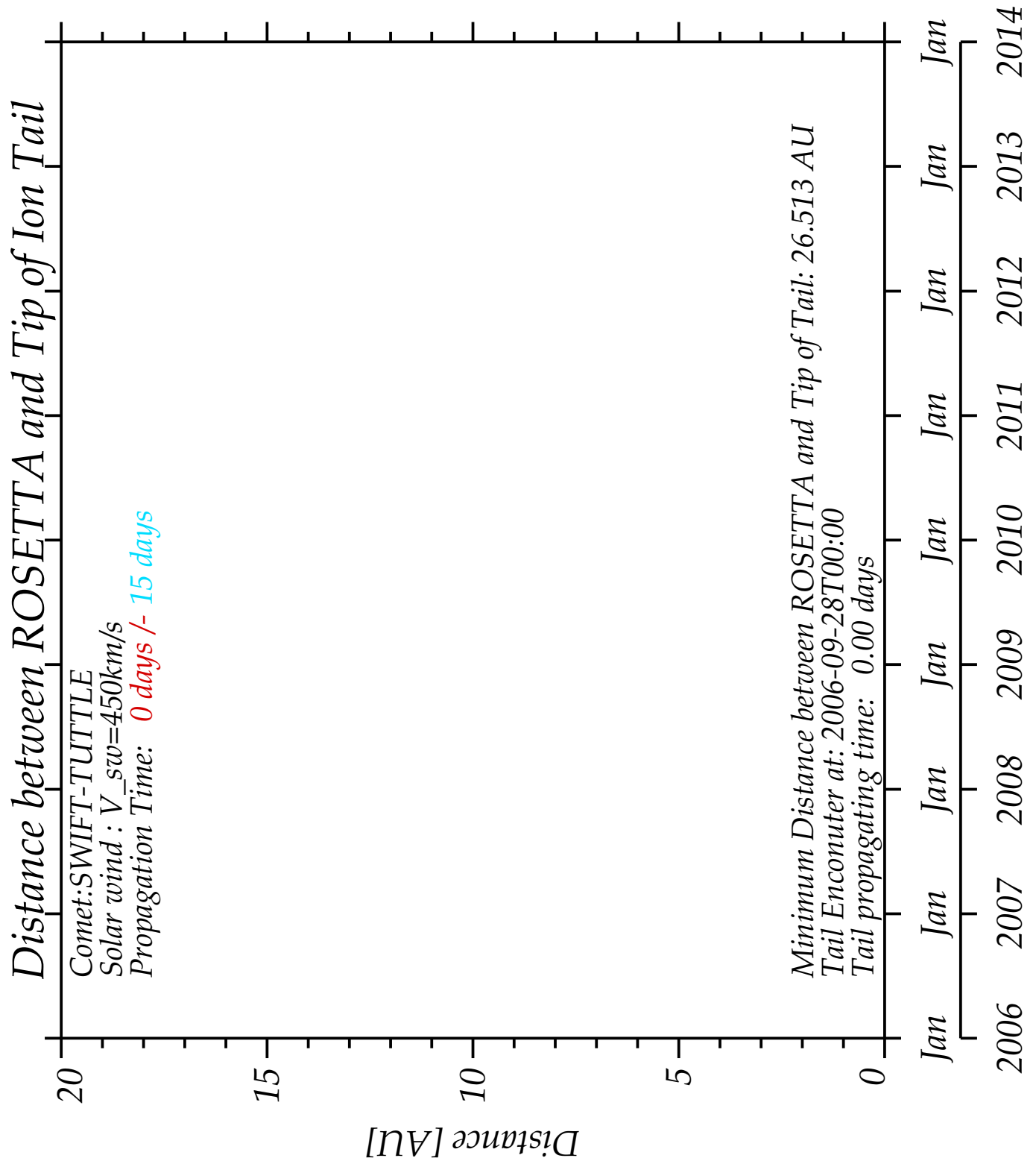


Figure 223: Minimum Distances: ROSETTA - SWIFT-TUTTLE

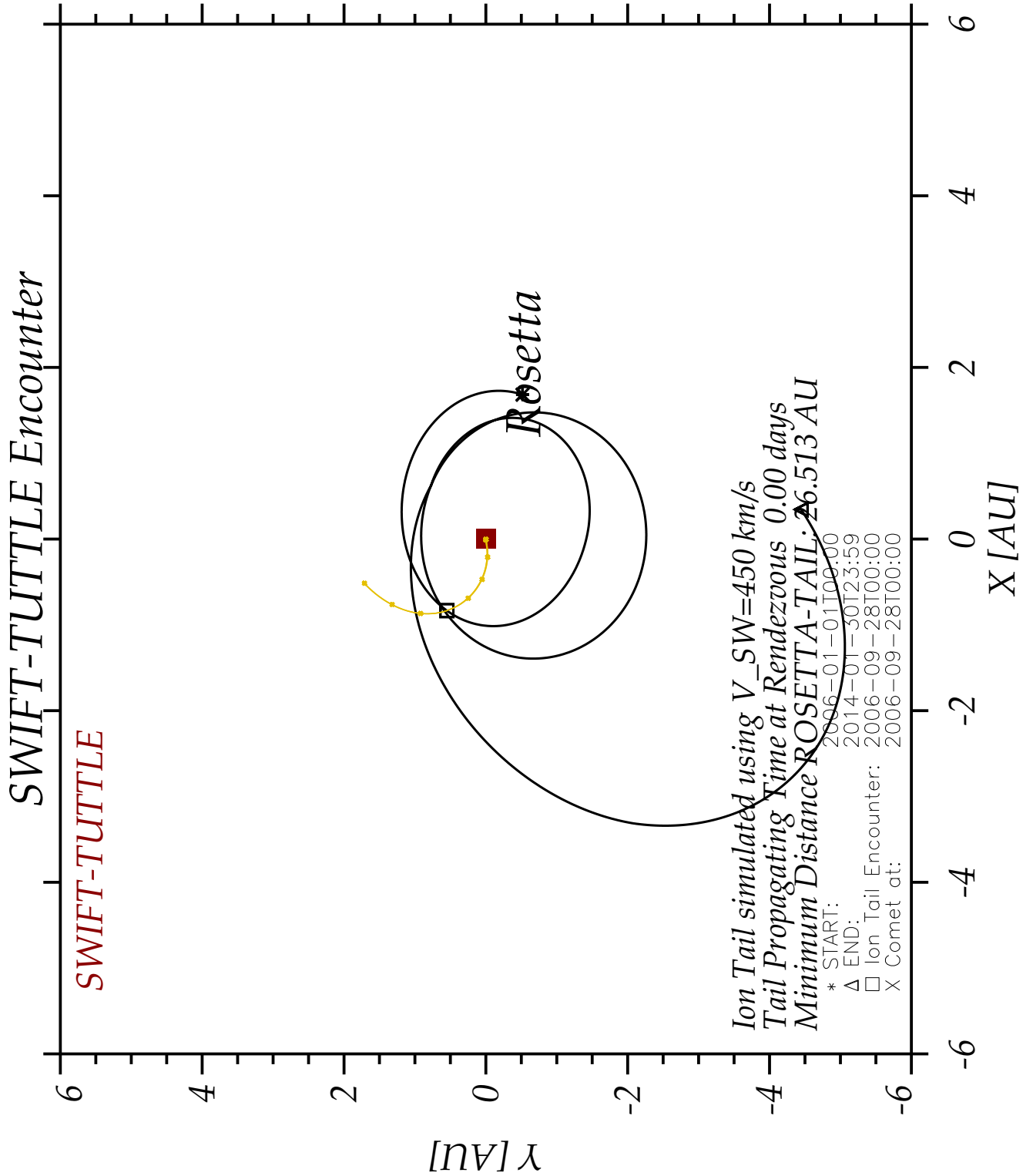


Figure 224: Overview: ROSETTA - SWIFT-TUTTLE

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115 Comet 110P/HARTLEY 3

Comet: 110P/HARTLEY 3
No Encounter below 0.2000AU

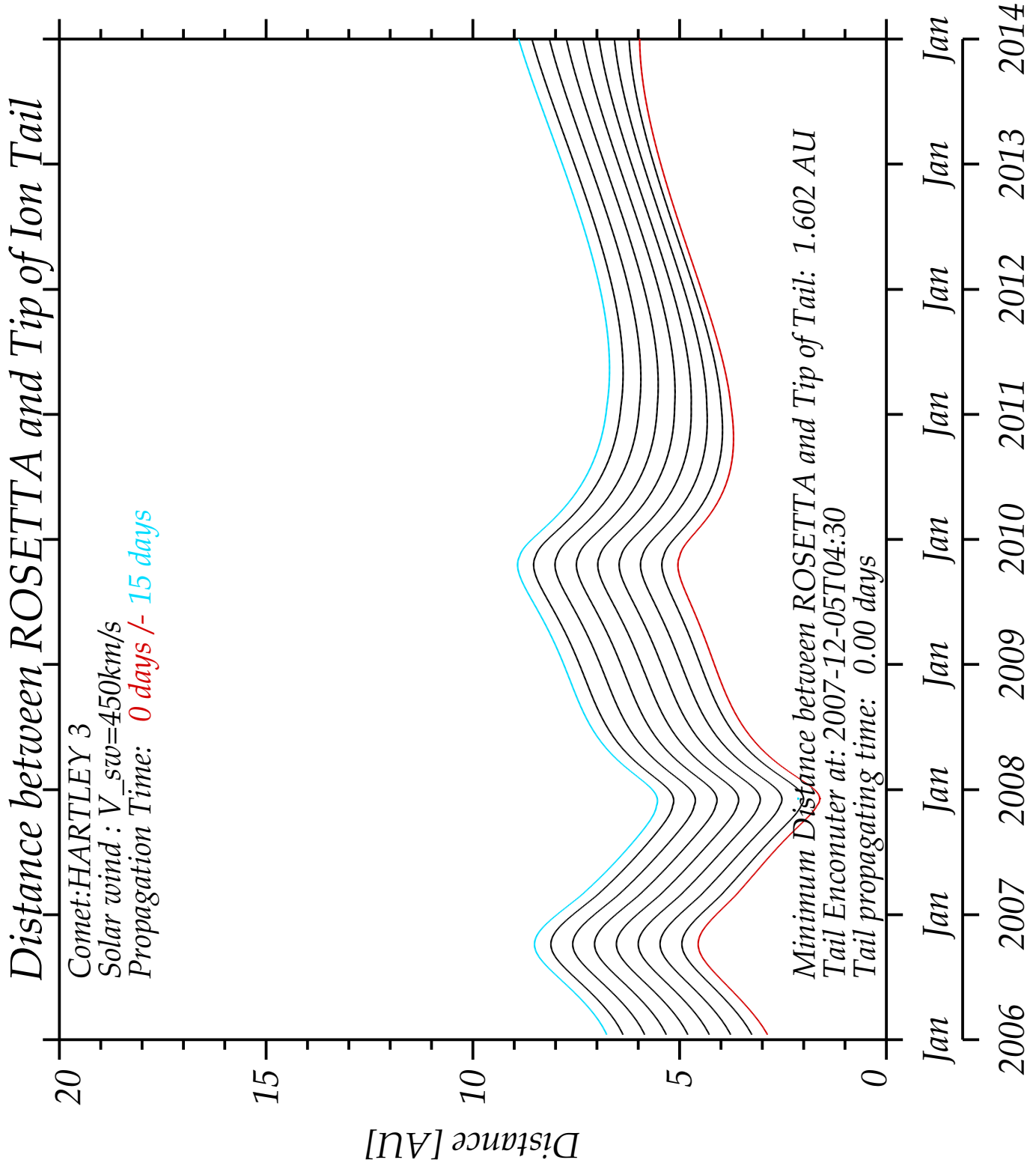


Figure 225: Minimum Distances: ROSETTA - HARTLEY 3

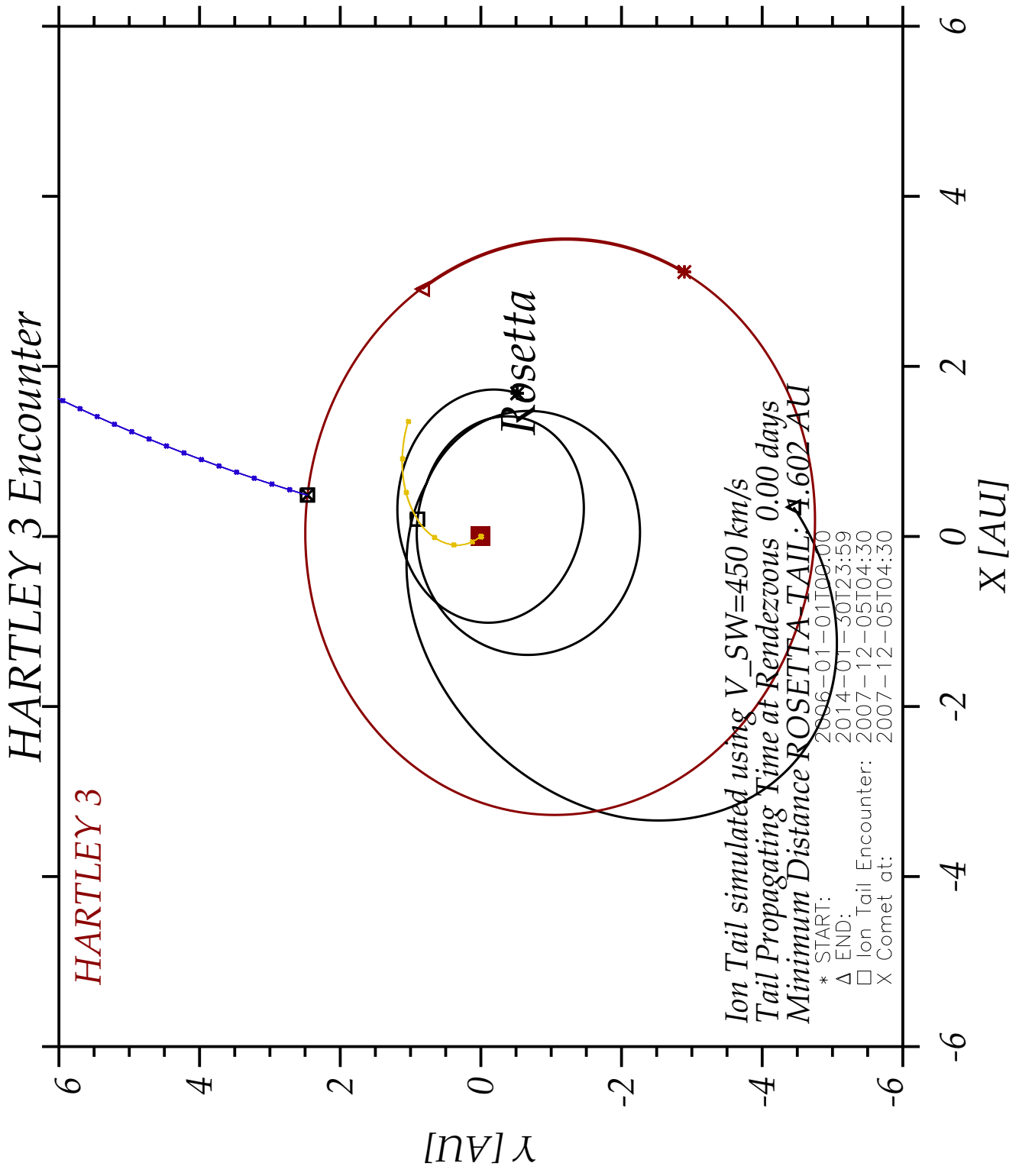


Figure 226: Overview: ROSETTA - HARTLEY 3

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116 Comet 111P/HELIN-ROMAN-CROCKETT

Comet: 111P/HELIN-ROMAN-CROCKETT
No Encounter below 0.2000AU

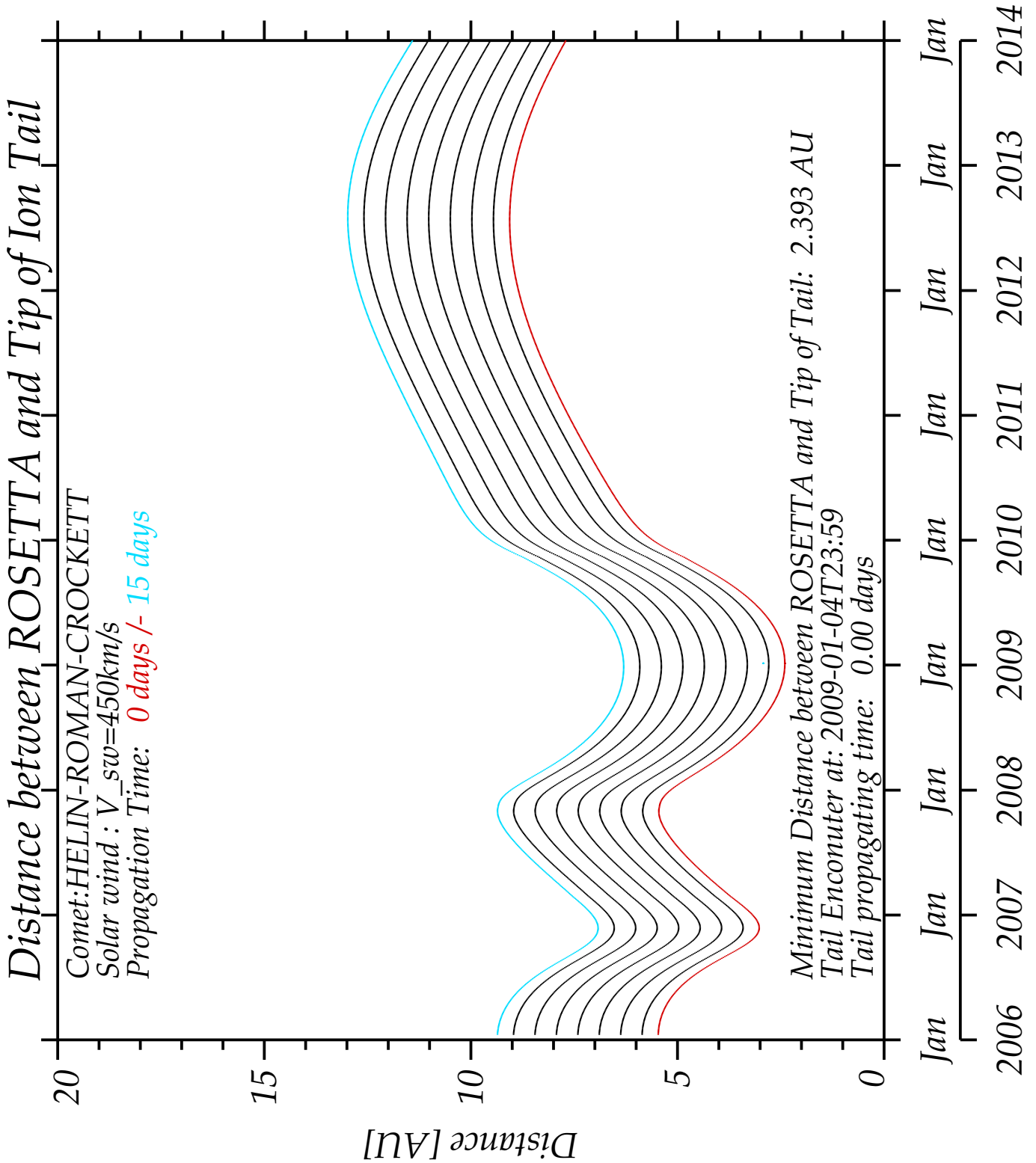


Figure 227: Minimum Distances: ROSETTA - HELIN-ROMAN-CROCKETT

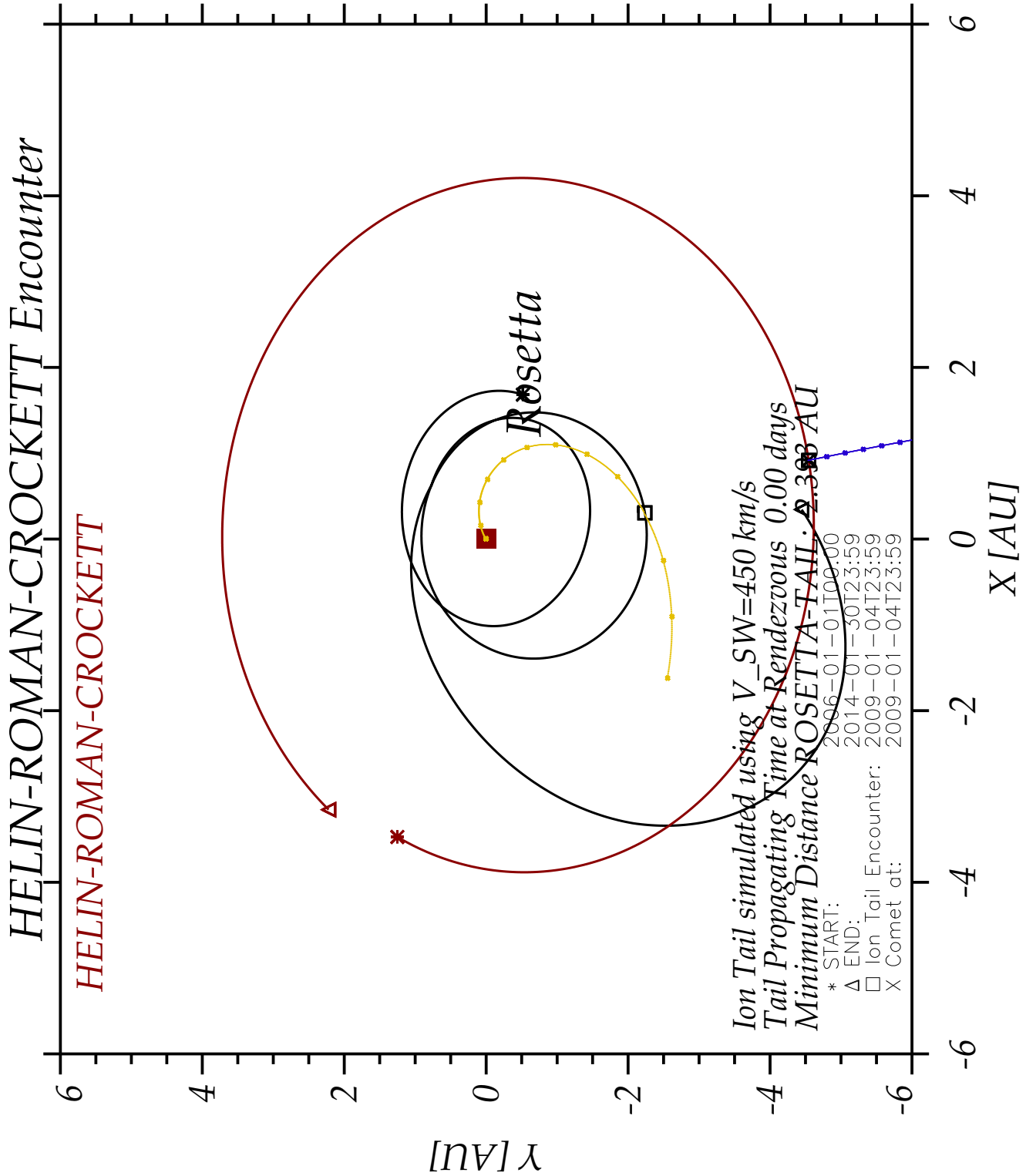


Figure 228: Overview: ROSETTA - HELIN-ROMAN-CROCKETT

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117 Comet 112P/URATA-NIIJIMA

Comet: 112P/URATA-NIIJIMA
No Encounter below 0.2000AU

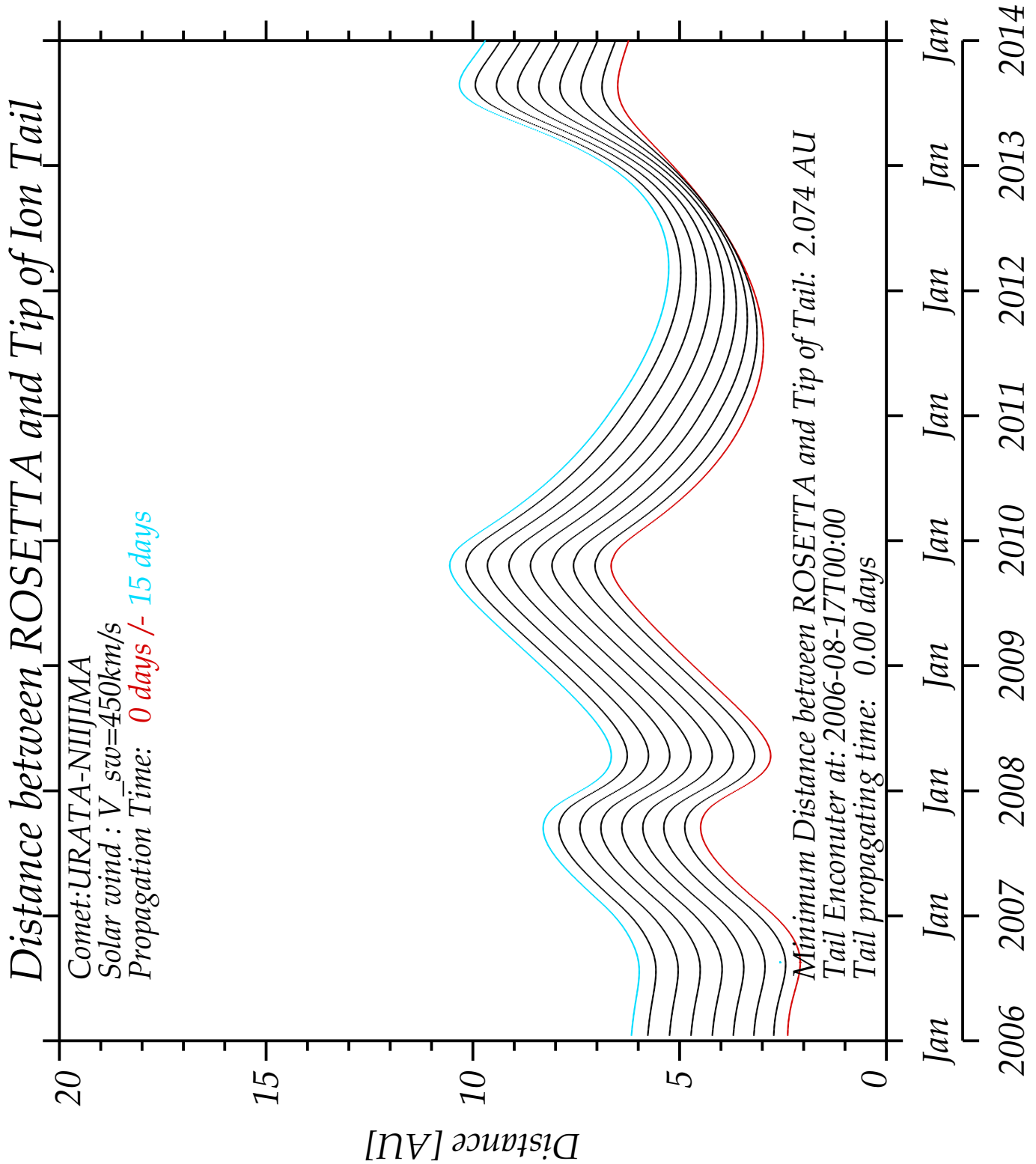


Figure 229: Minimum Distances: ROSETTA - URATA-NIIJIMA

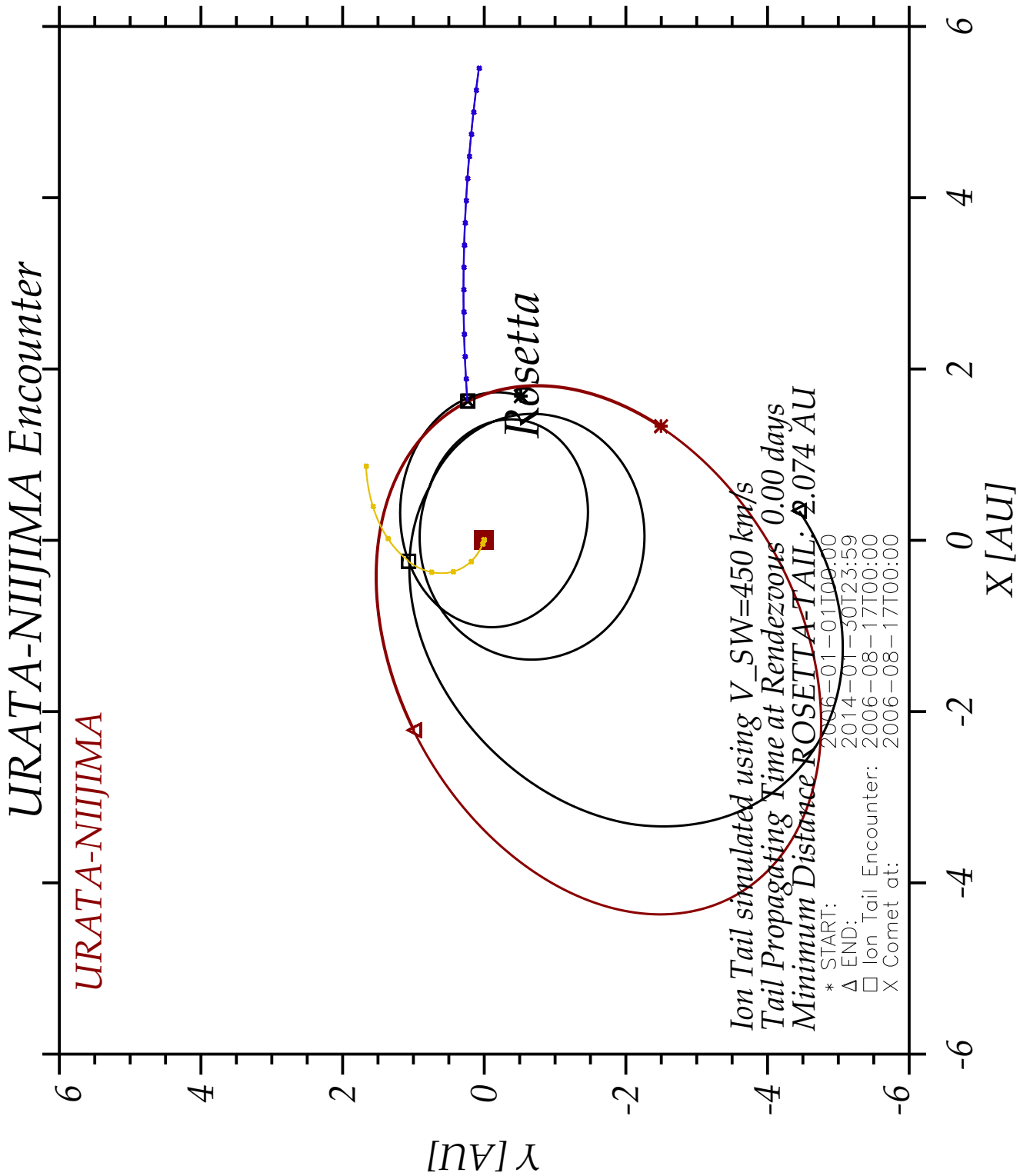


Figure 230: Overview: ROSETTA - URATA-NIIJIMA

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118 Comet 113P/SPITALER

Comet: 113P/SPITALER
No Encounter below 0.2000AU

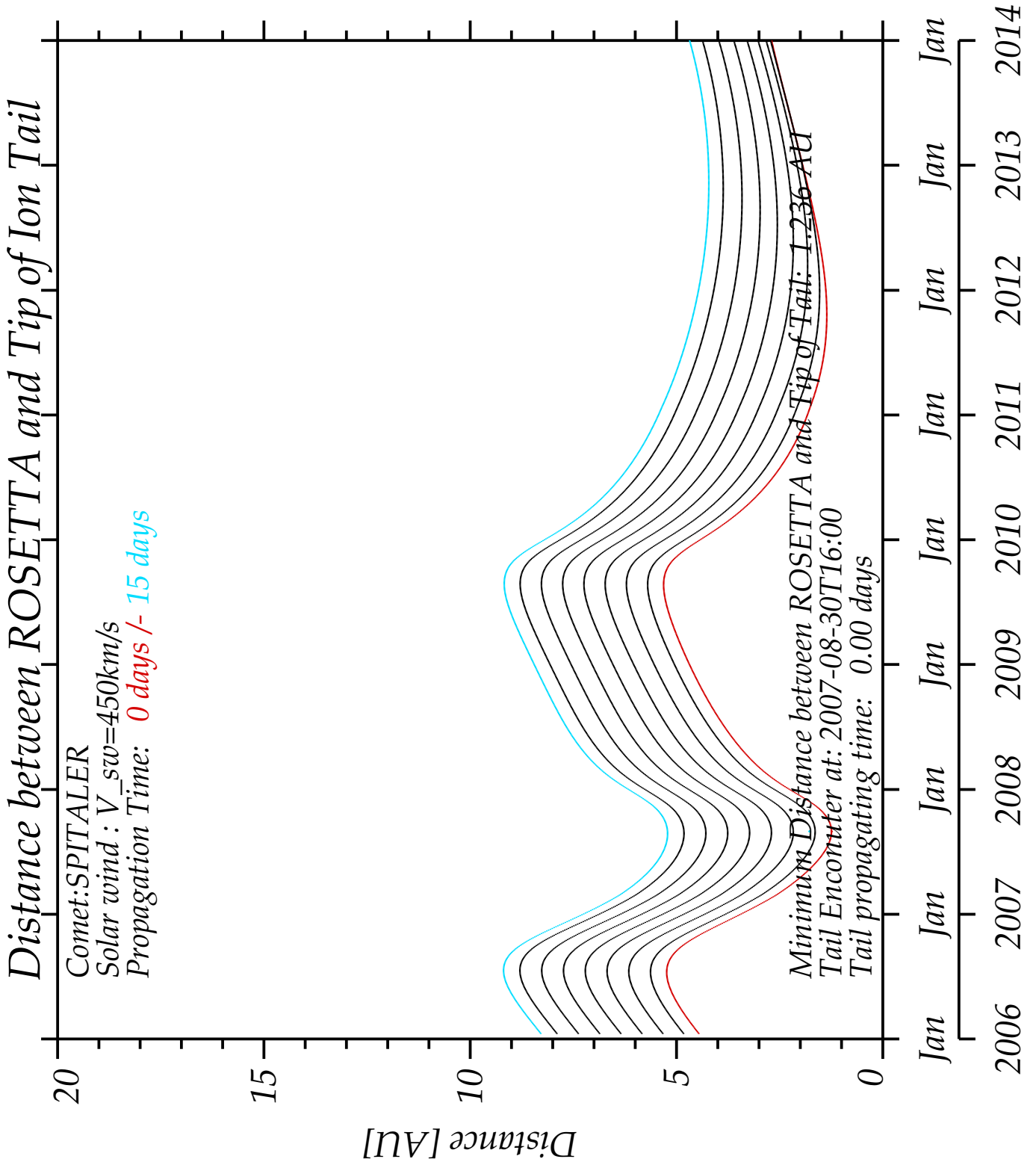


Figure 231: Minimum Distances: ROSETTA - SPITALER

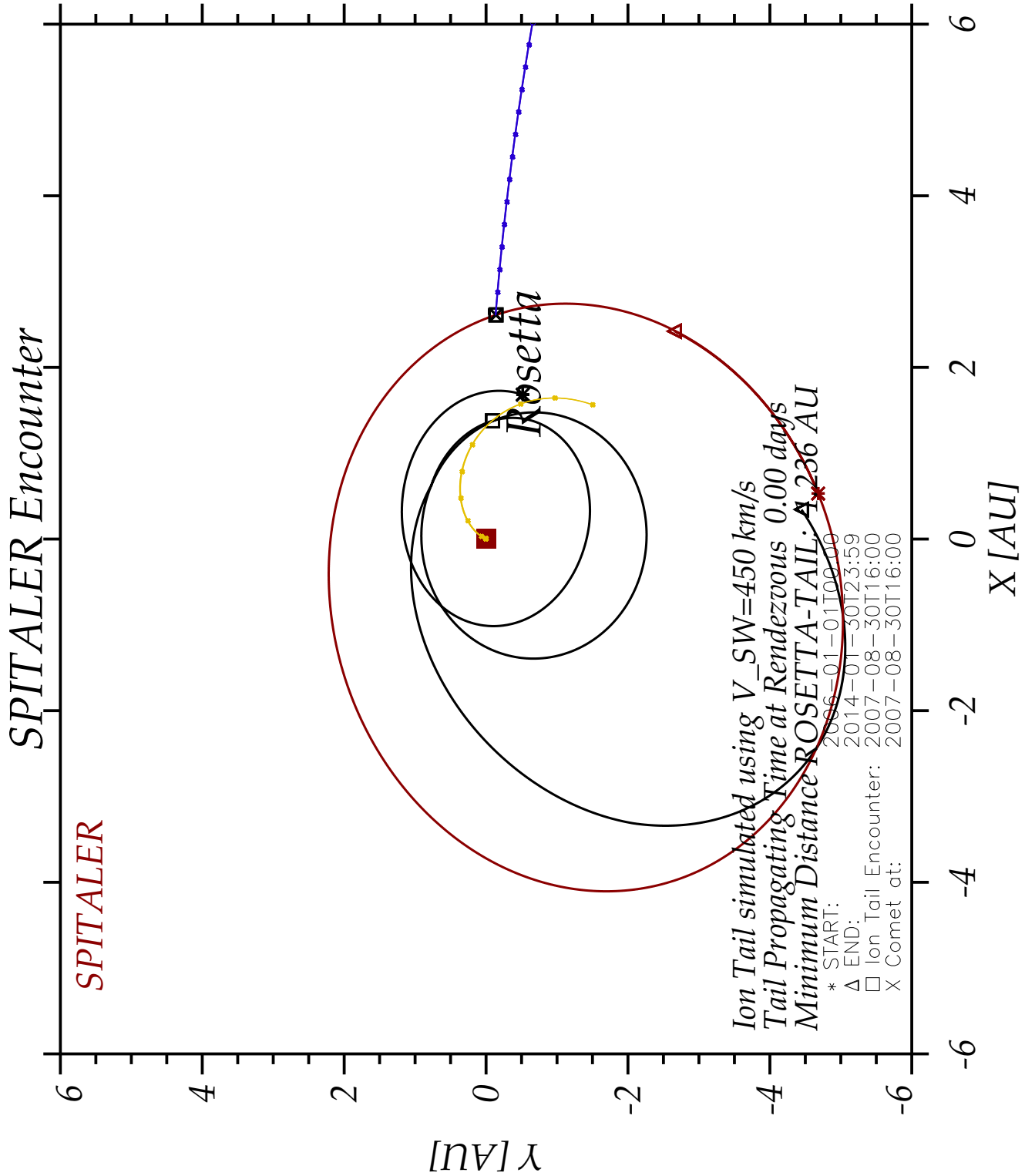


Figure 232: Overview: ROSETTA - SPITALER

<p style="text-align: center;">R O S E T T A</p>	<p>Document: RO-IGEP-TR-0020 Issue: 1 Revision: 2 Date: 2006-10-25 Page: 350</p>
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119 Comet 114P/WISEMAN-SKIFF

<p>Comet: 114P/WISEMAN-SKIFF</p>
<p>No Encounter below 0.2000AU</p>

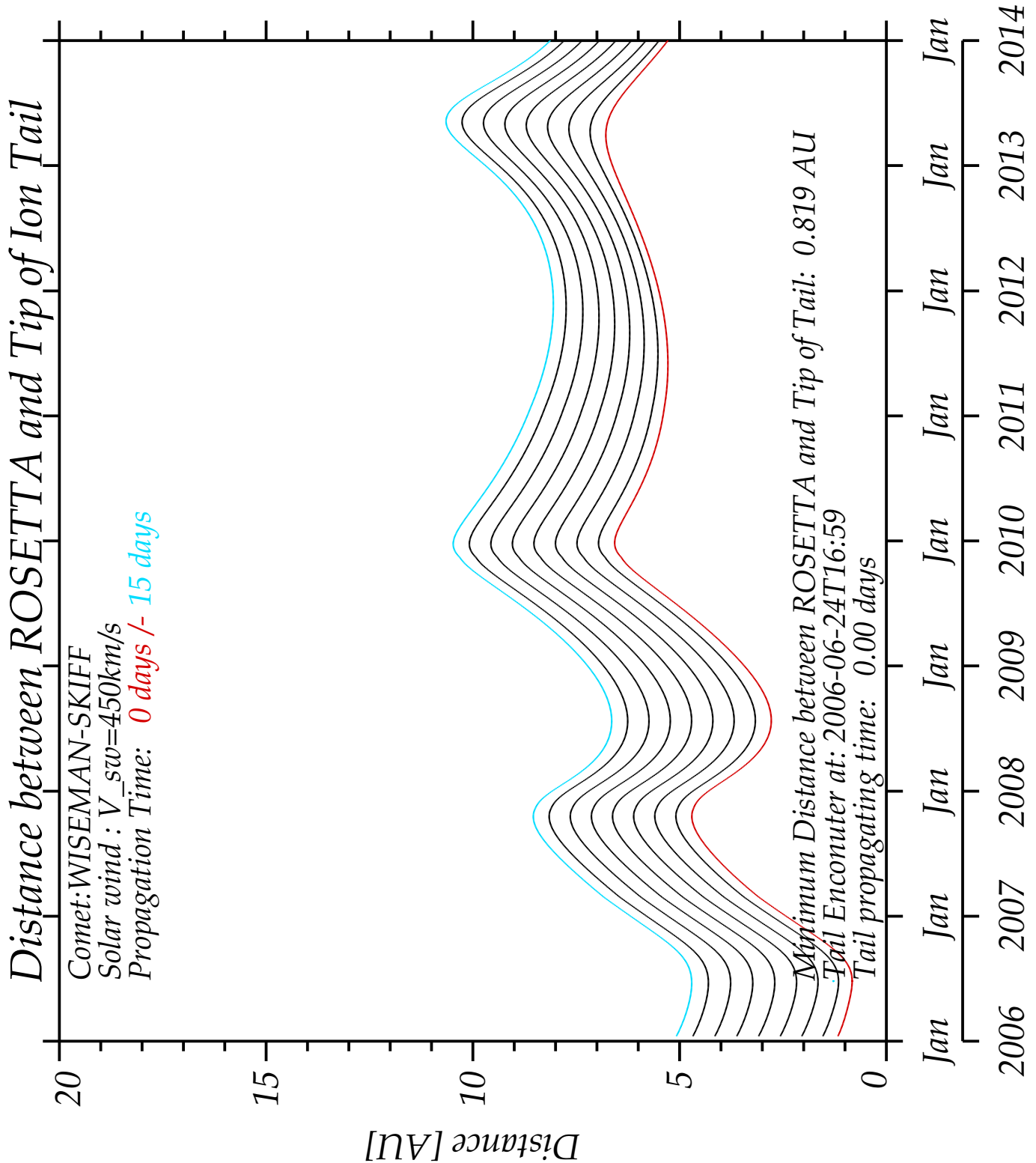


Figure 233: Minimum Distances: ROSETTA - WISEMAN-SKIFF

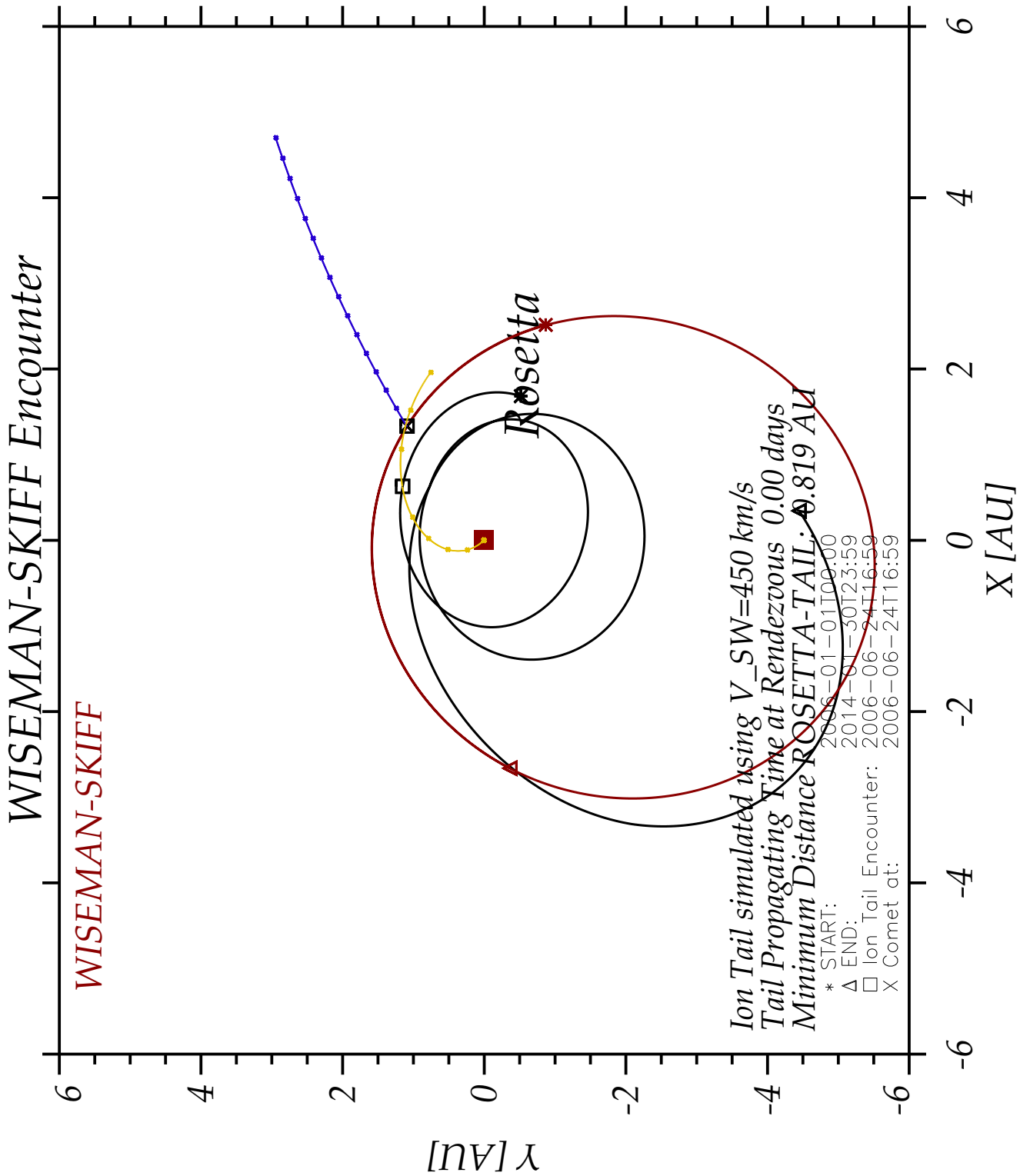


Figure 234: Overview: ROSETTA - WISEMAN-SKIFF

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120 Comet 115P/MAURY

Comet: 115P/MAURY
No Encounter below 0.2000AU

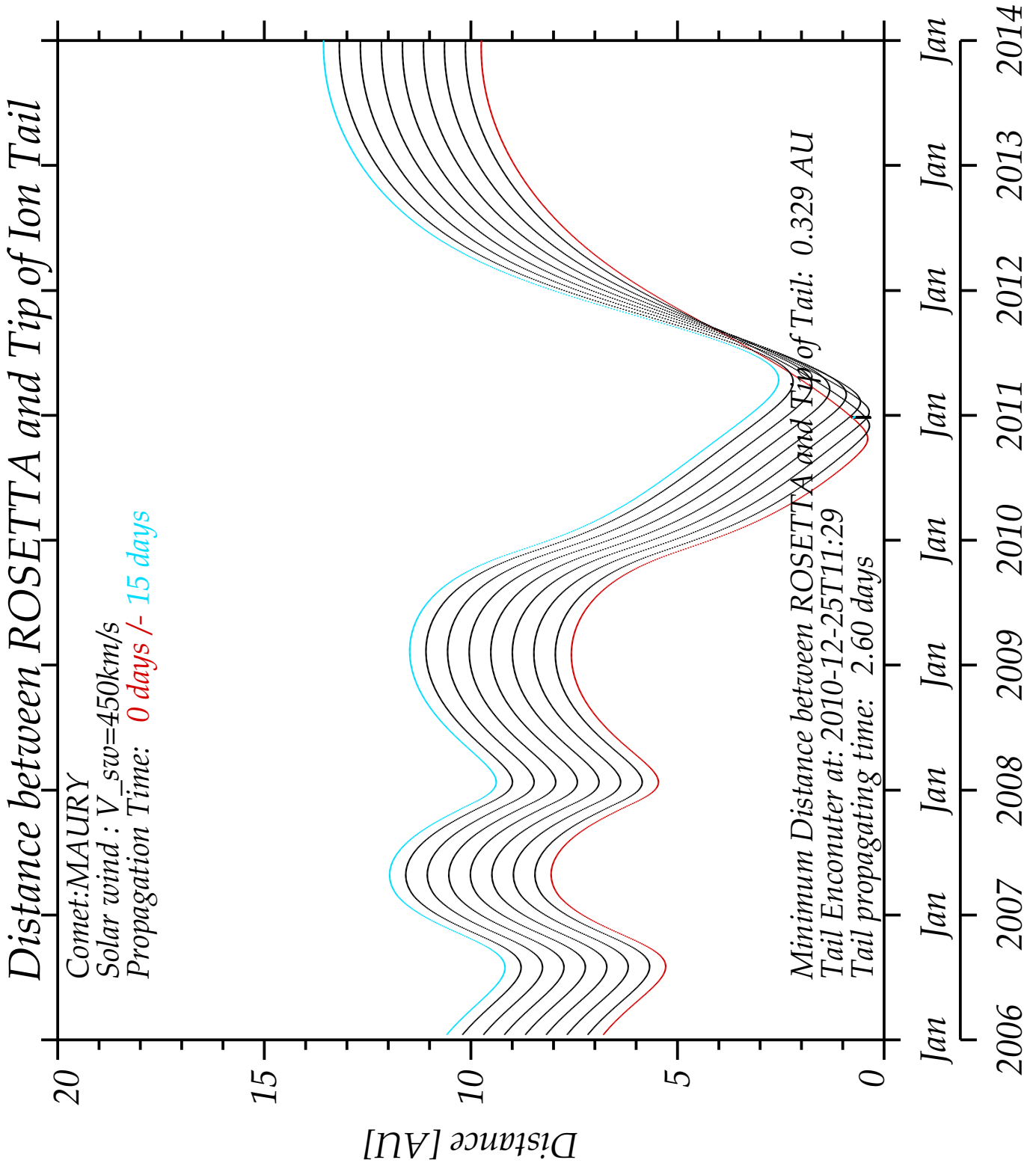


Figure 235: Minimum Distances: ROSETTA - MAURY

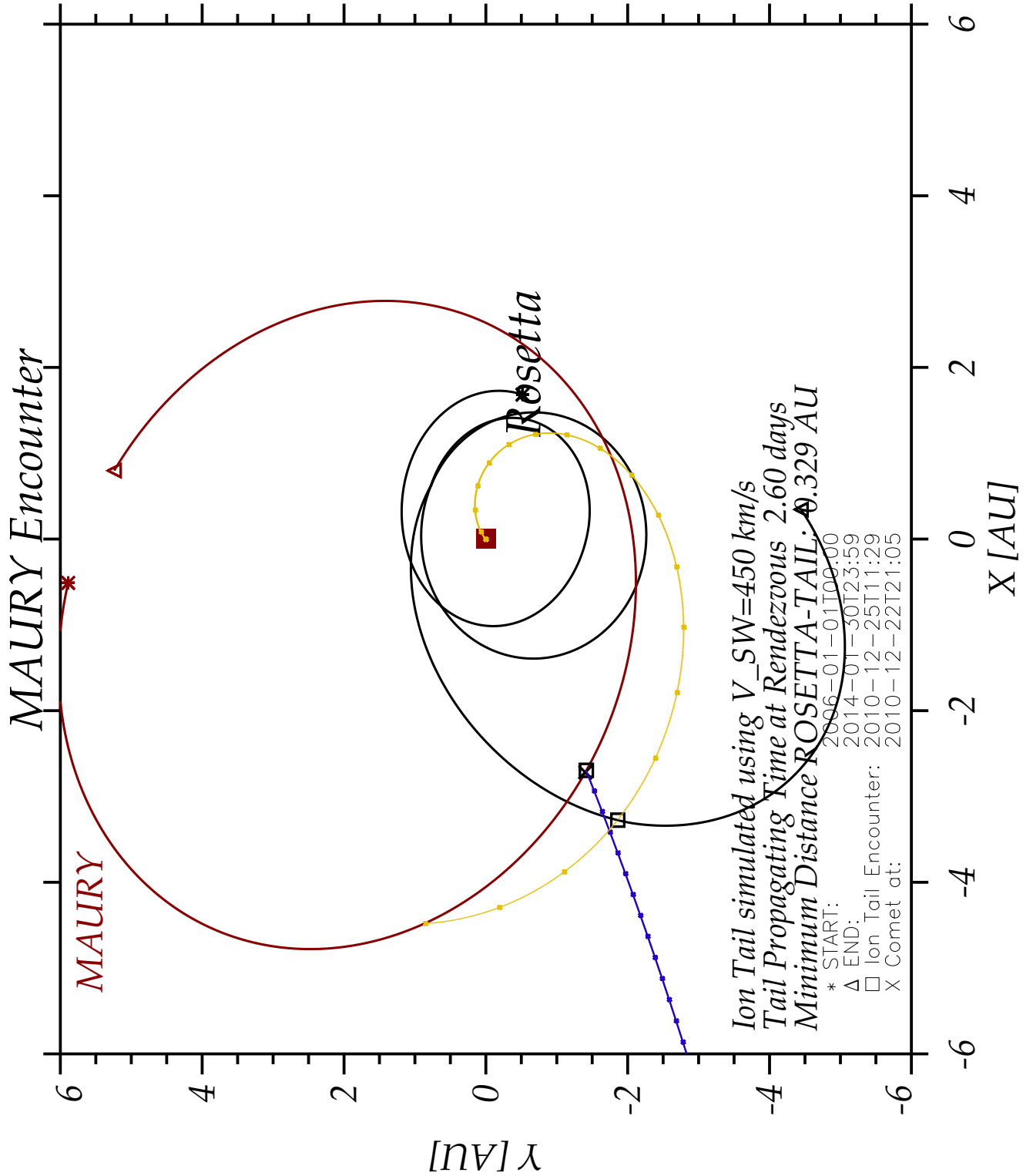


Figure 236: Overview: ROSETTA - MAURY

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121 Comet 116P/WILD 4

Comet: 116P/WILD 4
No Encounter below 0.2000AU

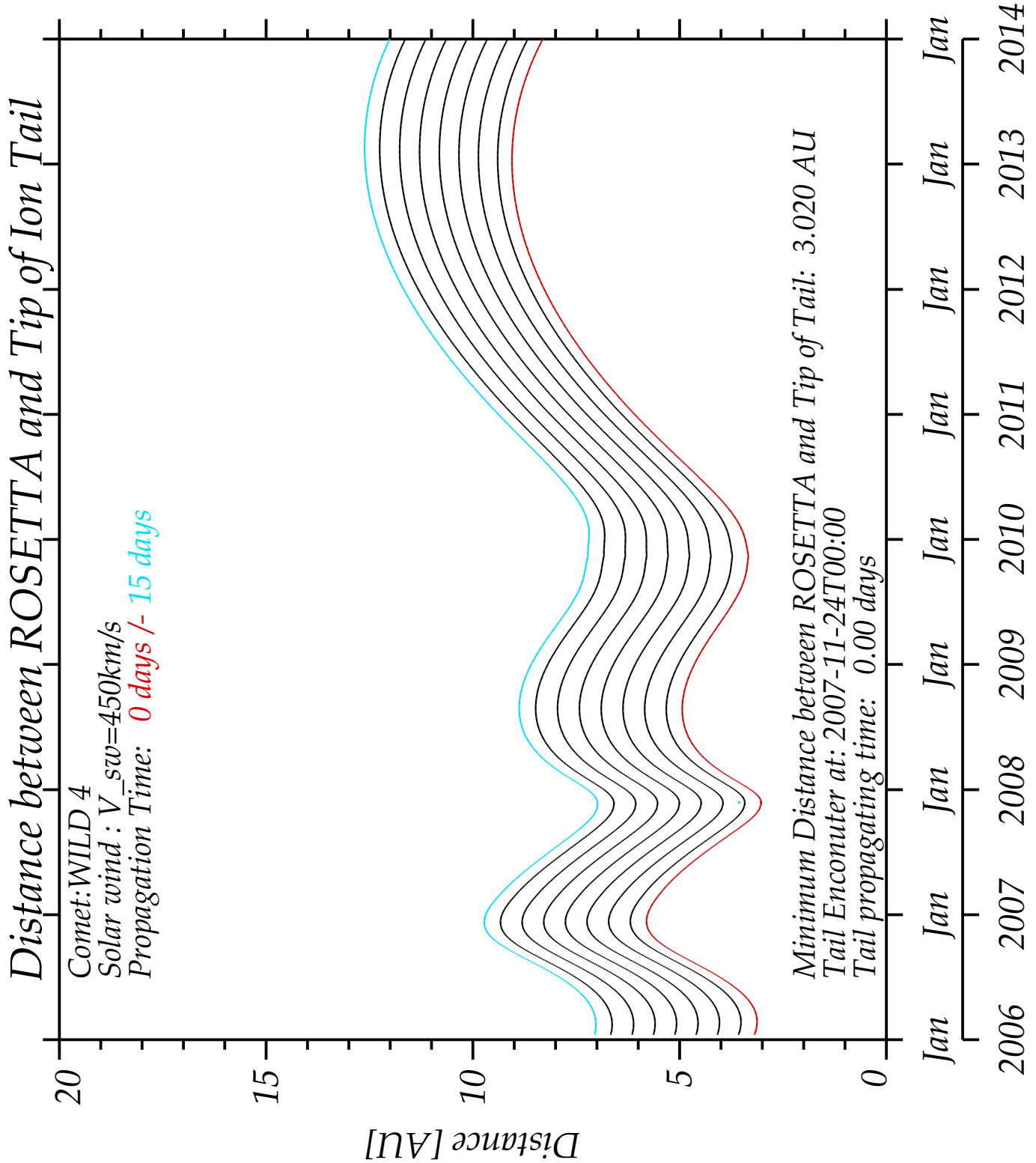


Figure 237: Minimum Distances: ROSETTA - WILD 4

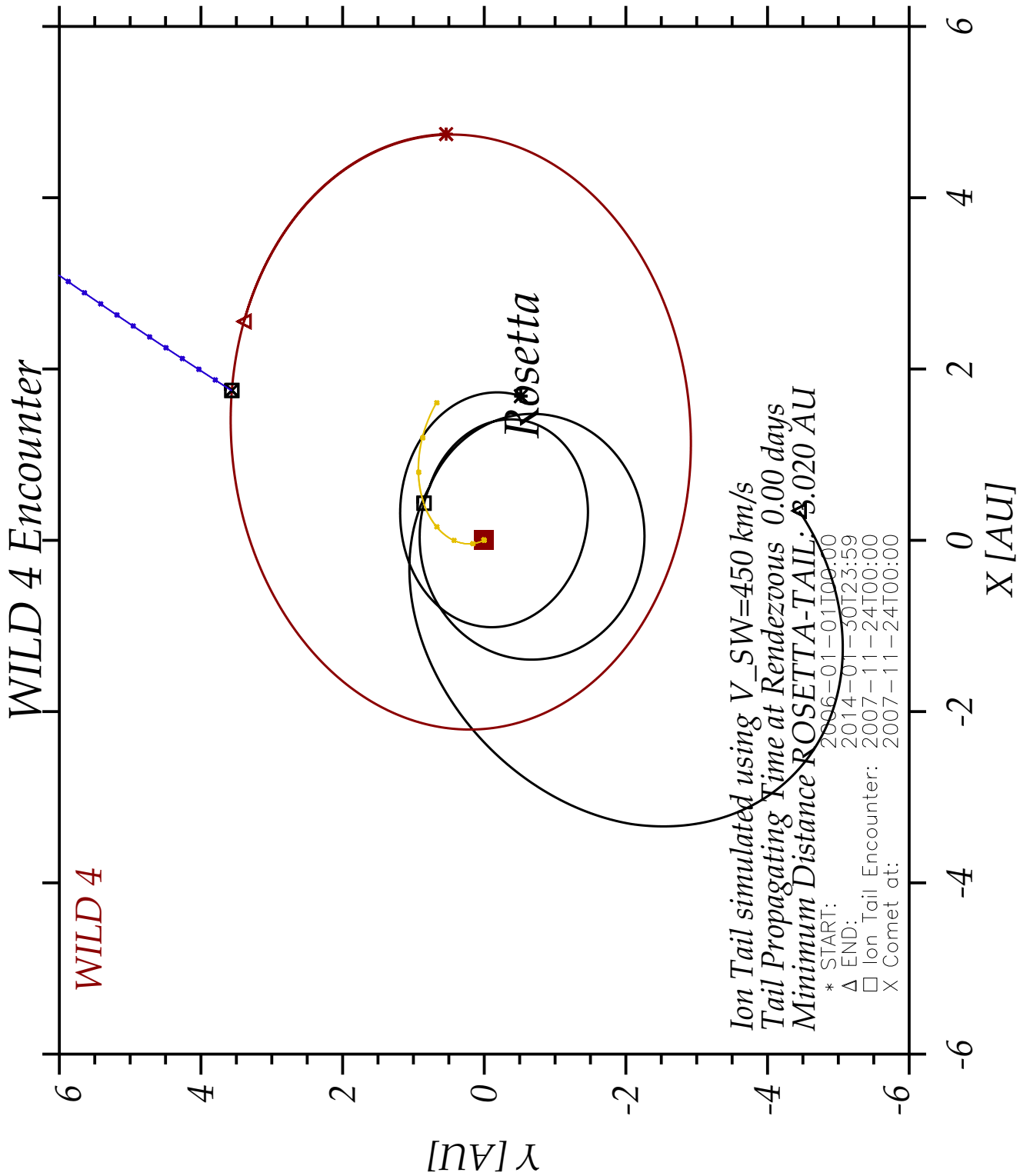


Figure 238: Overview: ROSETTA - WILD 4

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122 Comet 117P/HELIN-ROMAN-ALU 1

Comet: 117P/HELIN-ROMAN-ALU 1
No Encounter below 0.2000AU

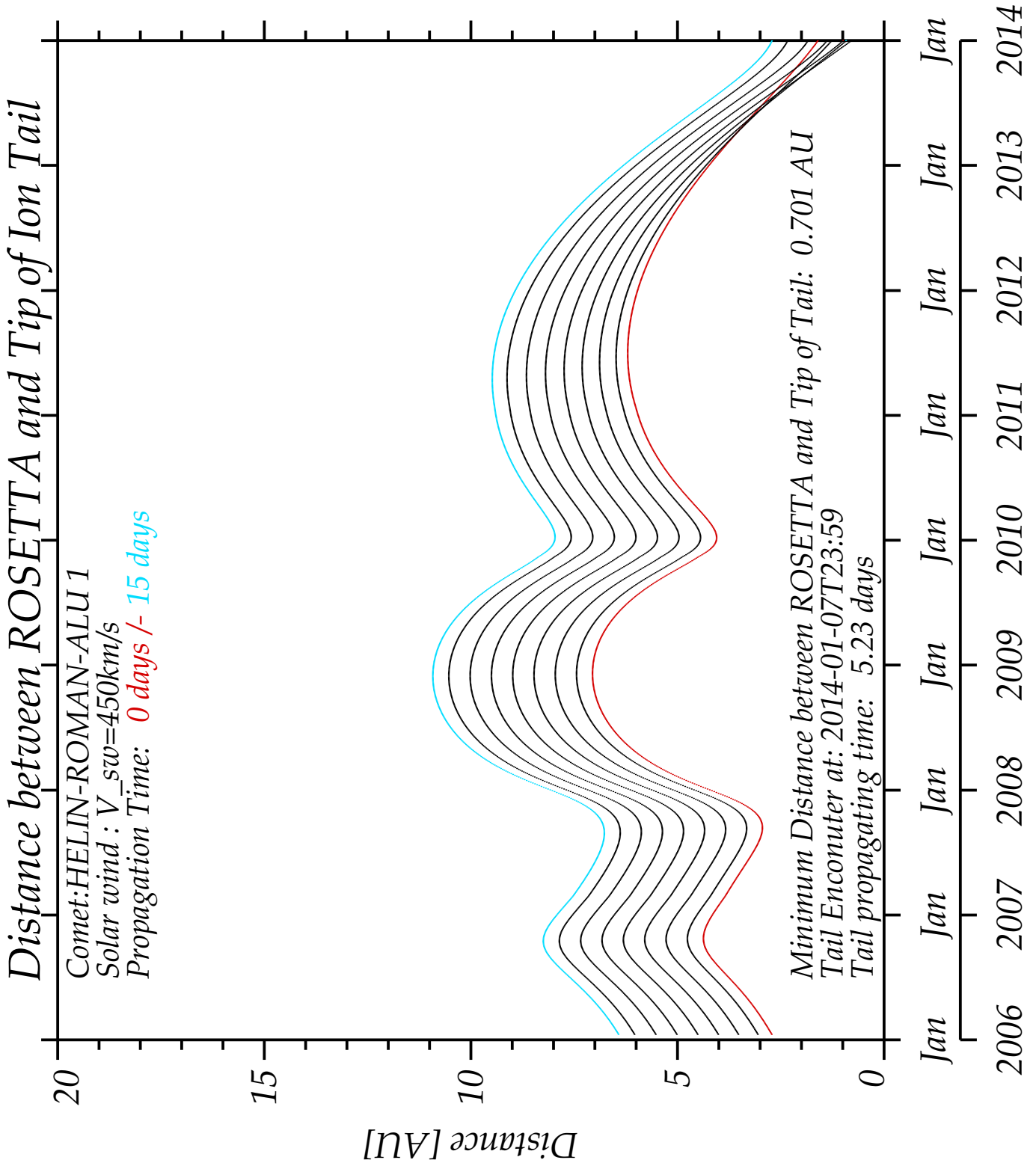


Figure 239: Minimum Distances: ROSETTA - HELIN-ROMAN-ALU 1

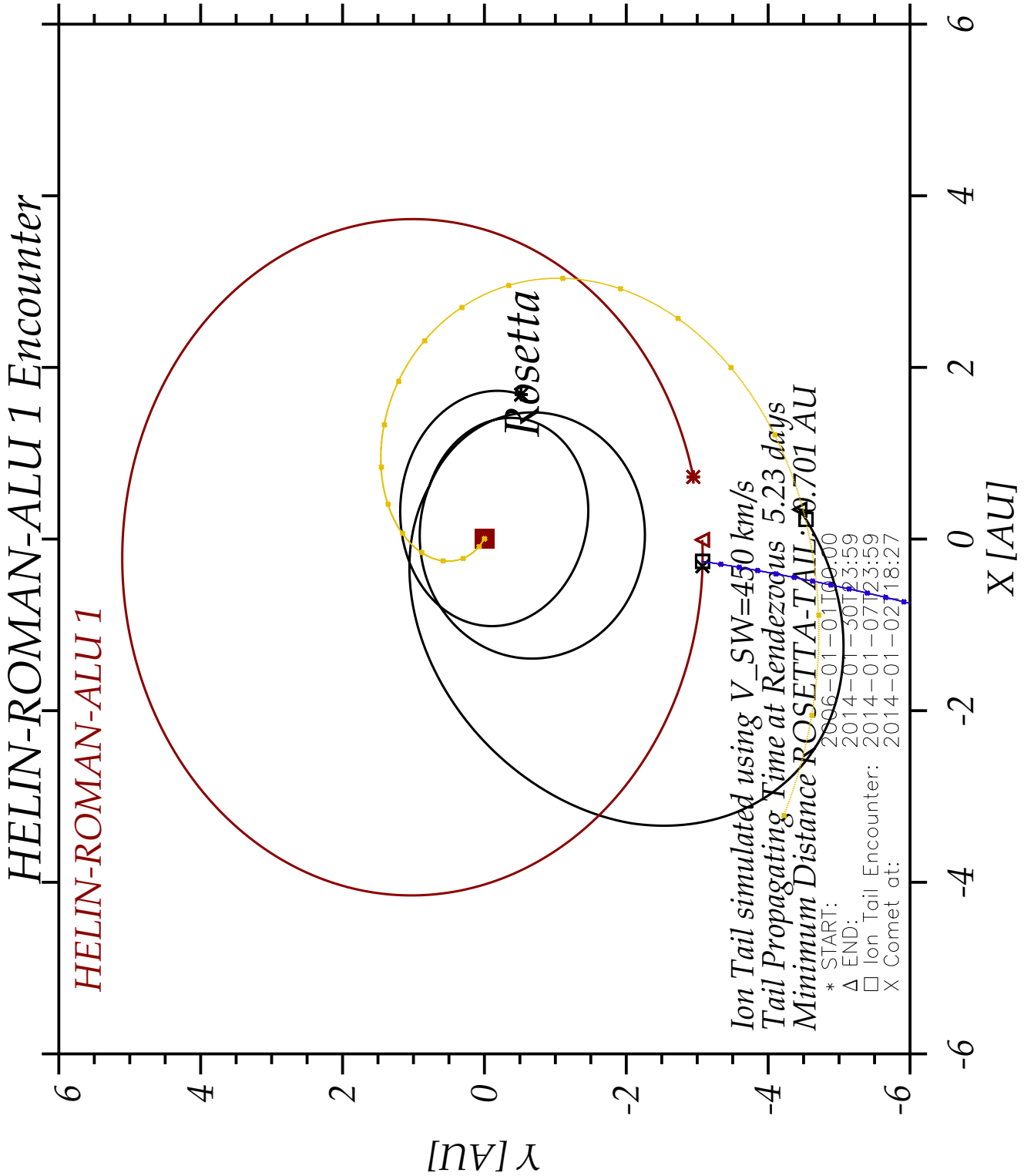


Figure 240: Overview: ROSETTA - HELIN-ROMAN-ALU 1

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123 Comet 118P/SHOEMAKER-LEVY 4

Comet: 118P/SHOEMAKER-LEVY 4
No Encounter below 0.2000AU

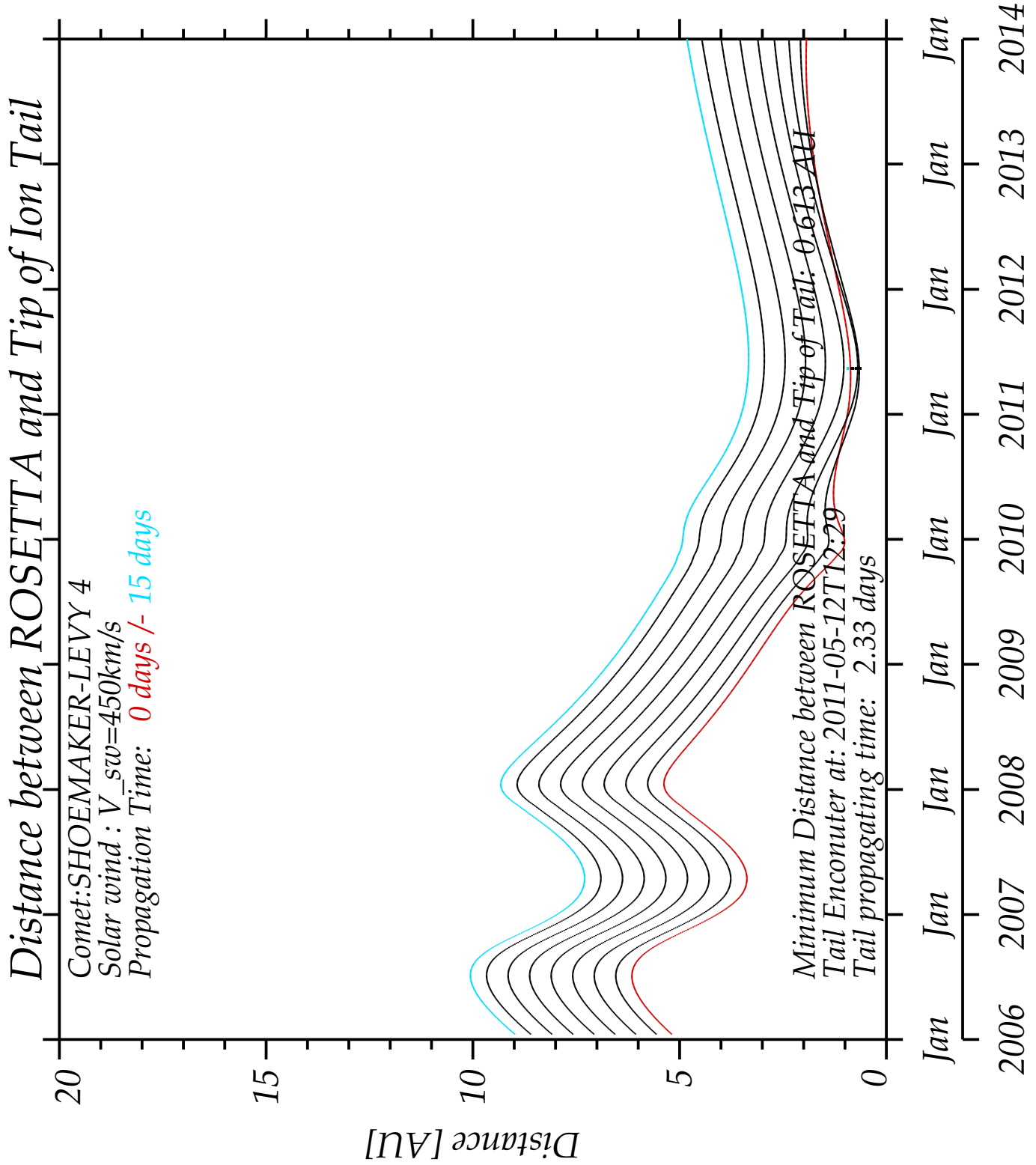


Figure 241: Minimum Distances: ROSETTA - SHOEMAKER-LEVY 4

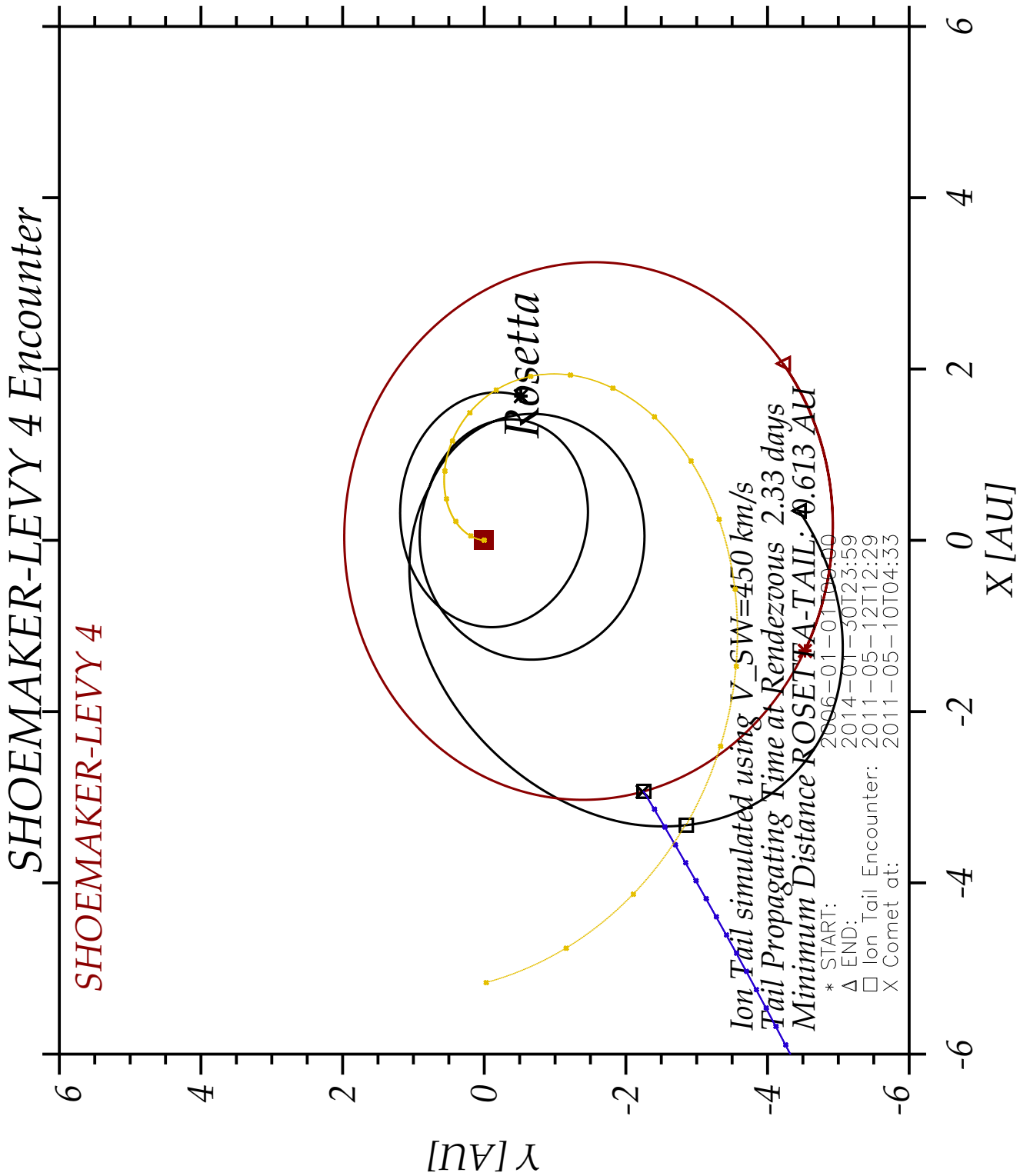


Figure 242: Overview: ROSETTA - SHOEMAKER-LEVY 4

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124 Comet 119P/PARKER-HARTLEY

Comet: 119P/PARKER-HARTLEY
No Encounter below 0.2000AU

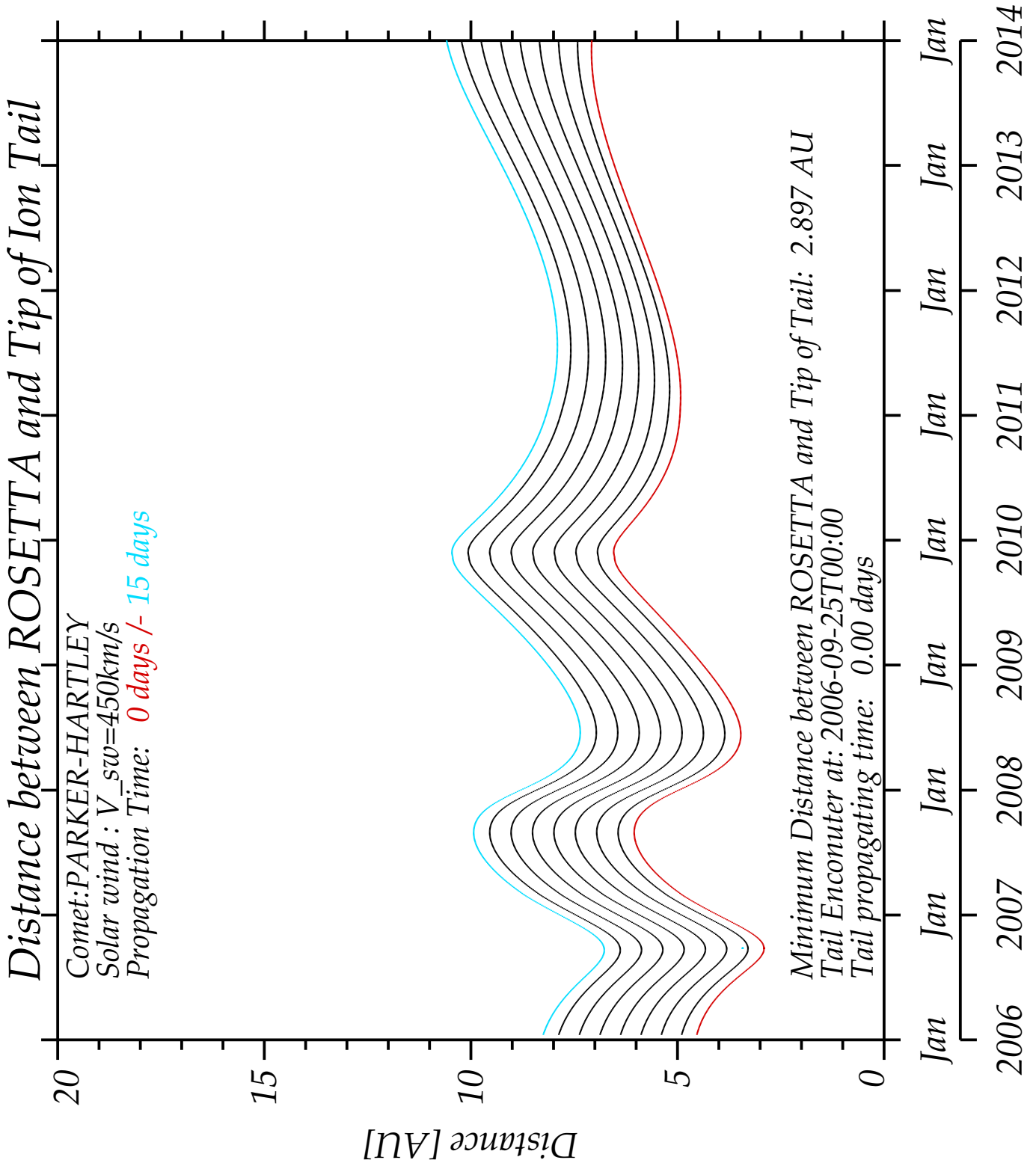


Figure 243: Minimum Distances: ROSETTA - PARKER-HARTLEY

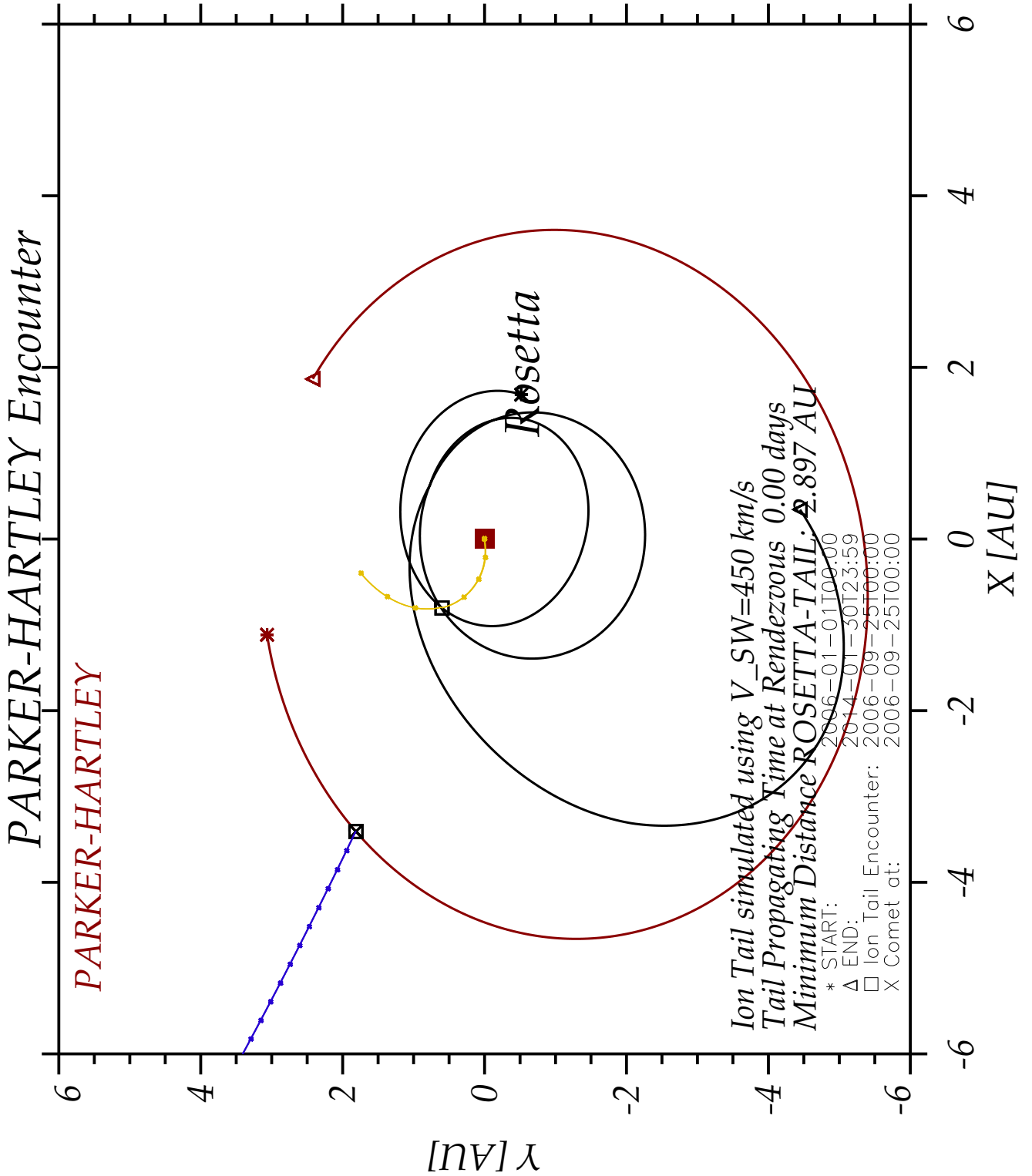


Figure 244: Overview: ROSETTA - PARKER-HARTLEY

<p style="text-align: center;">R O S E T T A</p>	<p>Document: RO-IGEP-TR-0020 Issue: 1 Revision: 2 Date: 2006-10-25 Page: 368</p>
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125 Comet 120P/MUELLER

<p>Comet: 120P/MUELLER</p>
<p>No Encounter below 0.2000AU</p>

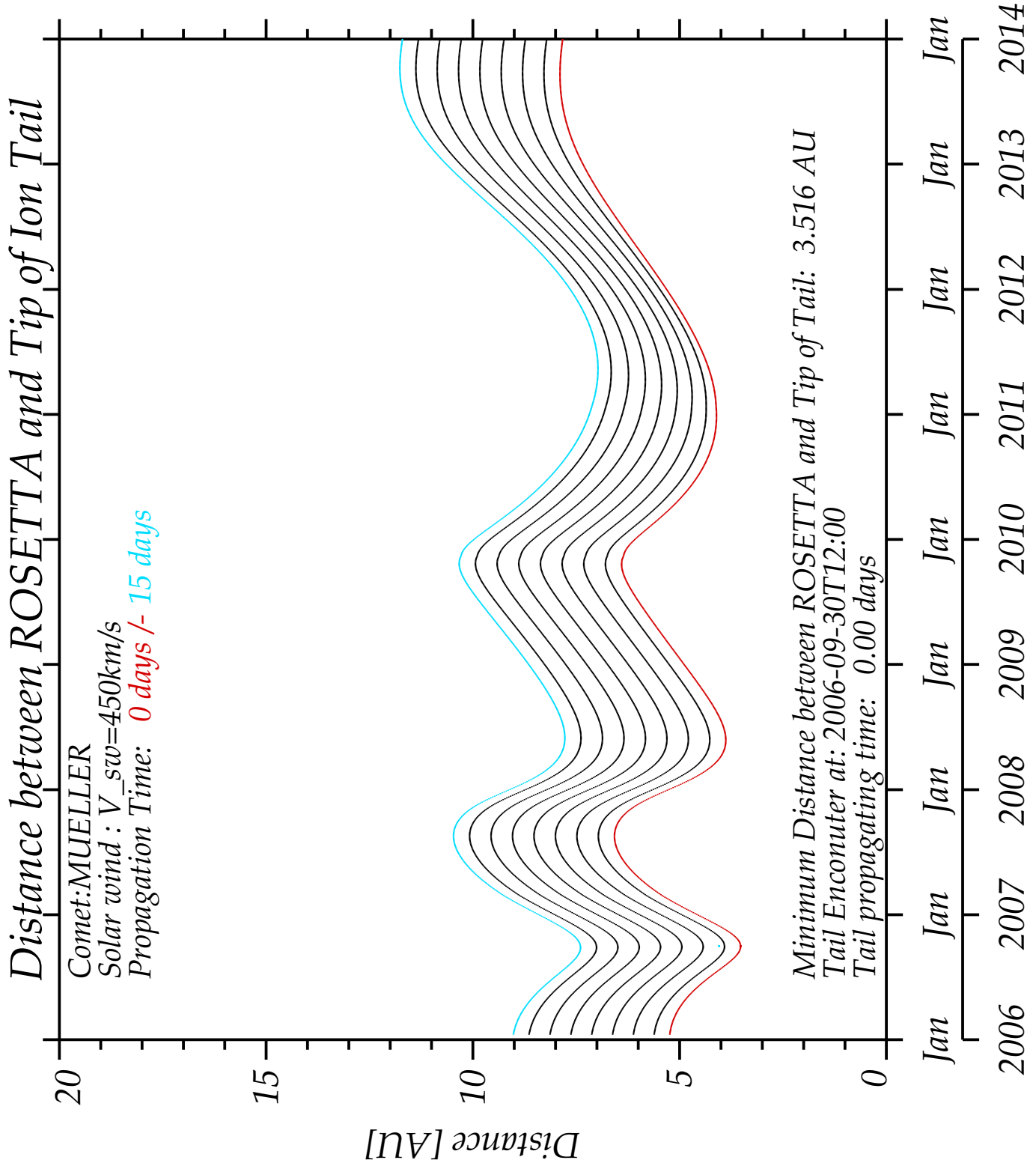


Figure 245: Minimum Distances: ROSETTA - MUELLER

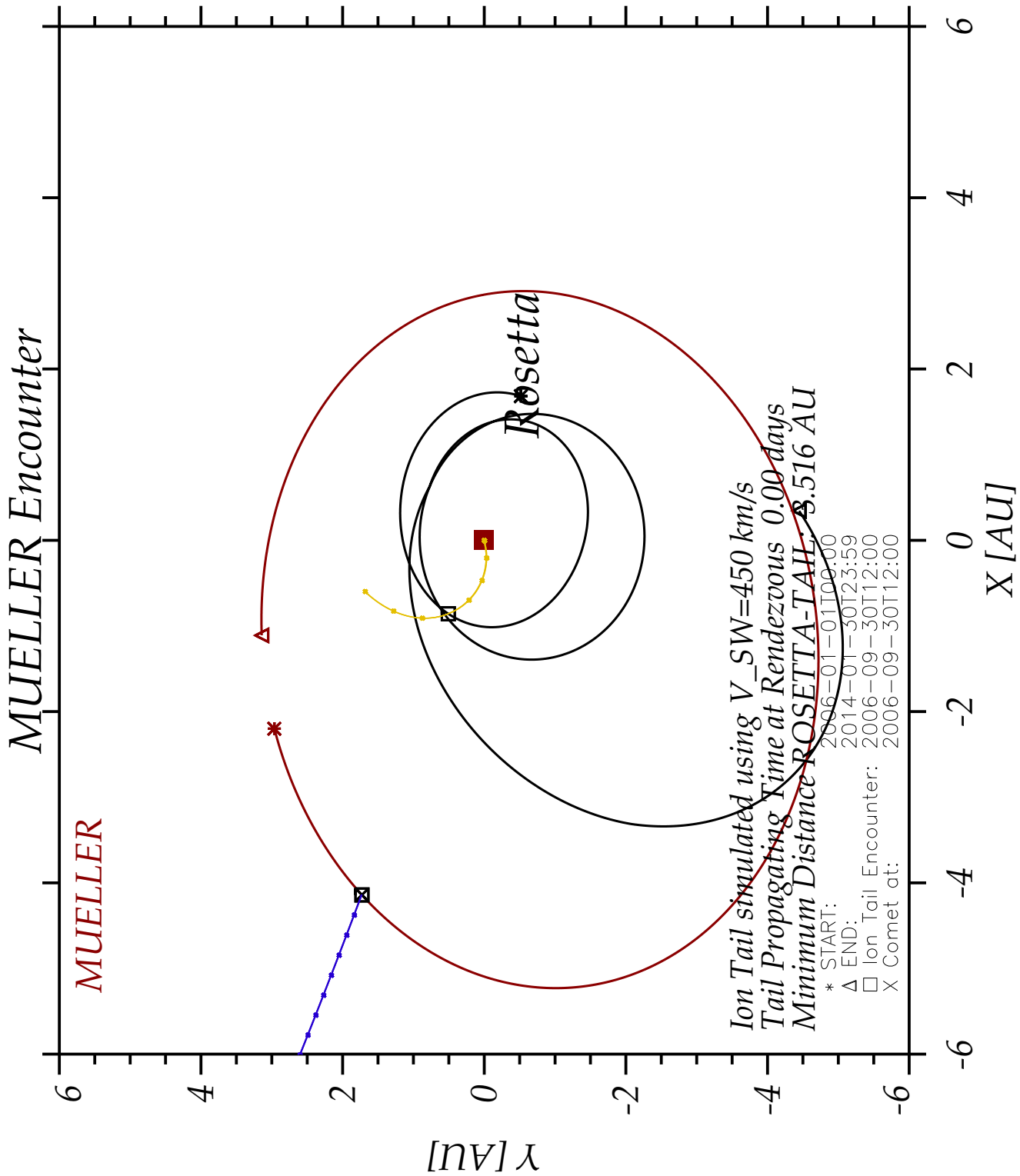


Figure 246: Overview: ROSETTA - MUELLER

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126 Comet 121P/SHOEMAKER-HOLT 2

Comet: 121P/SHOEMAKER-HOLT 2
No Encounter below 0.2000AU

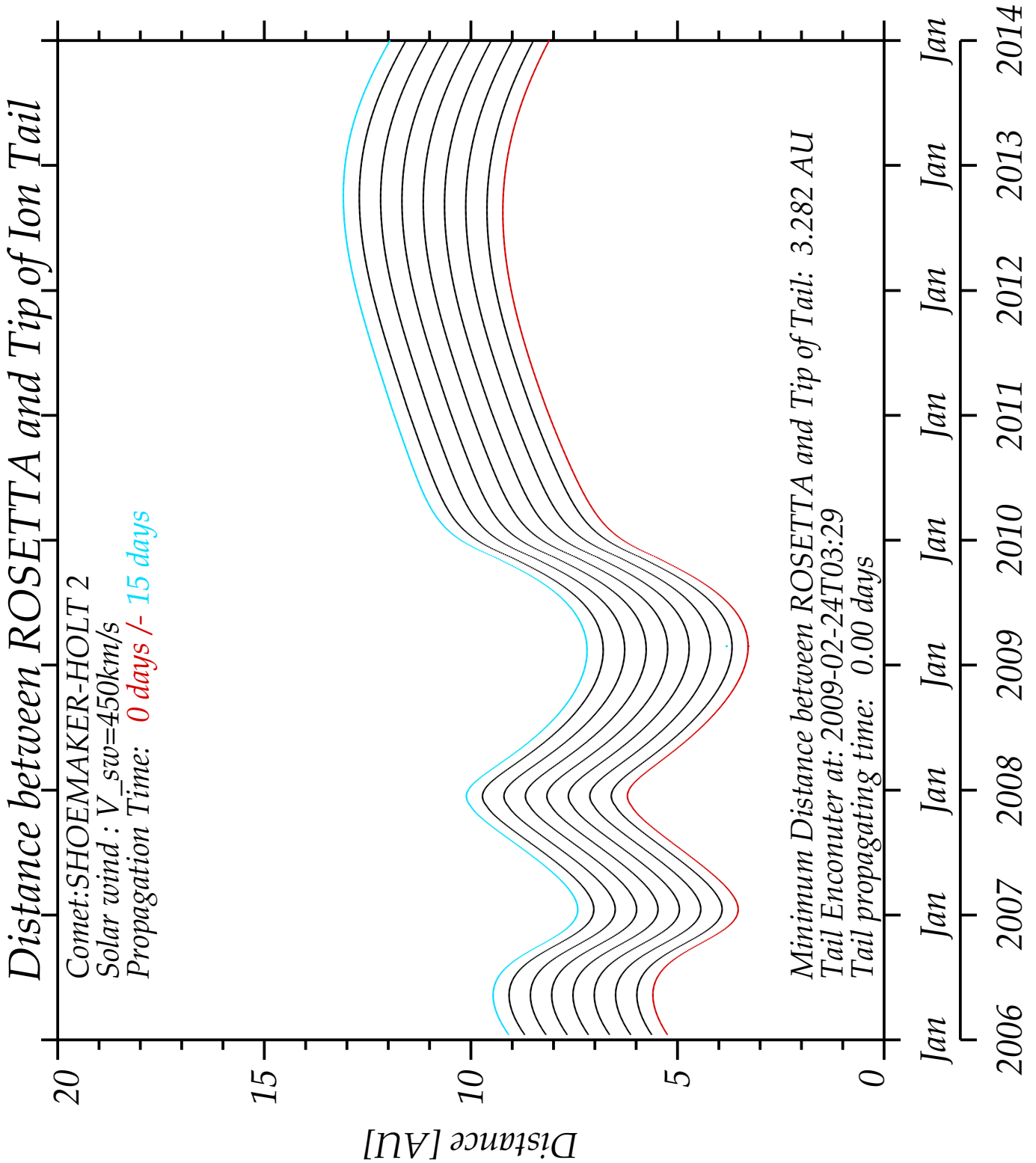


Figure 247: Minimum Distances: ROSETTA - SHOEMAKER-HOLT 2

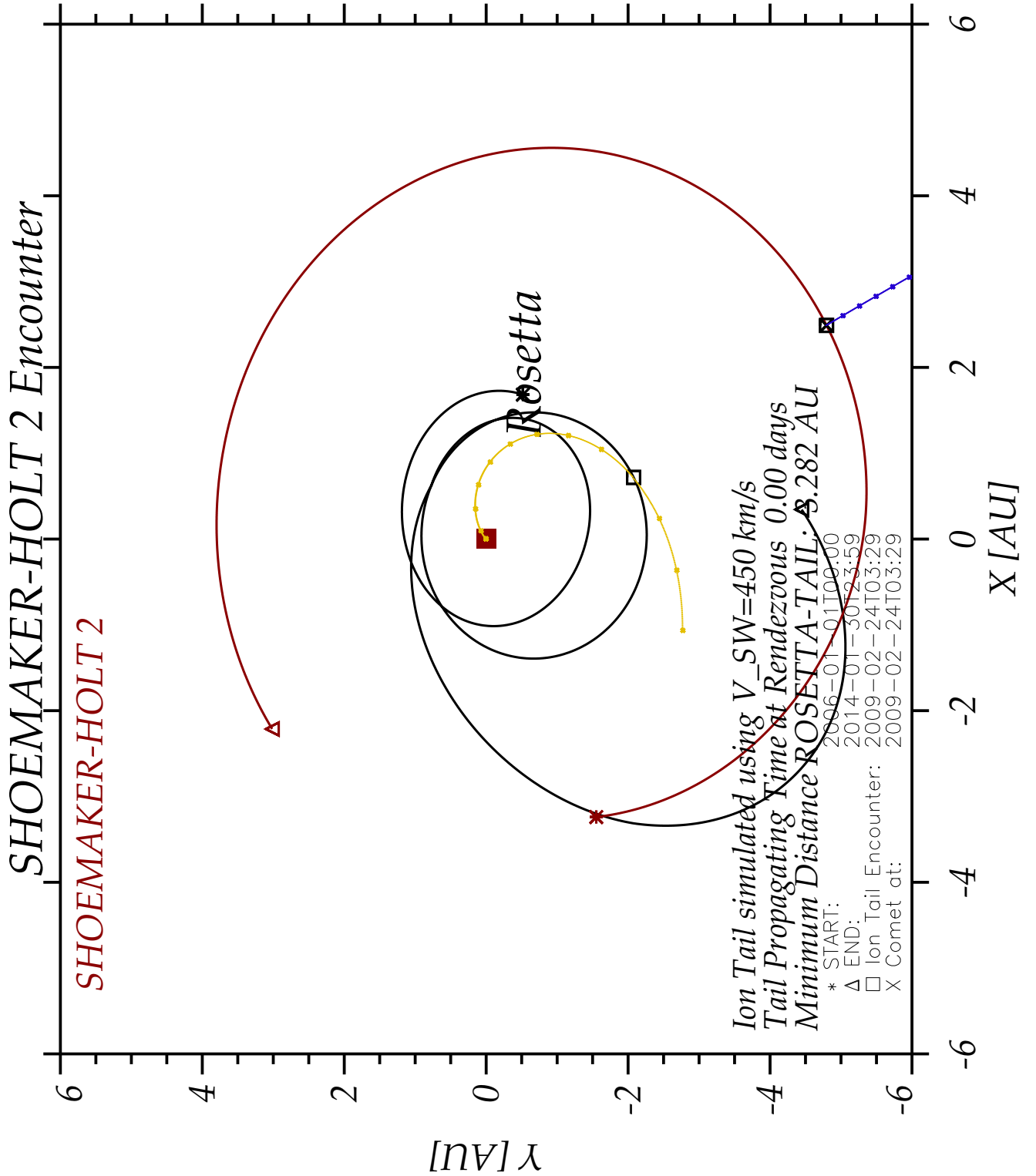


Figure 248: Overview: ROSETTA - SHOEMAKER-HOLT 2

<p style="text-align: center;">R O S E T T A</p>	<p>Document: RO-IGEP-TR-0020 Issue: 1 Revision: 2 Date: 2006-10-25 Page: 374</p>
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127 Comet 122P/DE-VICO

<p>Comet: 122P/DE-VICO</p>
<p>No Encounter below 0.2000AU</p>

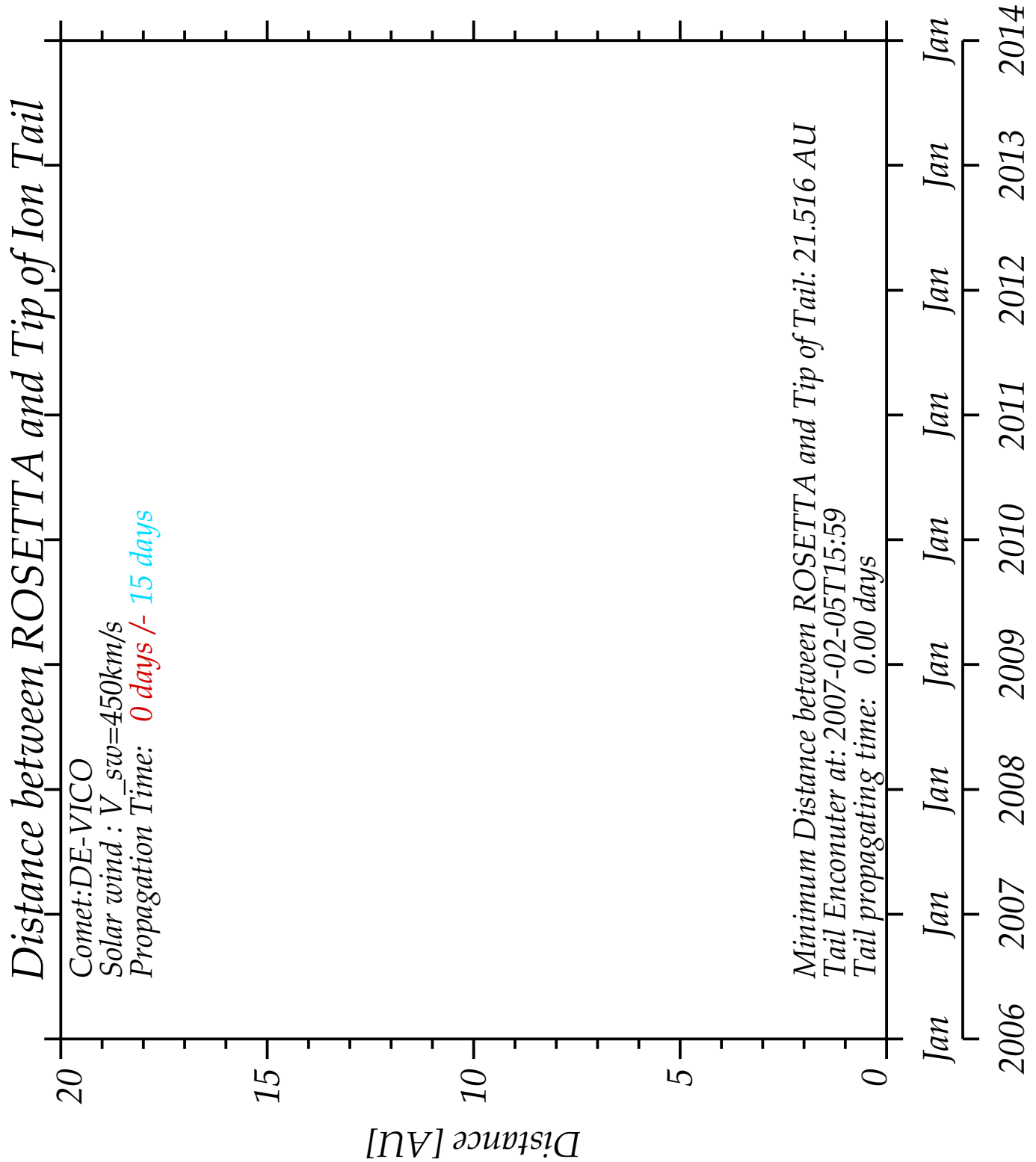


Figure 249: Minimum Distances: ROSETTA - DE-VICO

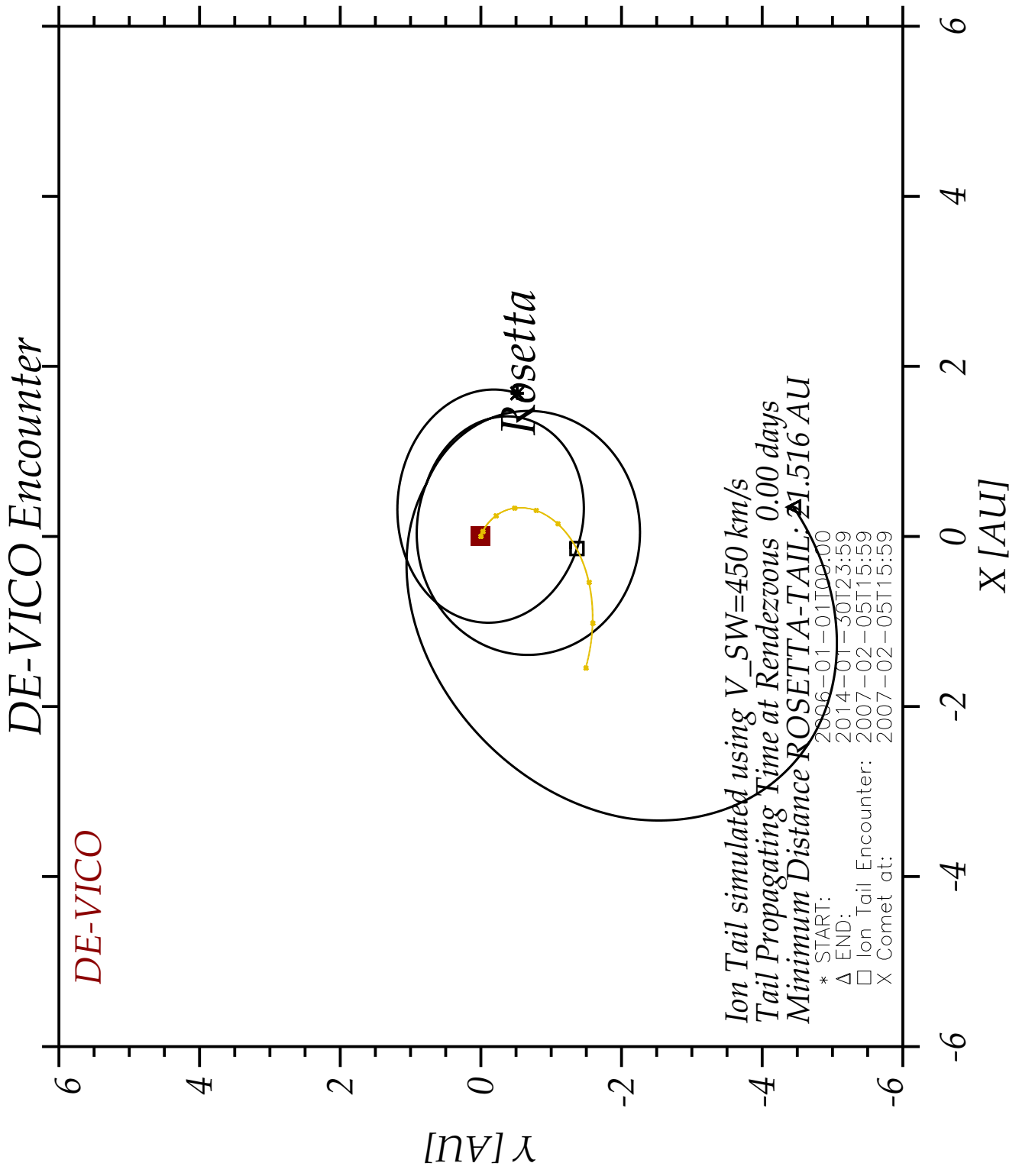


Figure 250: Overview: ROSETTA - DE-VICO

<p style="text-align: center;">R O S E T T A</p>	<p>Document: RO-IGEP-TR-0020 Issue: 1 Revision: 2</p>
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128 Comet 123P/WEST-HARTLEY

<p>Comet: 123P/WEST-HARTLEY</p>
<p>No Encounter below 0.2000AU</p>

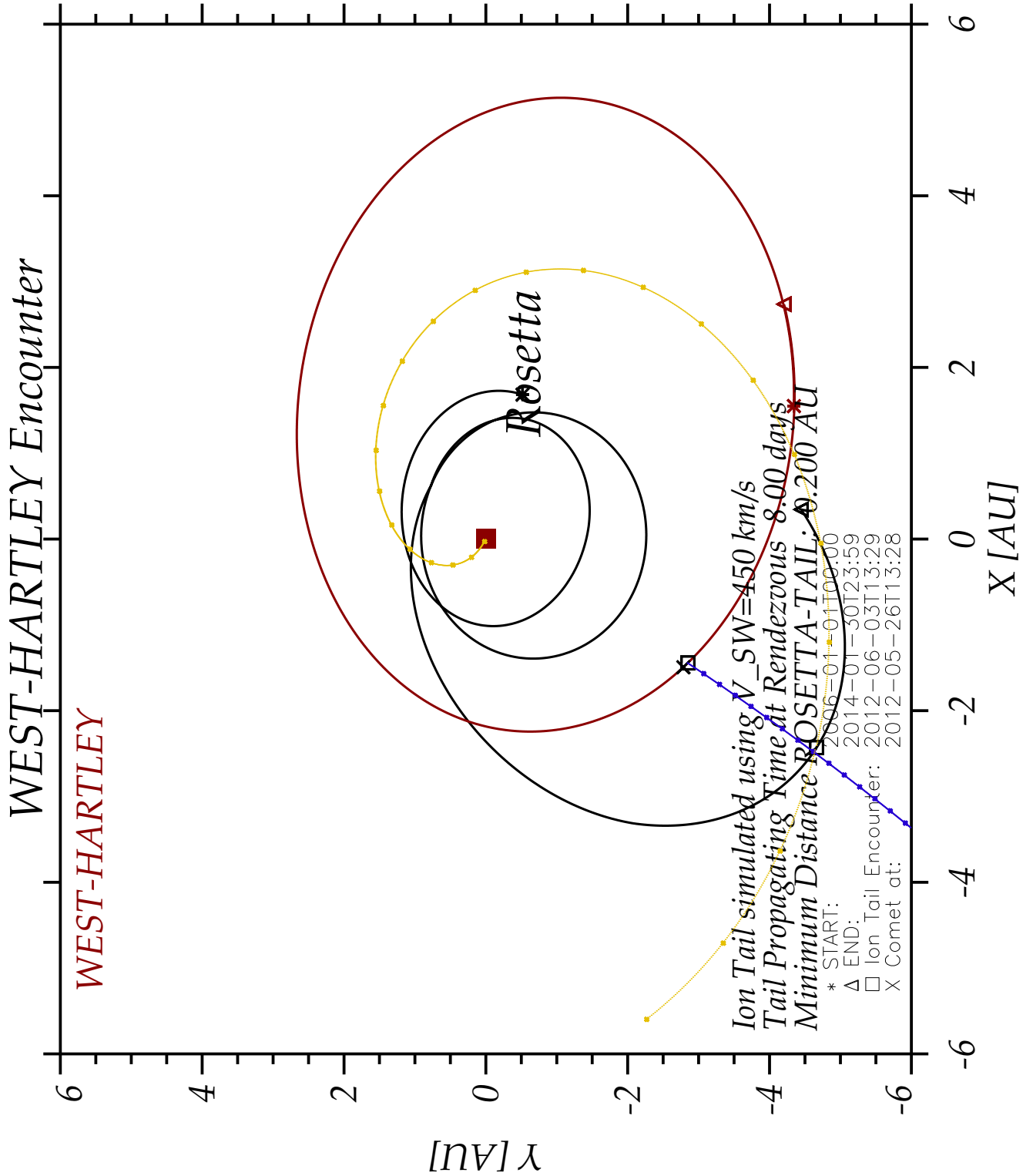


Figure 252: Overview: ROSETTA - WEST-HARTLEY

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129 Comet 124P/MRKOS

Comet: 124P/MRKOS
No Encounter below 0.2000AU

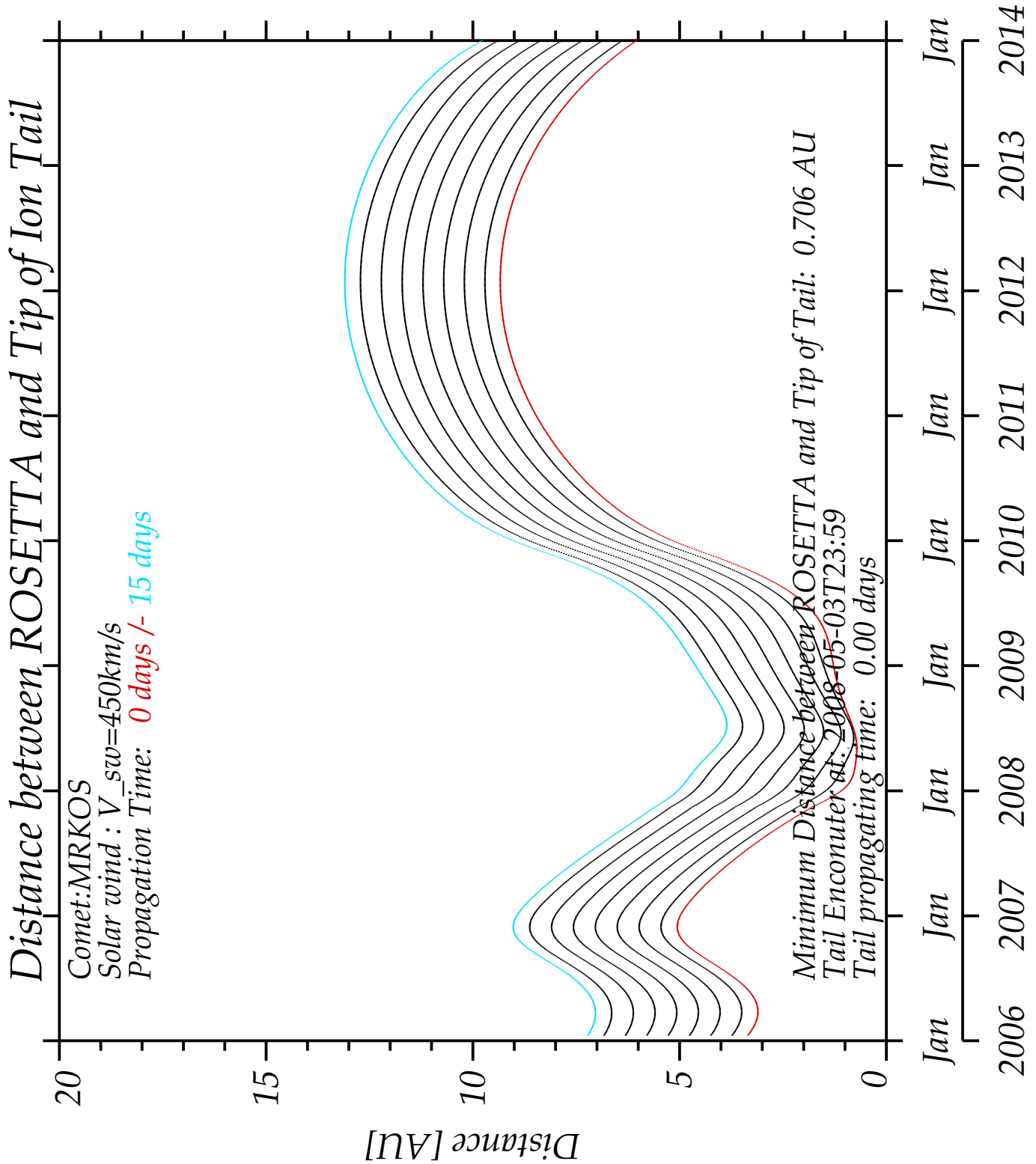


Figure 253: Minimum Distances: ROSETTA - MRKOS

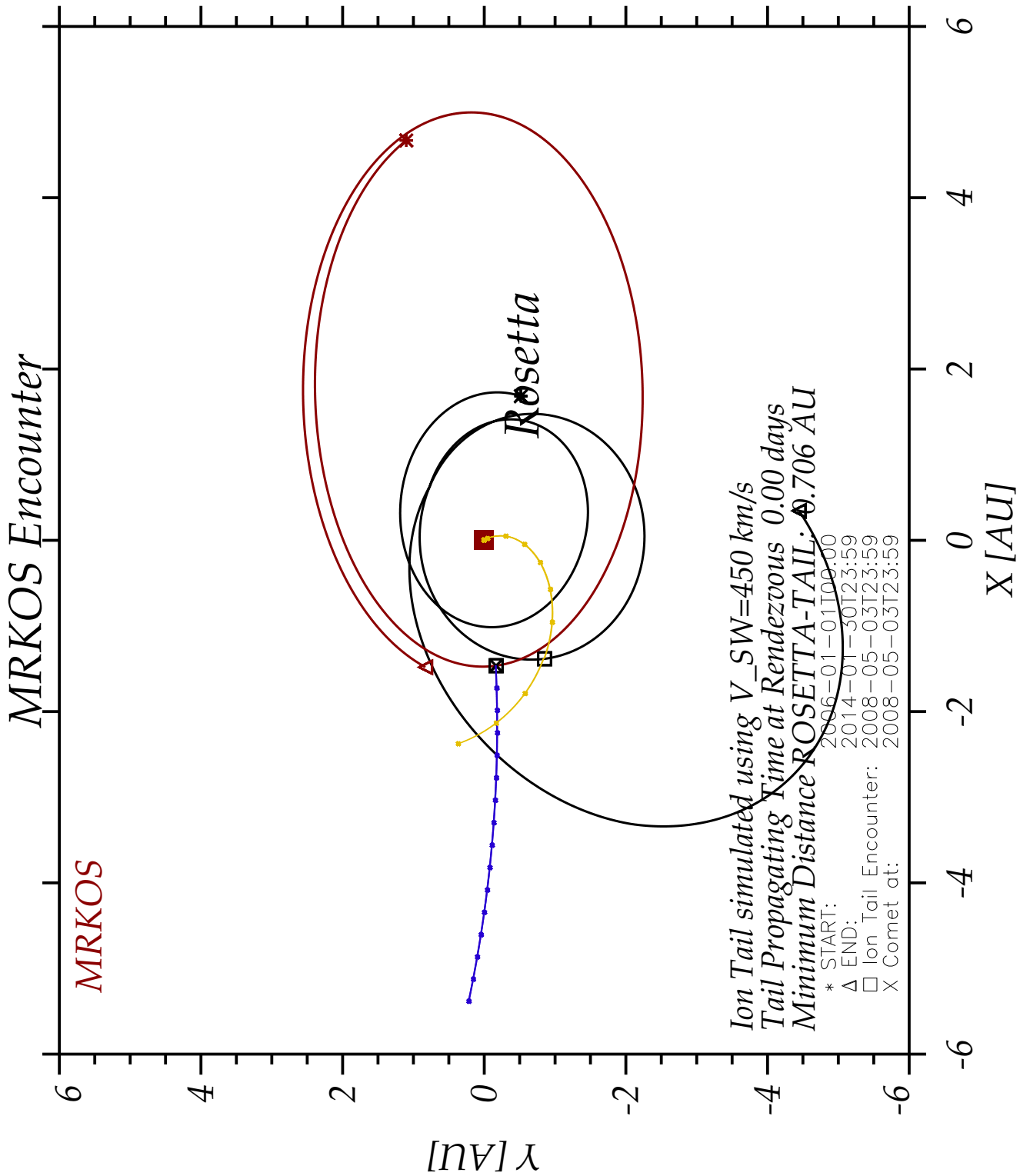


Figure 254: Overview: ROSETTA - MRKOS

<p style="text-align: center;">R O S E T T A</p>	<p>Document: RO-IGEP-TR-0020 Issue: 1 Revision: 2</p>
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130 Comet 125P/SPACEWATCH

<p>Comet: 125P/SPACEWATCH</p>
<p>No Encounter below 0.2000AU</p>

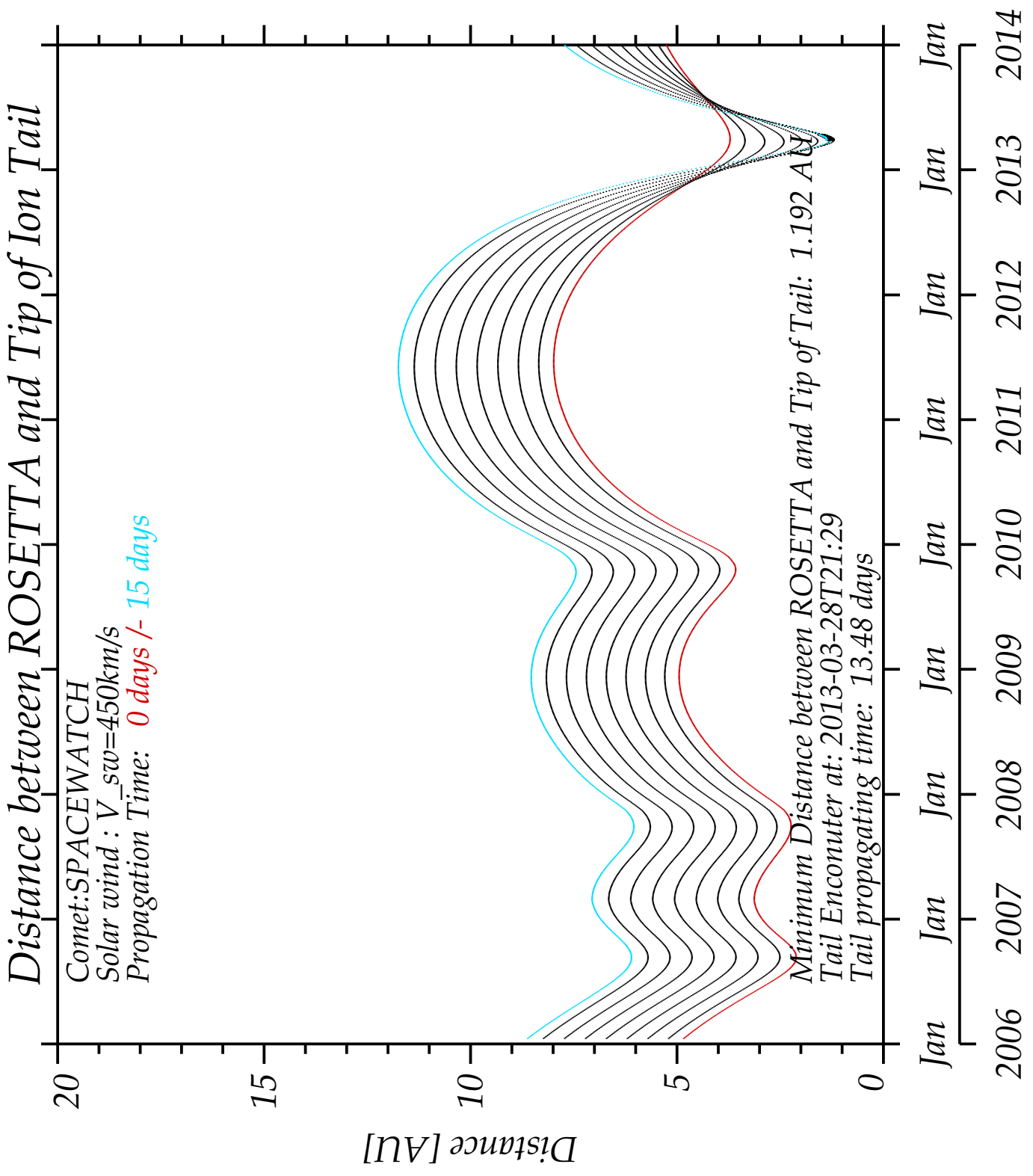


Figure 255: Minimum Distances: ROSETTA - SPACEWATCH

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131 Comet 126P/IRAS

Comet: 126P/IRAS
No Encounter below 0.2000AU

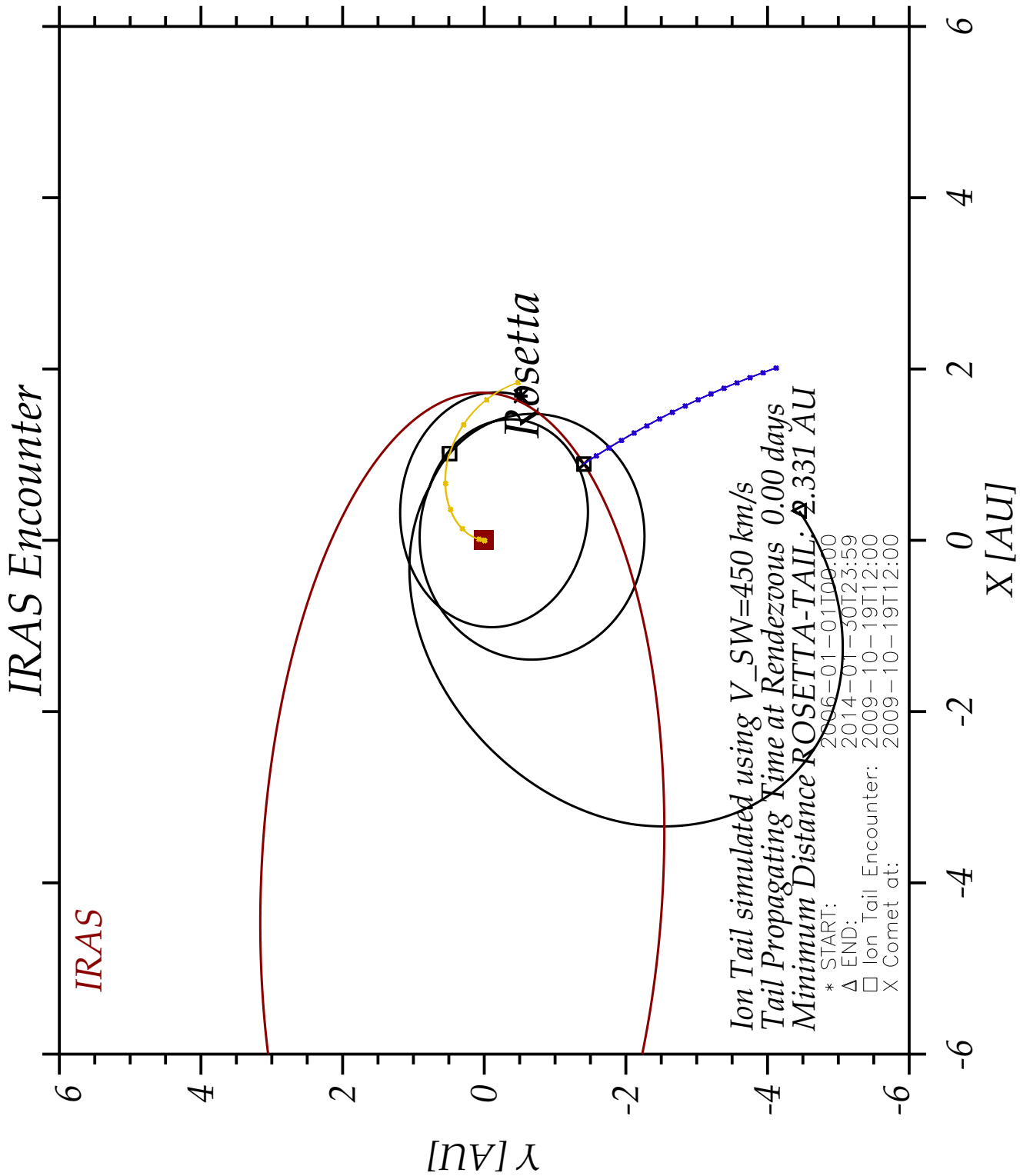


Figure 258: Overview: ROSETTA - IRAS

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132 Comet 127P/HOLT-OLMSTEAD

Comet: 127P/HOLT-OLMSTEAD
No Encounter below 0.2000AU

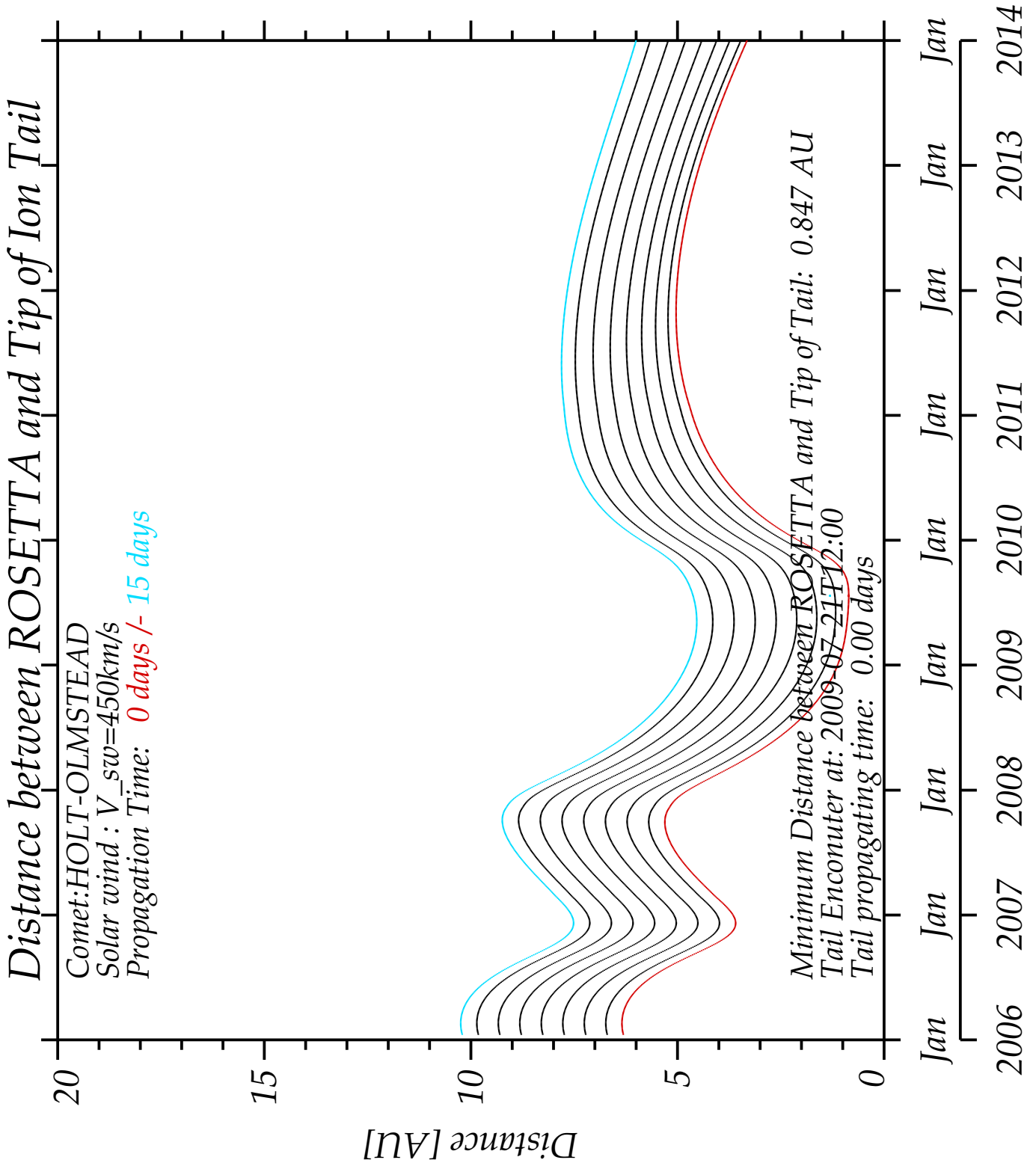


Figure 259: Minimum Distances: ROSETTA - HOLT-OLMSTEAD

<p style="text-align: center;">R O S E T T A</p>	<p>Document: RO-IGEP-TR-0020 Issue: 1 Revision: 2 Date: 2006-10-25 Page: 392</p>
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133 Comet 128P-A/SHOEMAKER-HOLT 1A

<p>Comet: 128P-A/SHOEMAKER-HOLT 1A</p>
<p>No Encounter below 0.2000AU</p>

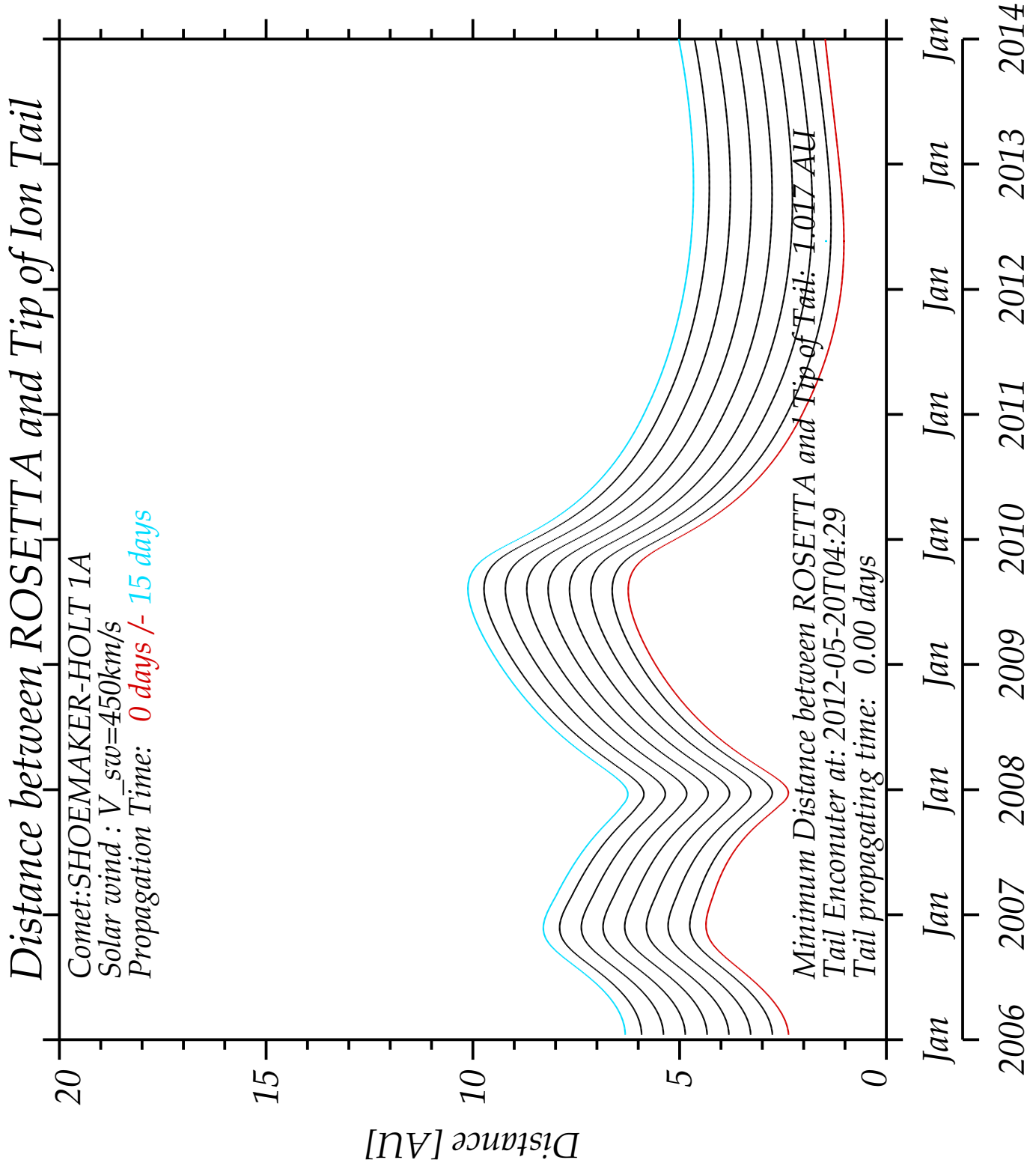


Figure 261: Minimum Distances: ROSETTA - SHOEMAKER-HOLT 1A

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134 Comet 128P/SHOEMAKER-HOLT 1

Comet: 128P/SHOEMAKER-HOLT 1
No Encounter below 0.2000AU

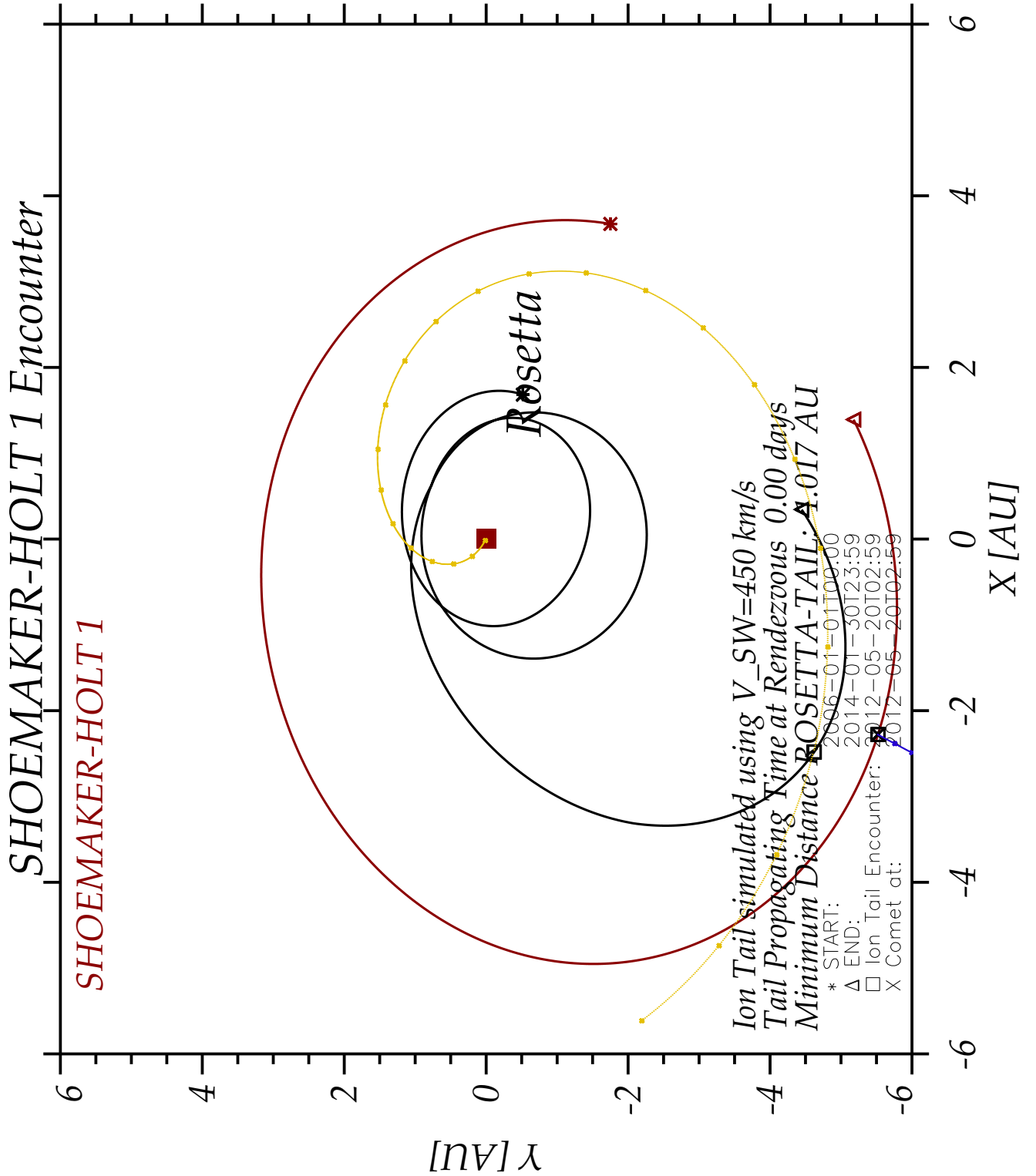


Figure 264: Overview: ROSETTA - SHOEMAKER-HOLT 1

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135 Comet 129P/SHOEMAKER-LEVY 3

Comet: 129P/SHOEMAKER-LEVY 3
No Encounter below 0.2000AU

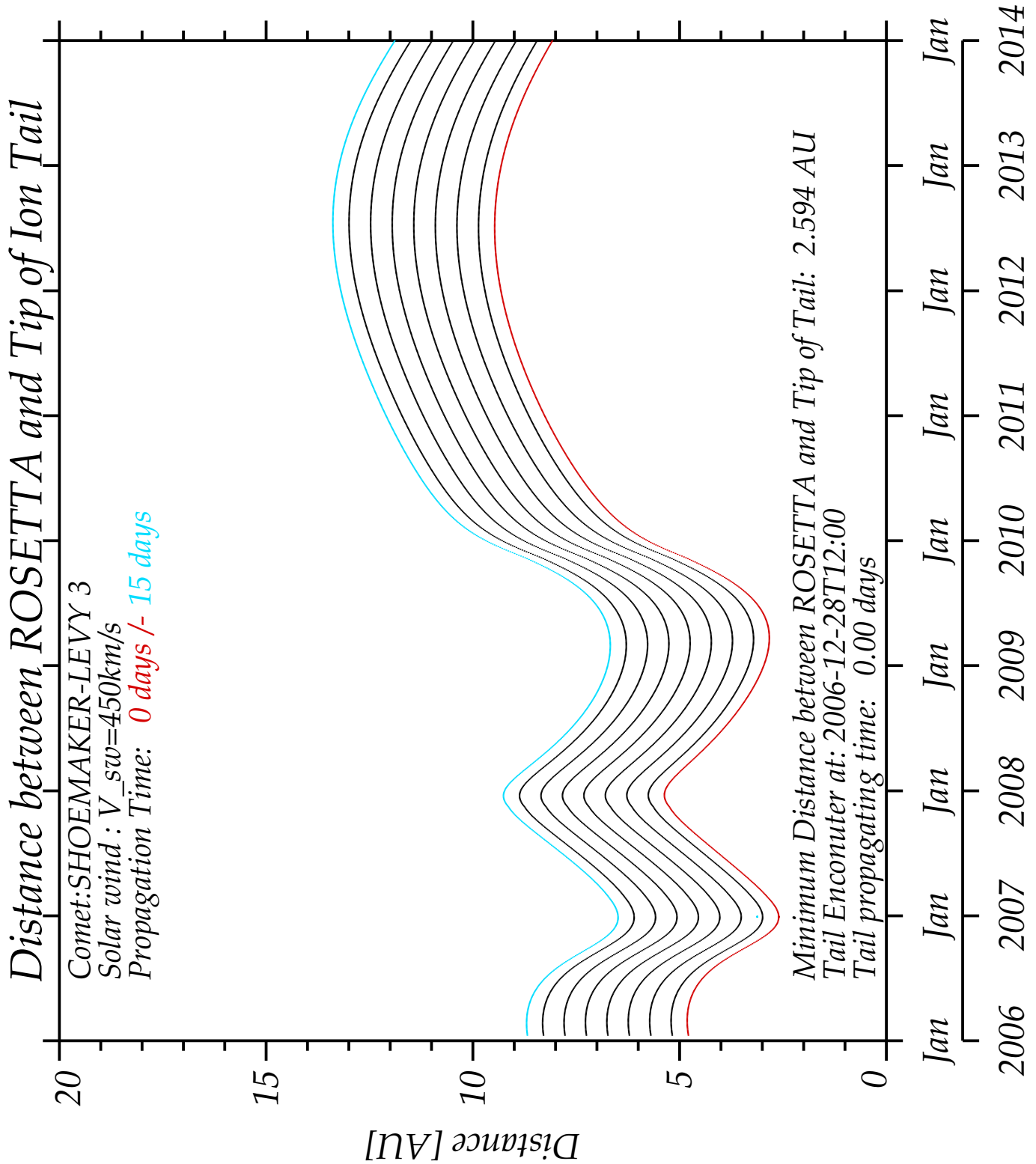


Figure 265: Minimum Distances: ROSETTA - SHOEMAKER-LEVY 3

R O S E T T A	Document: RO-IGEP-TR-0020
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136 Comet 130P/MCNAUGHT-HUGHES

Comet: 130P/MCNAUGHT-HUGHES
No Encounter below 0.2000AU

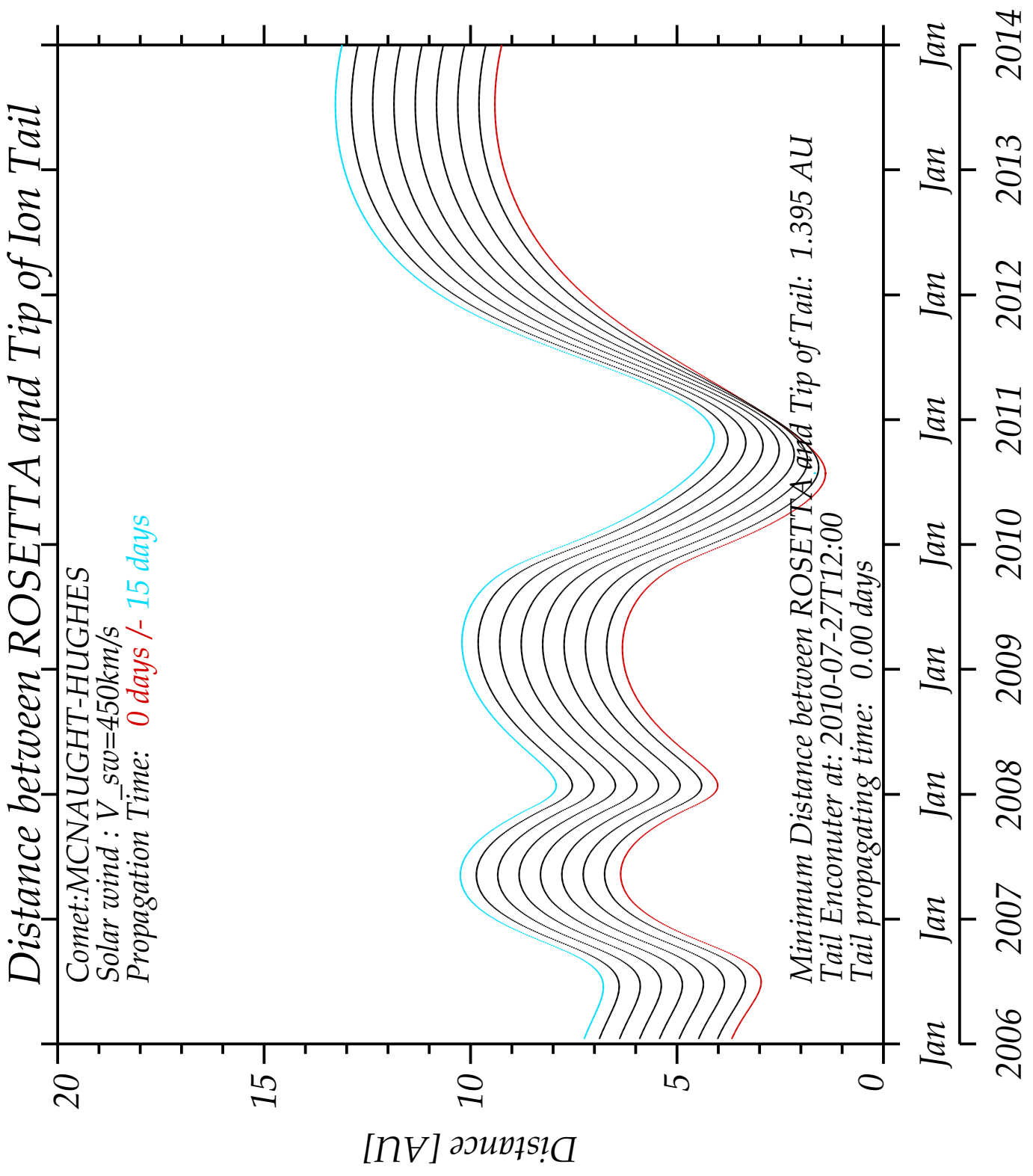


Figure 267: Minimum Distances: ROSETTA - MCNAUGHT-HUGHES

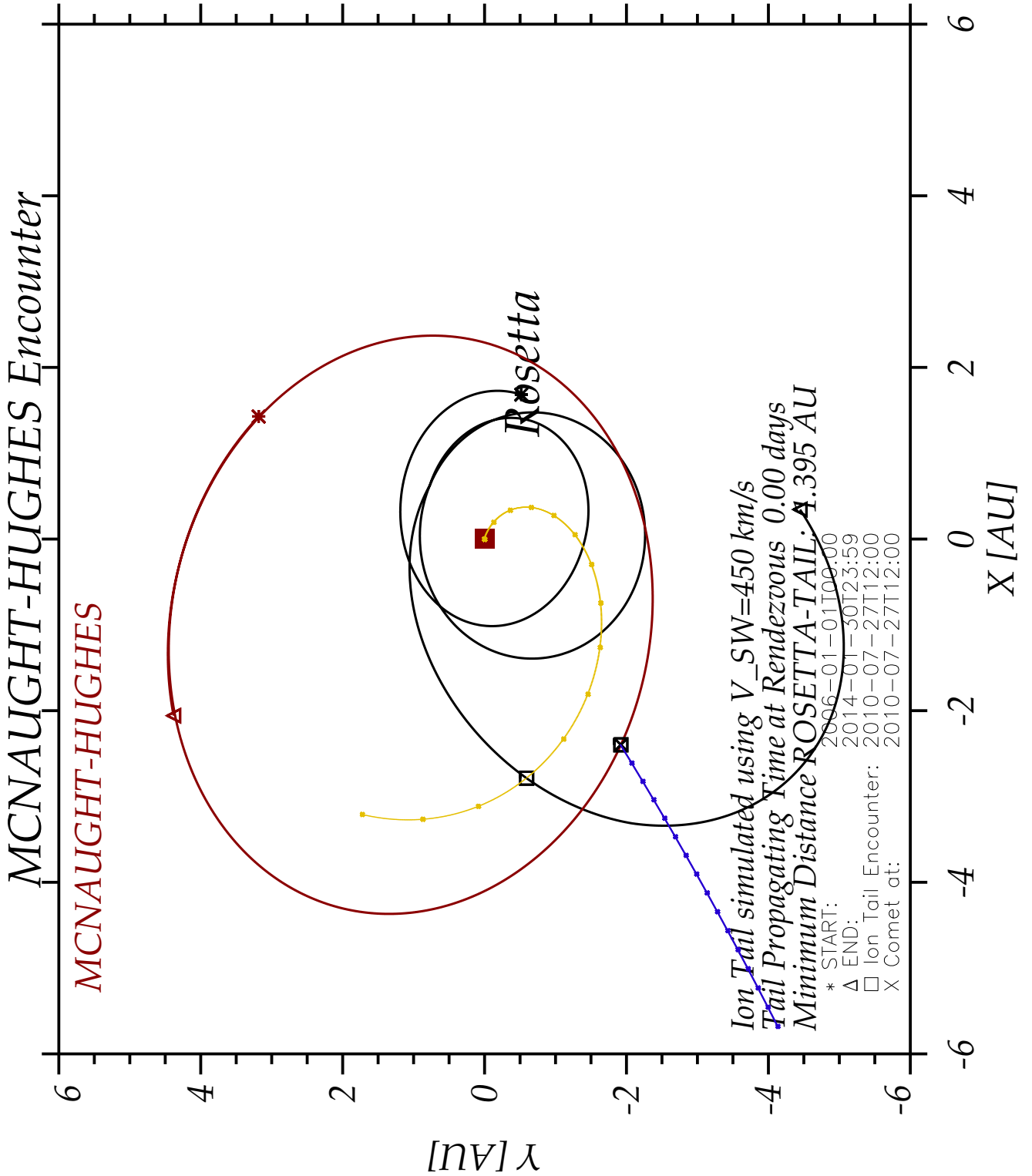


Figure 268: Overview: ROSETTA - MCNAUGHT-HUGHES

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137 Comet 131P/MUELLER 2

Comet: 131P/MUELLER 2
No Encounter below 0.2000AU

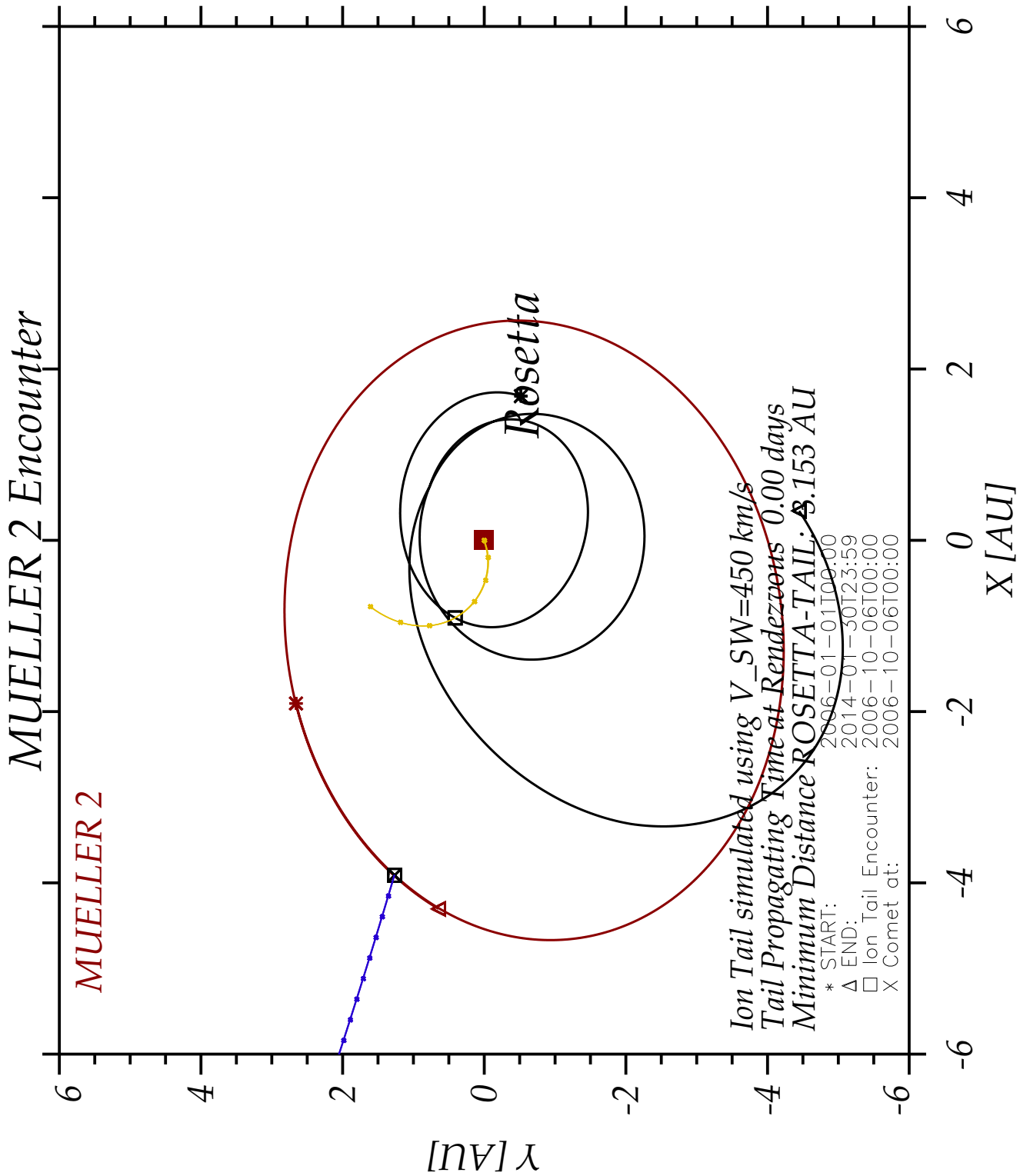


Figure 270: Overview: ROSETTA - MUELLER 2

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138 Comet 132P/HELIN-ROMAN-ALU 2

Comet: 132P/HELIN-ROMAN-ALU 2
No Encounter below 0.2000AU

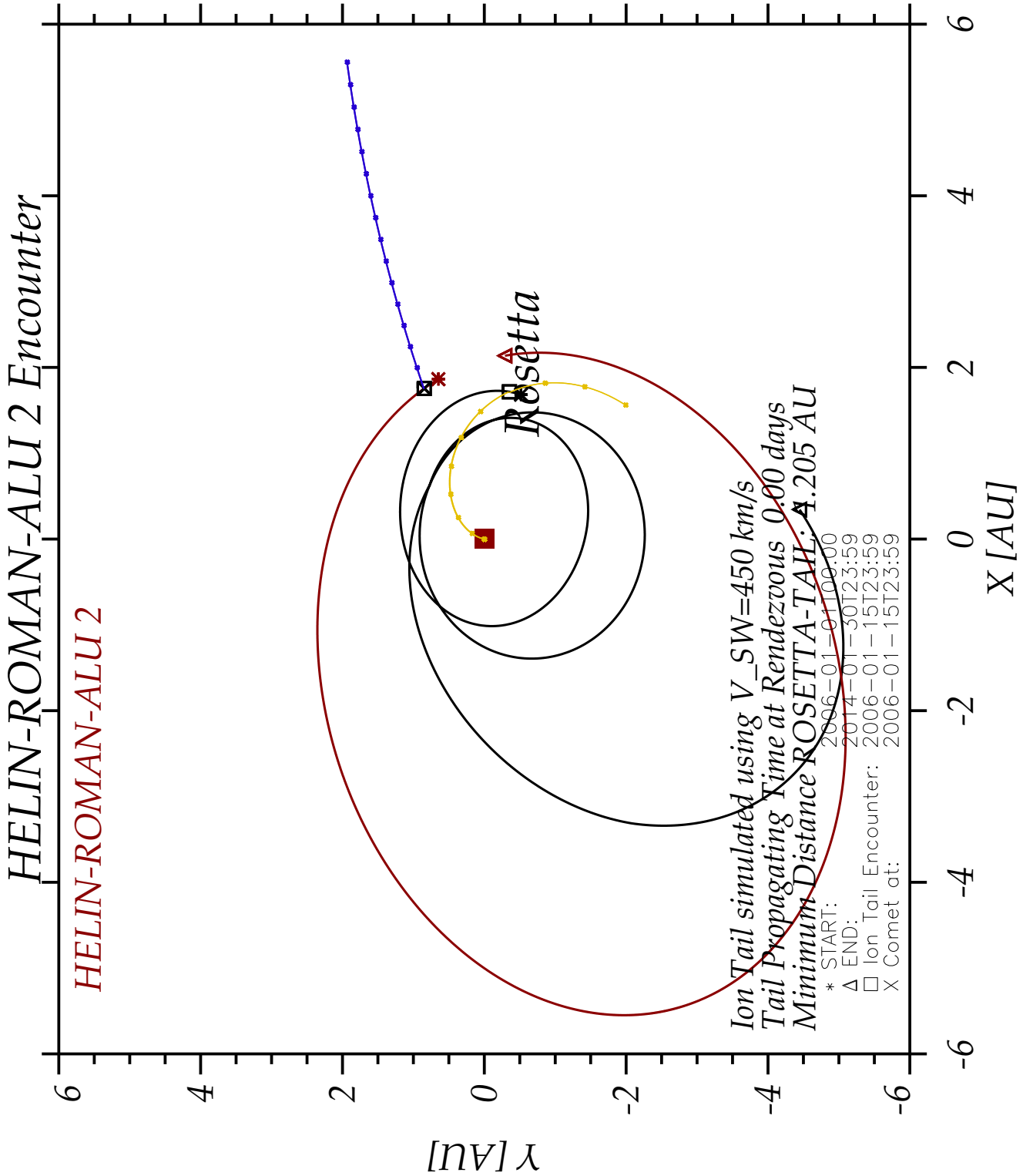


Figure 272: Overview: ROSETTA - HELIN-ROMAN-ALU 2

<p style="text-align: center;">R O S E T T A</p>	<p>Document: RO-IGEP-TR-0020 Issue: 1 Revision: 2 Date: 2006-10-25 Page: 410</p>
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139 Comet 133P/ELST-PIZARRO

<p>Comet: 133P/ELST-PIZARRO</p>
<p>No Encounter below 0.2000AU</p>

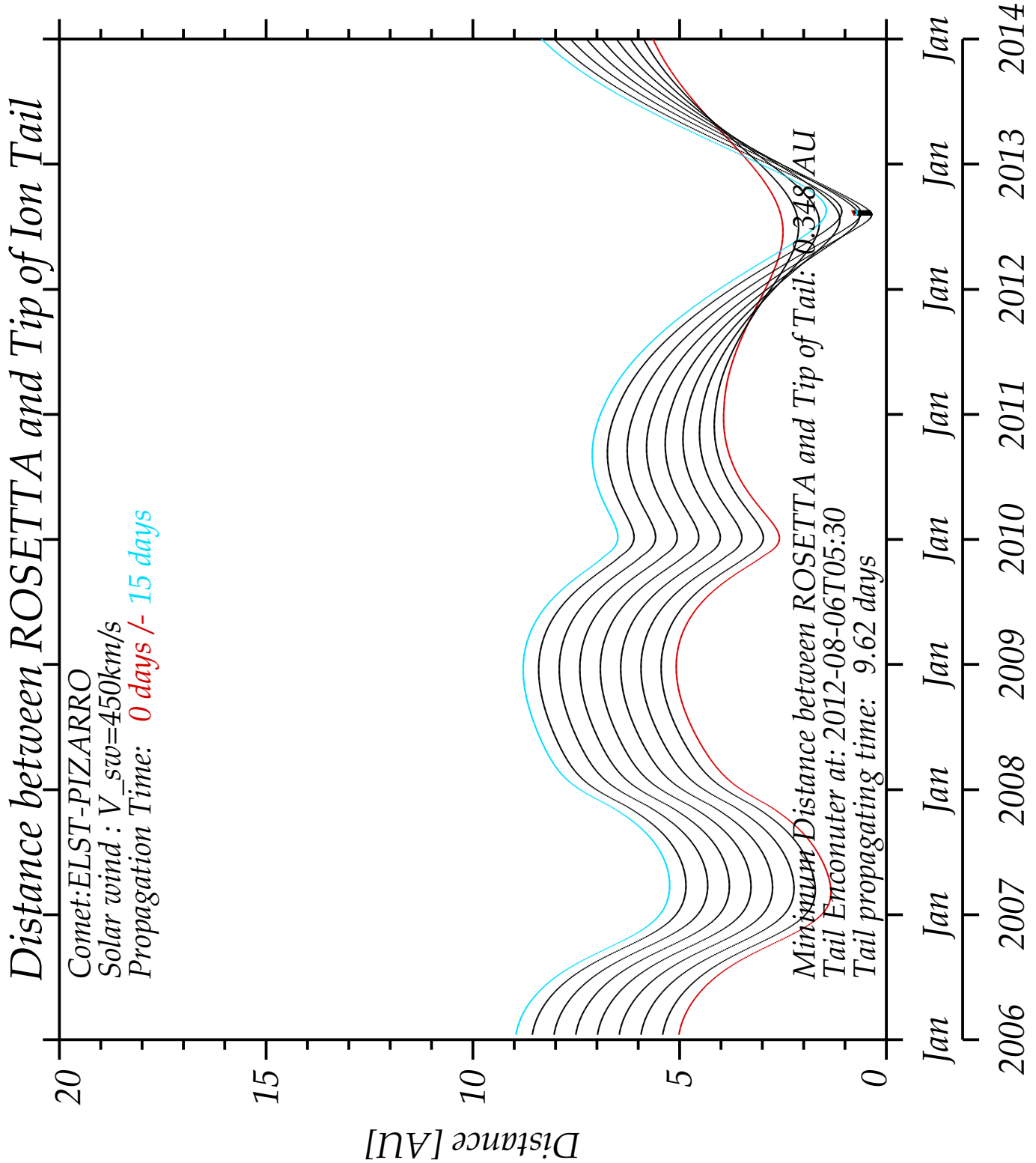


Figure 273: Minimum Distances: ROSETTA - ELST-PIZARRO

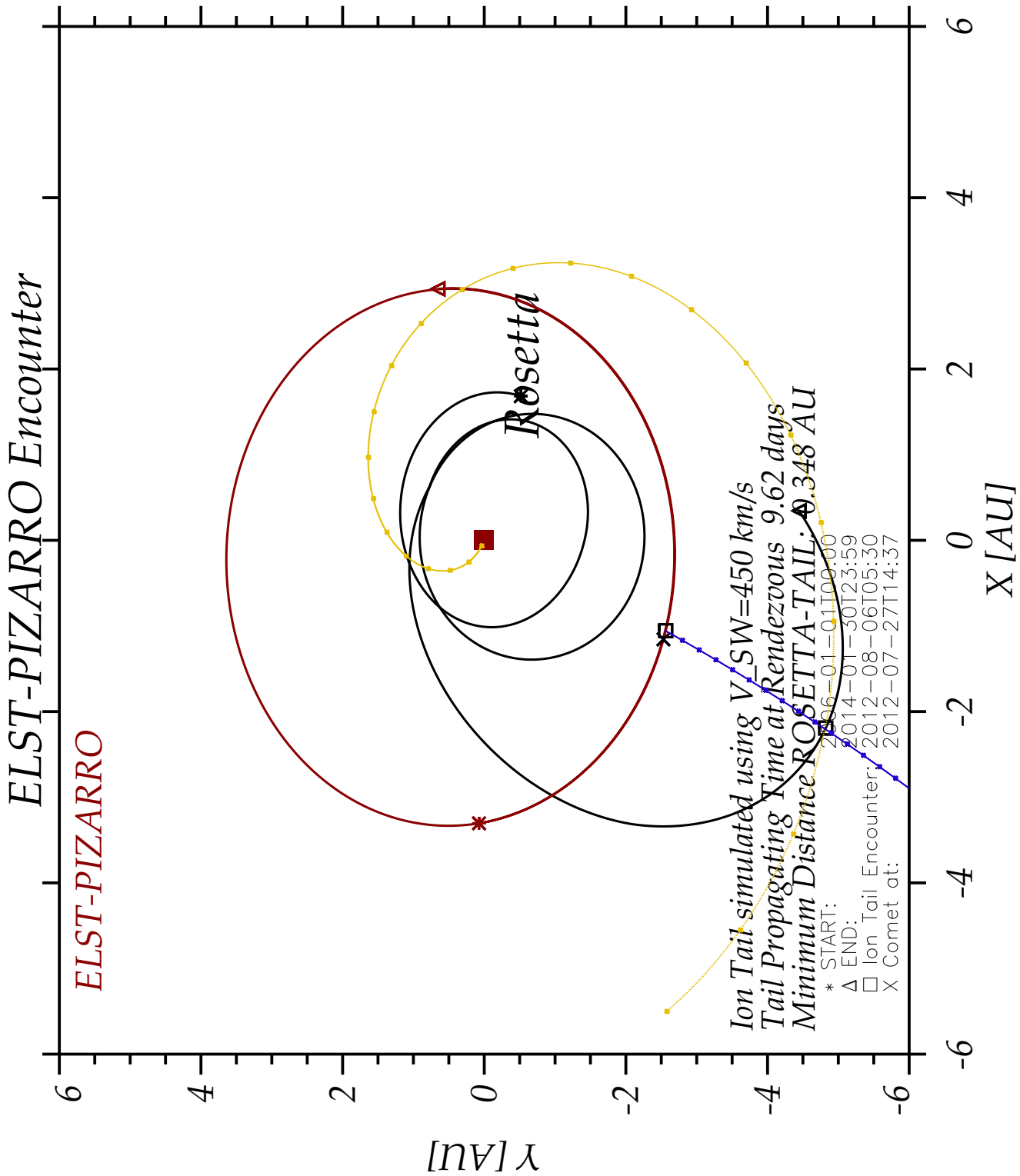


Figure 274: Overview: ROSETTA - ELST-PIZARRO

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140 Comet 134P/KOWAL-VAVROVA

Comet: 134P/KOWAL-VAVROVA
No Encounter below 0.2000AU

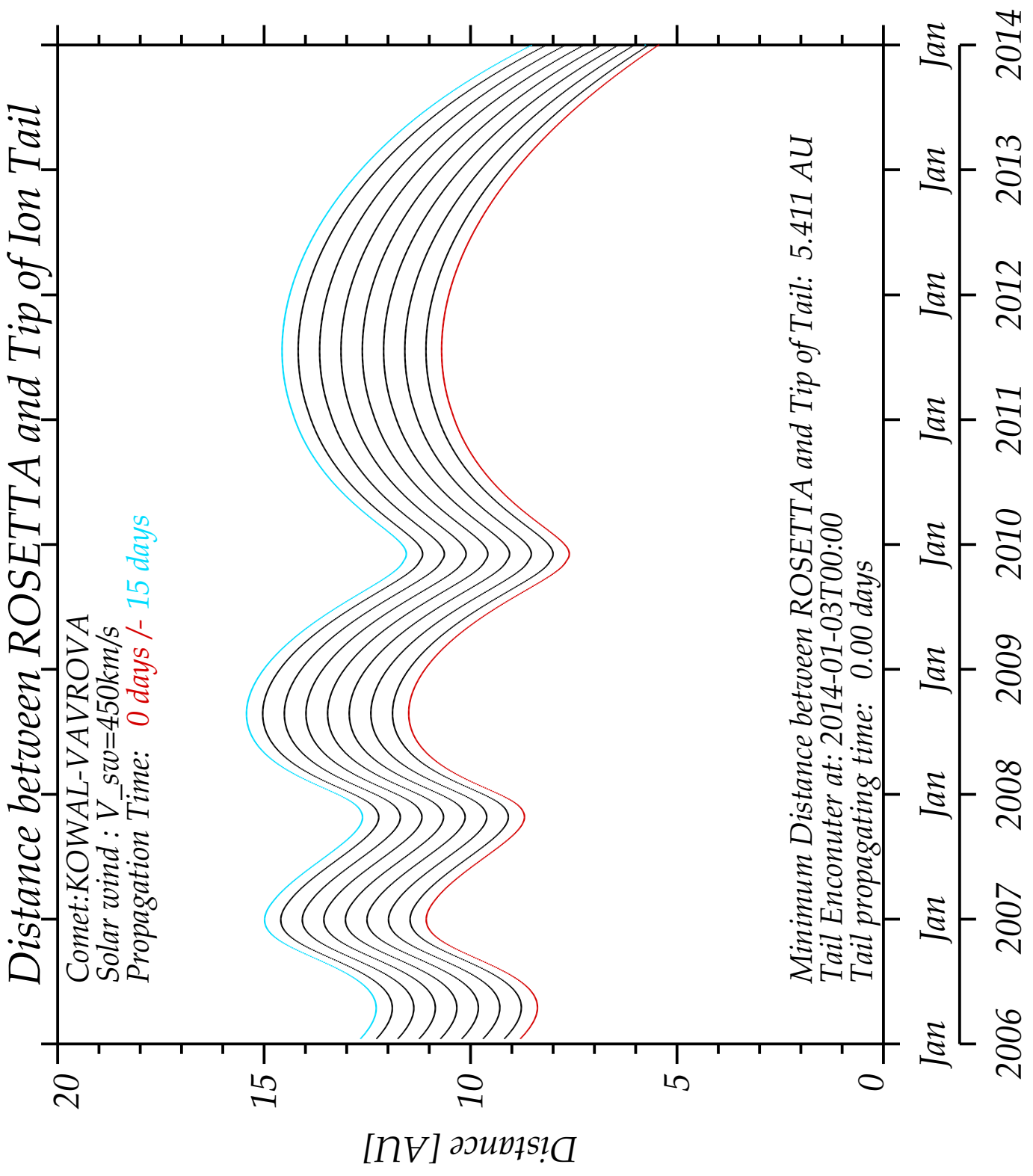


Figure 275: Minimum Distances: ROSETTA - KOWAL-VAVROVA

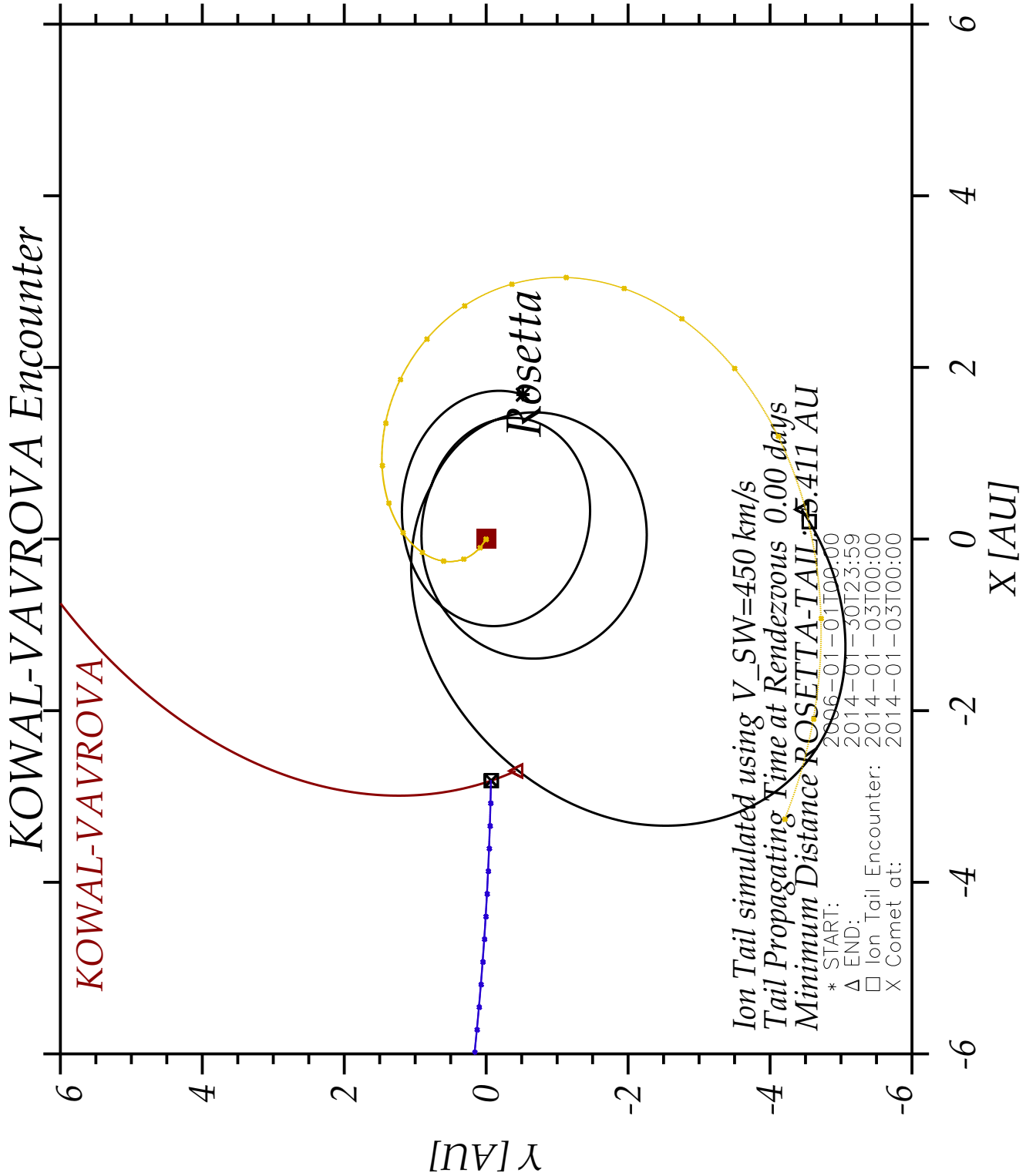


Figure 276: Overview: ROSETTA - KOWAL-VAVROVA

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141 Comet 135P/SHOEMAKER-LEVY 8

Comet: 135P/SHOEMAKER-LEVY 8
No Encounter below 0.2000AU

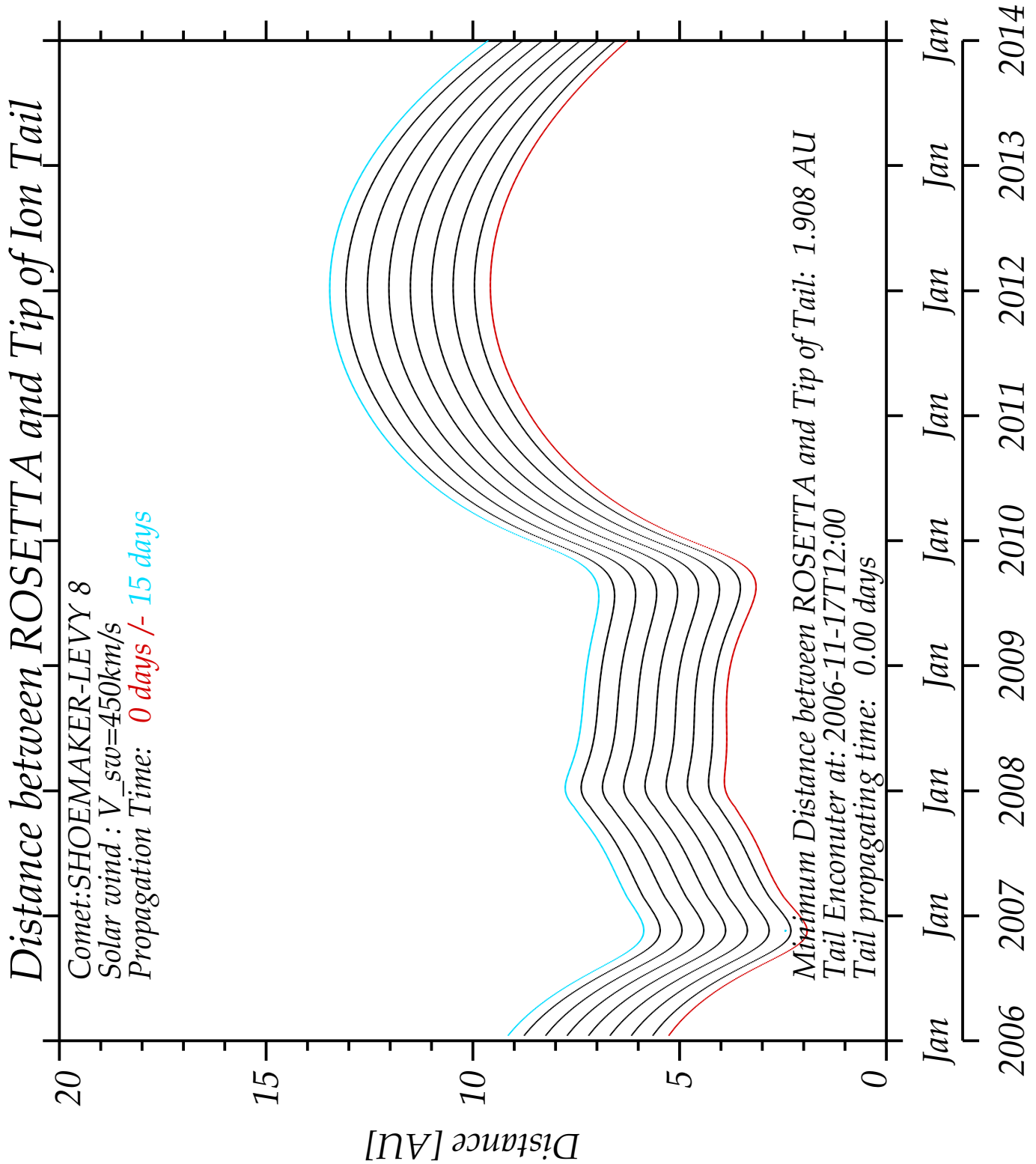


Figure 277: Minimum Distances: ROSETTA - SHOEMAKER-LEVY 8

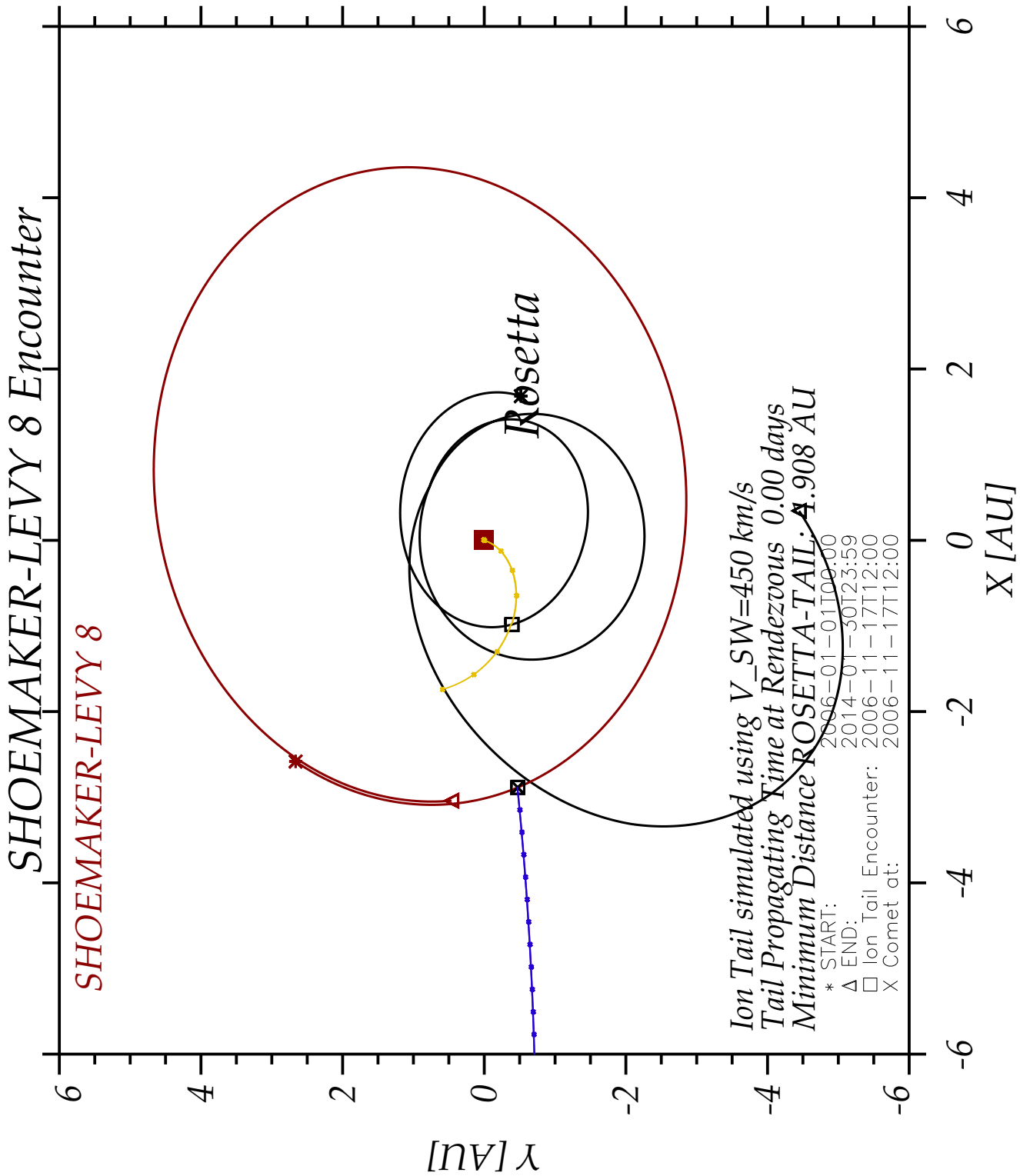


Figure 278: Overview: ROSETTA - SHOEMAKER-LEVY 8

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142 Comet 136P/MUELLER 3

Comet: 136P/MUELLER 3
No Encounter below 0.2000AU

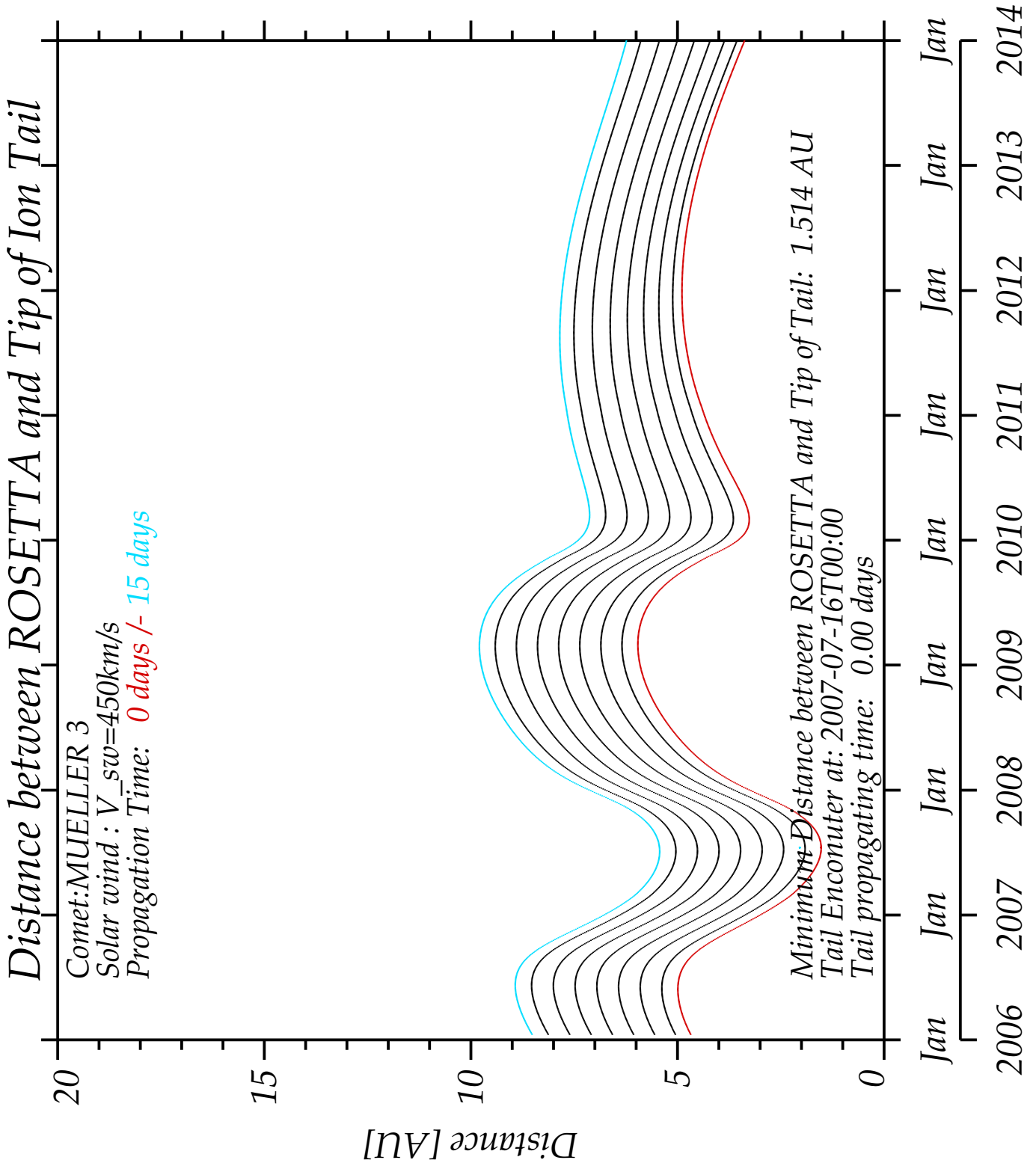


Figure 279: Minimum Distances: ROSETTA - MUELLER 3

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143 Comet 137P/SHOEMAKER-LEVY 2

Comet: 137P/SHOEMAKER-LEVY 2
No Encounter below 0.2000AU

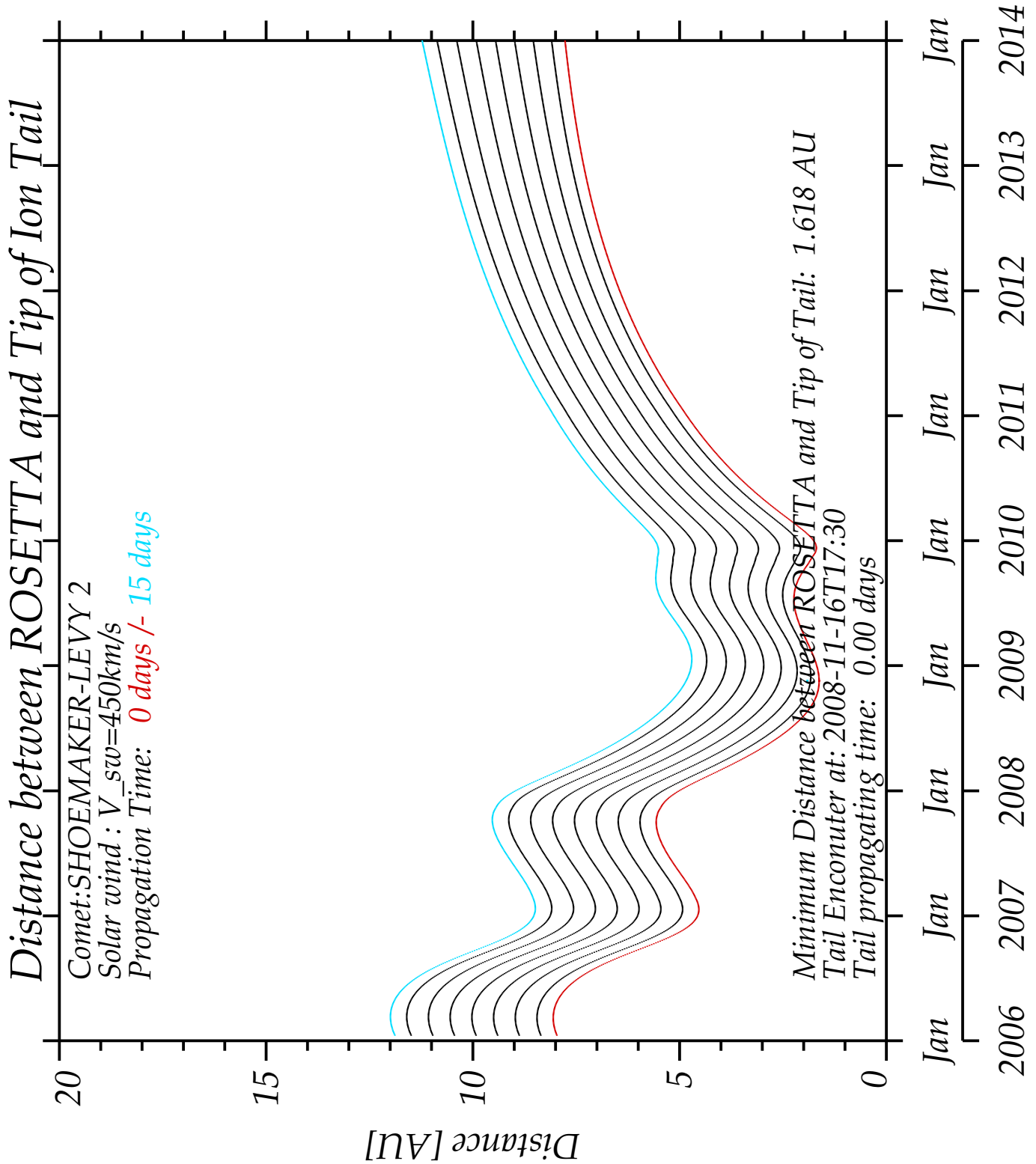


Figure 281: Minimum Distances: ROSETTA - SHOEMAKER-LEVY 2

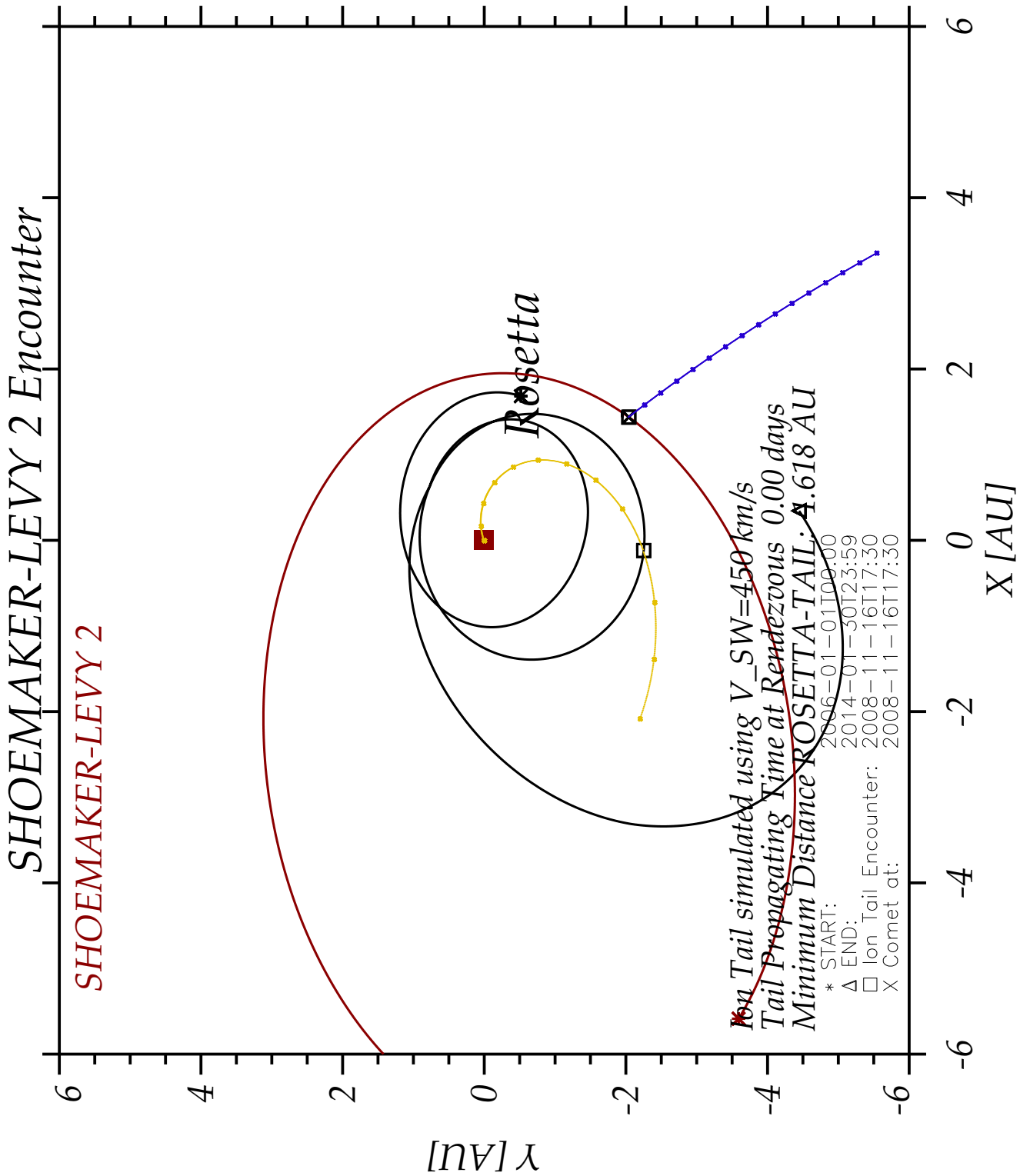


Figure 282: Overview: ROSETTA - SHOEMAKER-LEVY 2

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144 Comet 138P/SHOEMAKER-LEVY 7

Comet: 138P/SHOEMAKER-LEVY 7
No Encounter below 0.2000AU

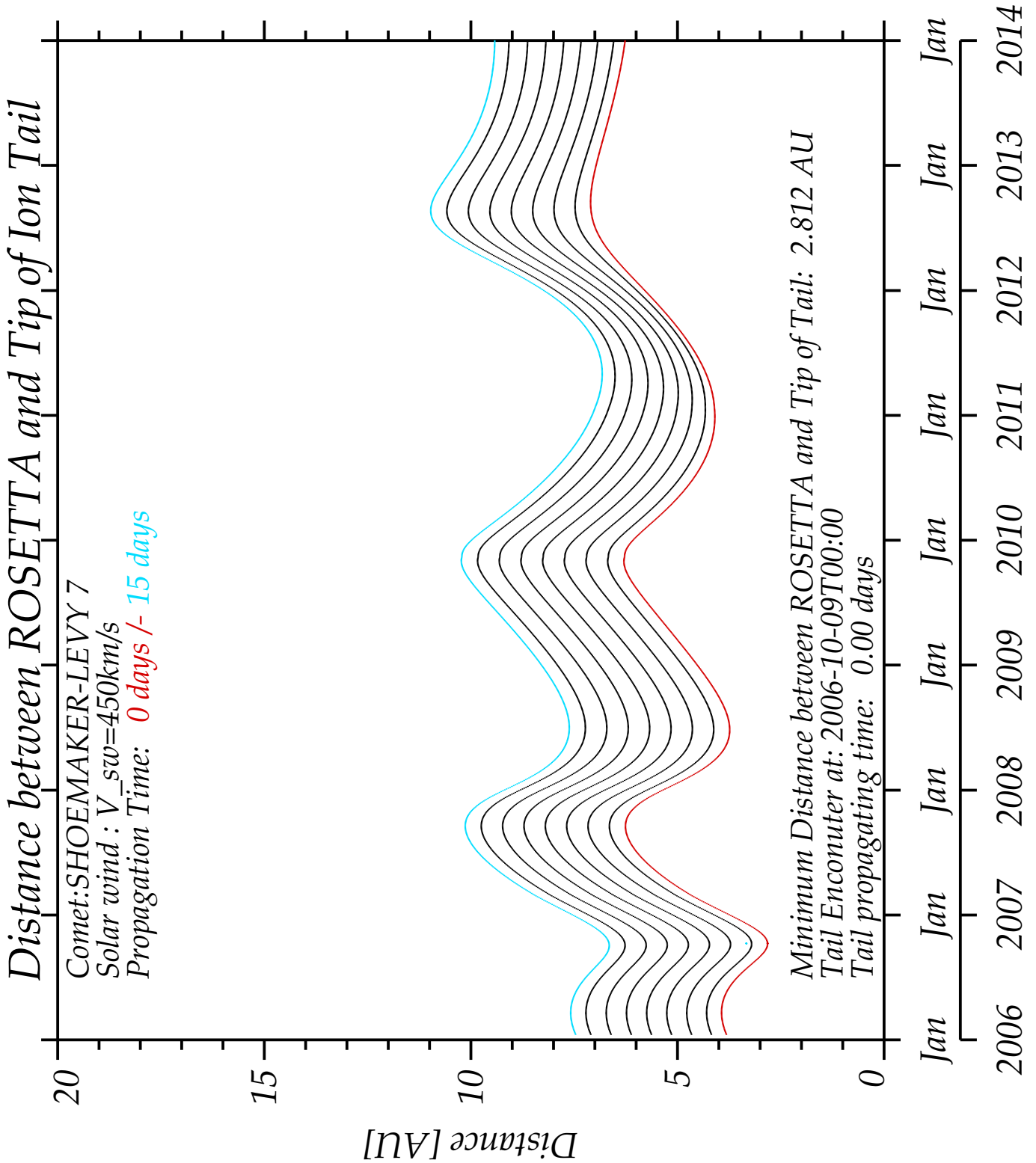


Figure 283: Minimum Distances: ROSETTA - SHOEMAKER-LEVY 7

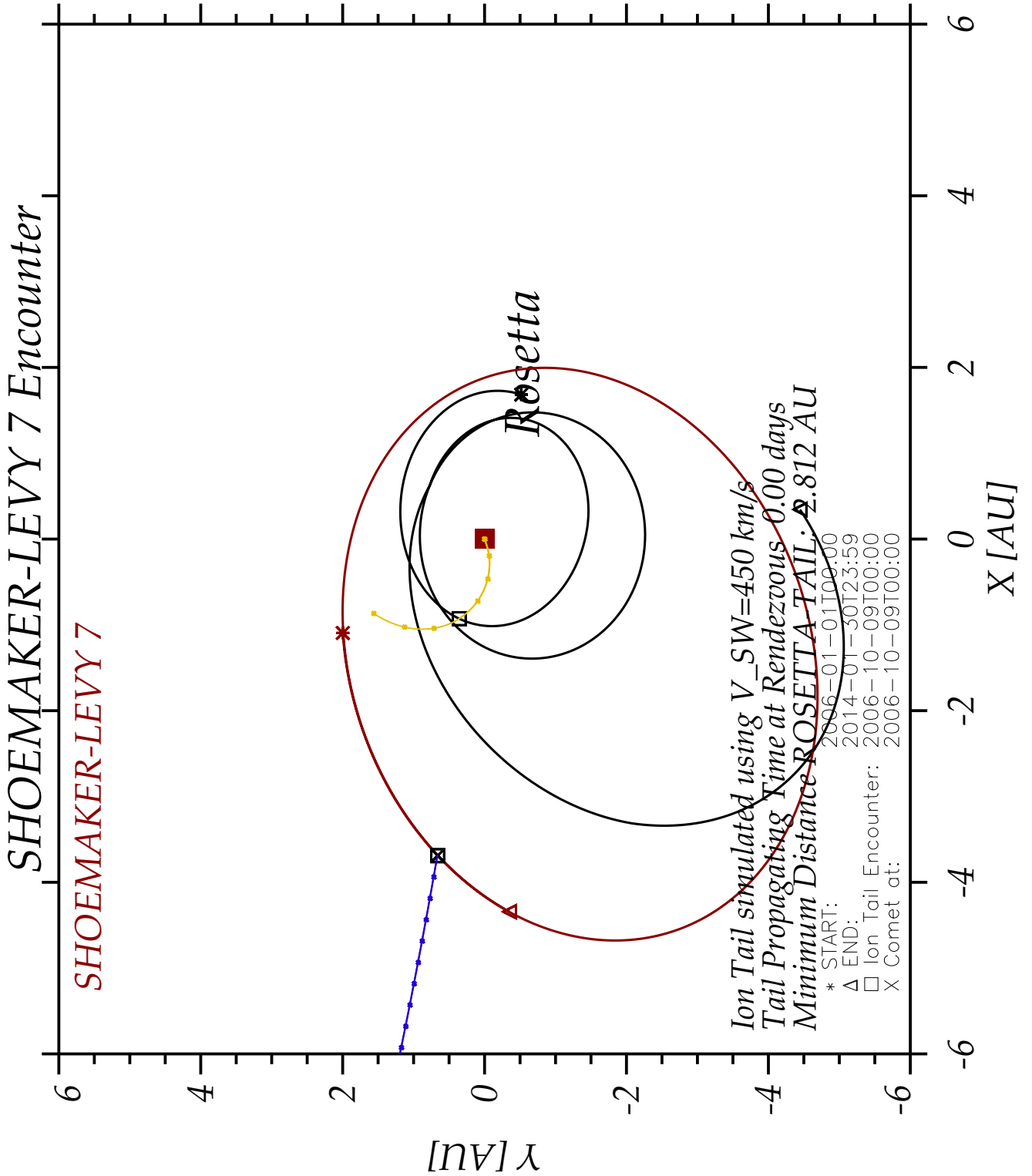


Figure 284: Overview: ROSETTA - SHOEMAKER-LEVY 7

<p style="text-align: center;">R O S E T T A</p>	<p>Document: RO-IGEP-TR-0020 Issue: 1 Revision: 2 Date: 2006-10-25 Page: 428</p>
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145 Comet 139P/VAISALA-OTERMA

<p>Comet: 139P/VAISALA-OTERMA</p>
<p>No Encounter below 0.2000AU</p>

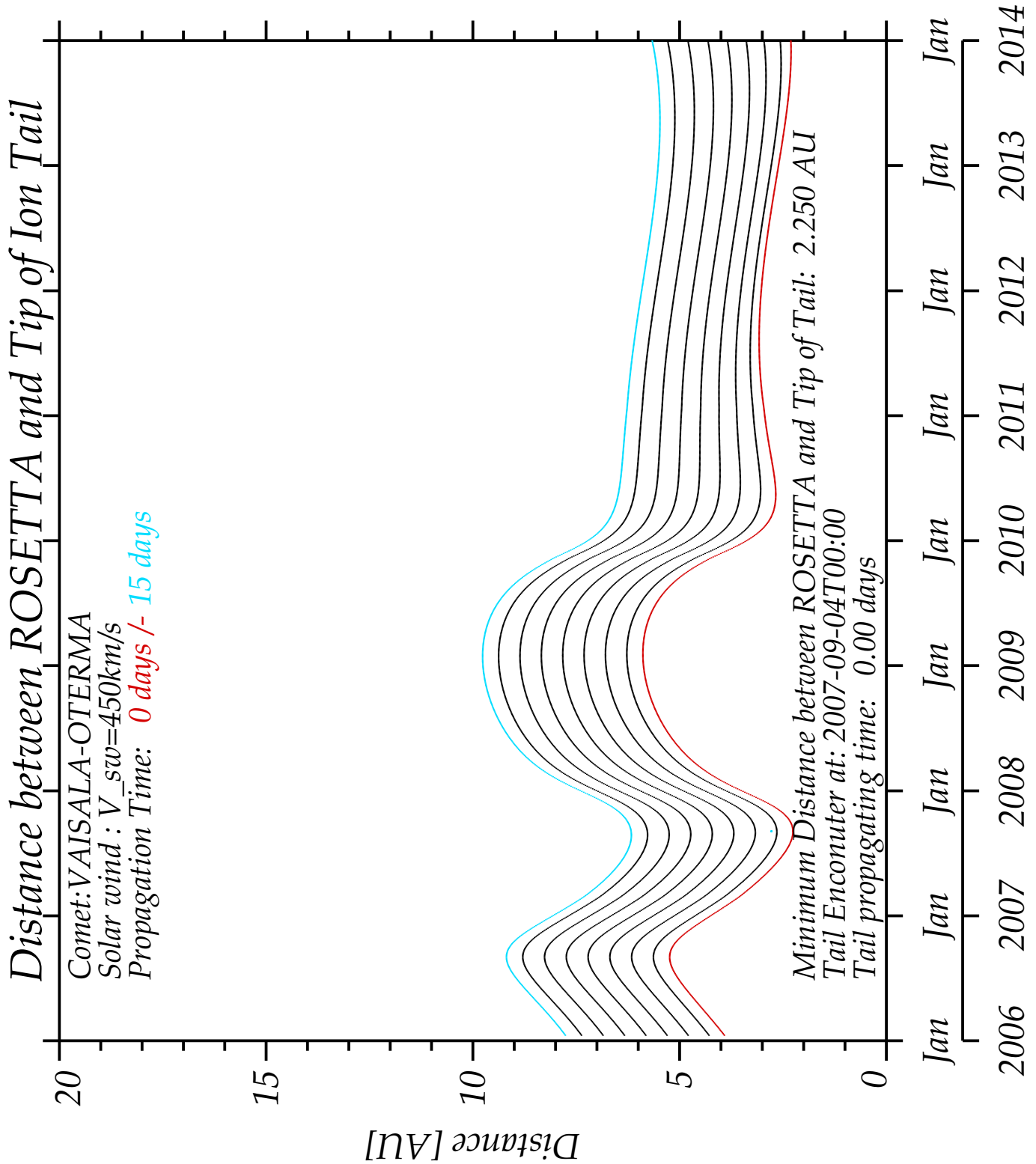


Figure 285: Minimum Distances: ROSETTA - VAISALA-OTERMA

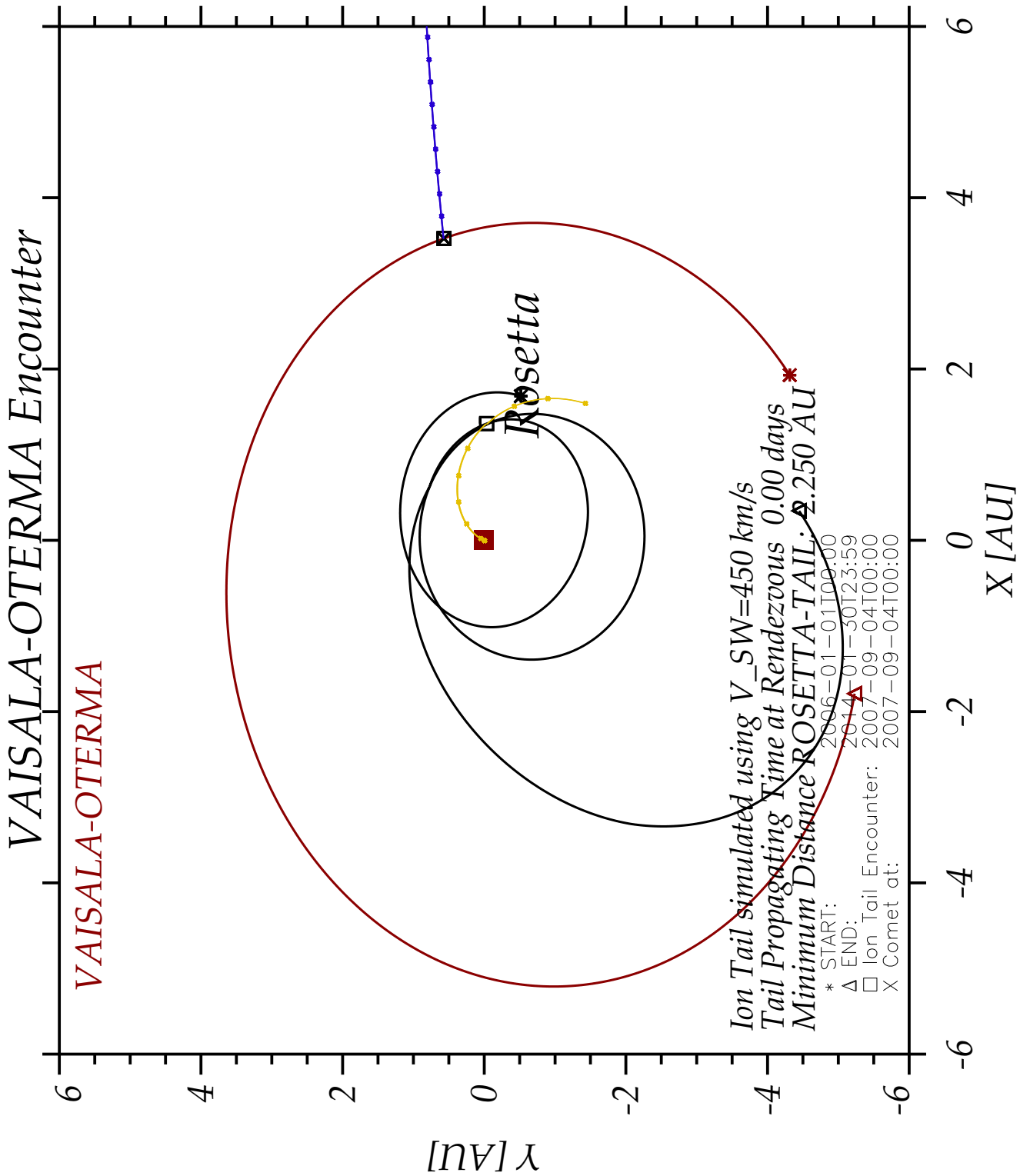


Figure 286: Overview: ROSETTA - VAISALA-OTERMA

<p style="text-align: center;">R O S E T T A</p>	<p>Document: RO-IGEP-TR-0020 Issue: 1 Revision: 2</p>
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146 Comet 140P/BOWELL-SKIFF

<p>Comet: 140P/BOWELL-SKIFF</p>
<p>No Encounter below 0.2000AU</p>

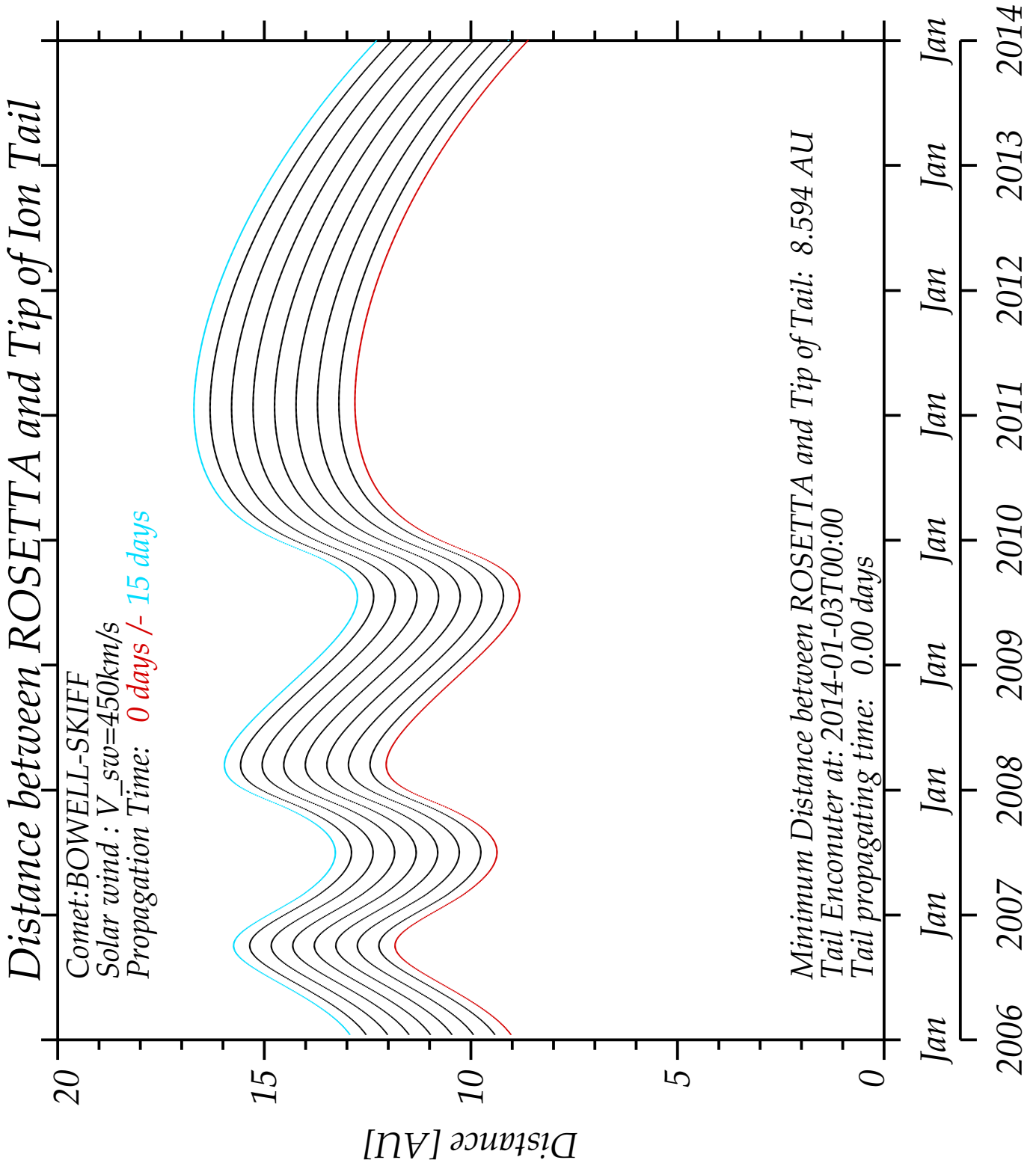


Figure 287: Minimum Distances: ROSETTA - BOWELL-SKIFF

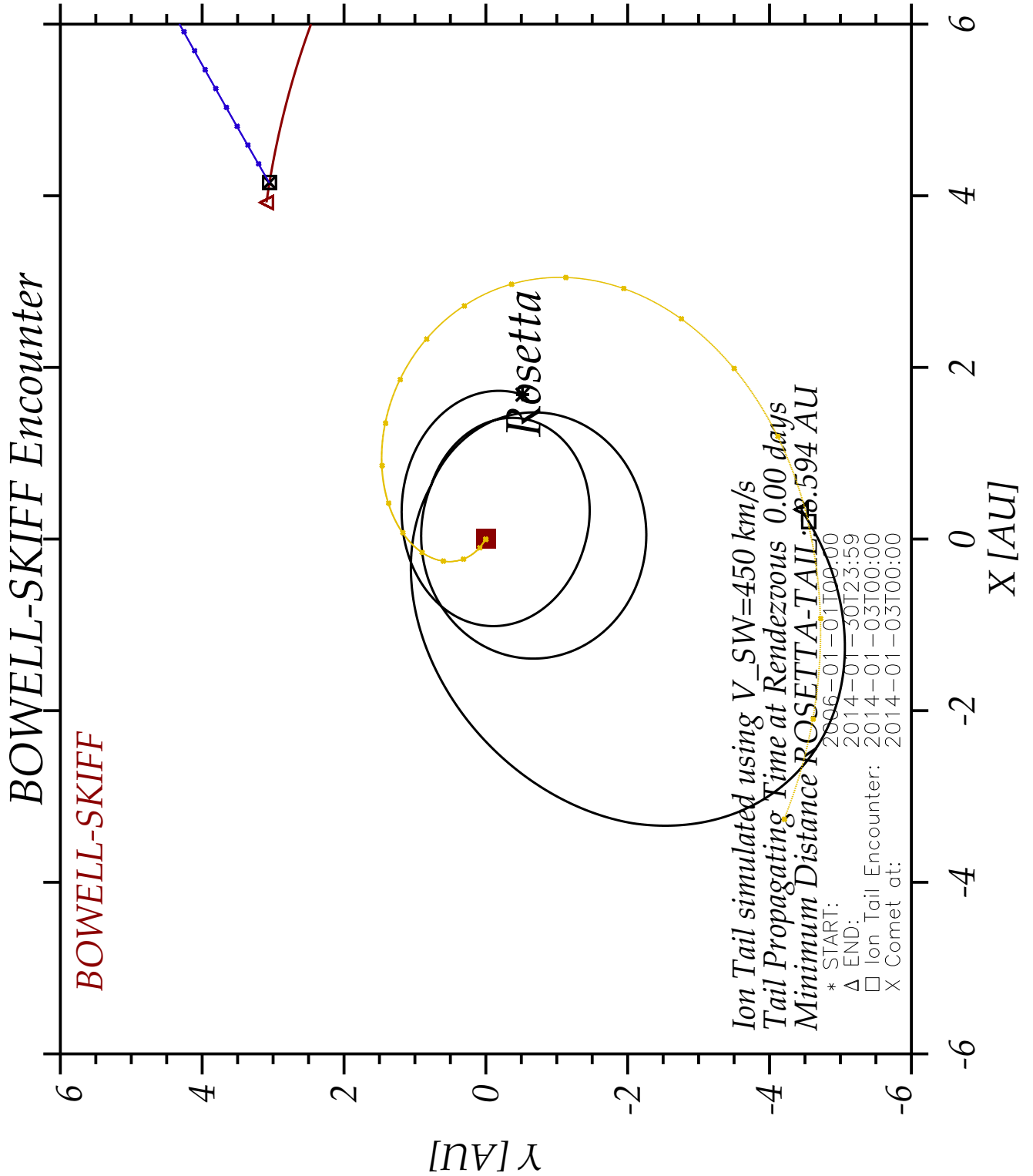


Figure 288: Overview: ROSETTA - BOWELL-SKIFF

<p style="text-align: center;">R O S E T T A</p>	<p>Document: RO-IGEP-TR-0020 Issue: 1 Revision: 2 Date: 2006-10-25 Page: 434</p>
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147 Comet 141PA/MACHHOLZ 2A

<p>Comet: 141PA/MACHHOLZ 2A</p>
<p>No Encounter below 0.2000AU</p>

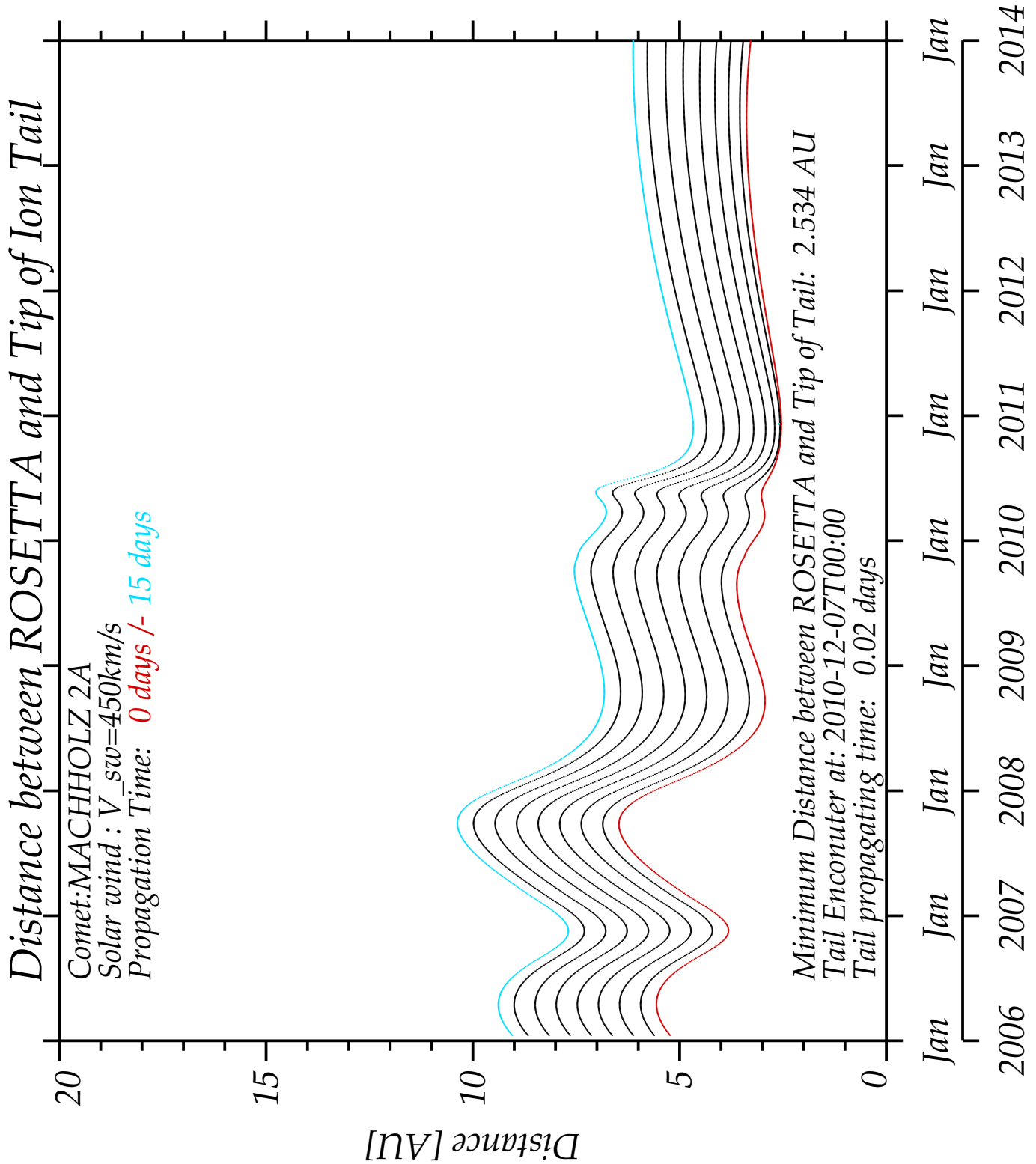


Figure 289: Minimum Distances: ROSETTA - MACHHOLZ 2A

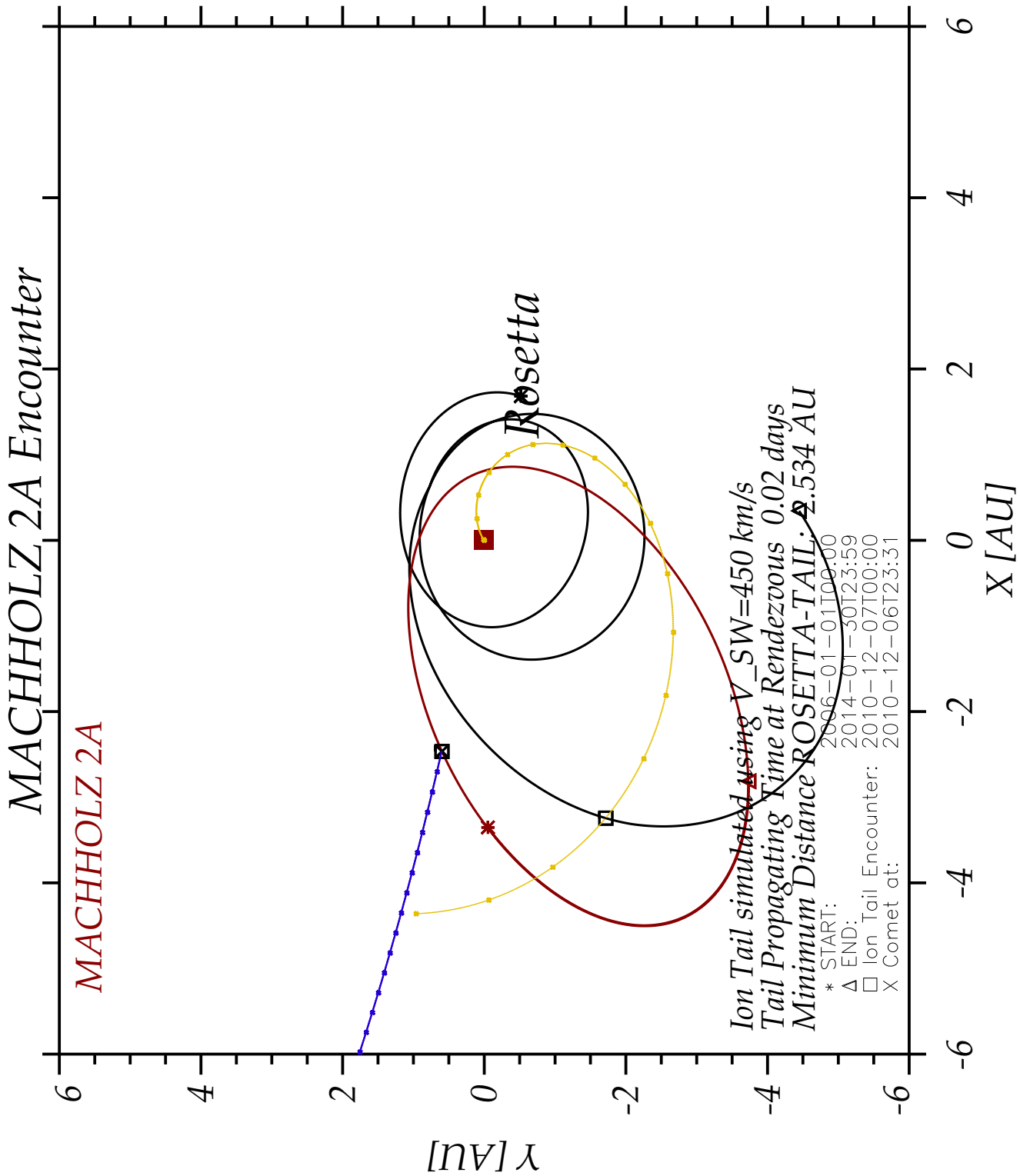


Figure 290: Overview: ROSETTA - MACHHOLZ 2A

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148 Comet 141PB/MACHHOLZ 2B

Comet: 141PB/MACHHOLZ 2B
No Encounter below 0.2000AU

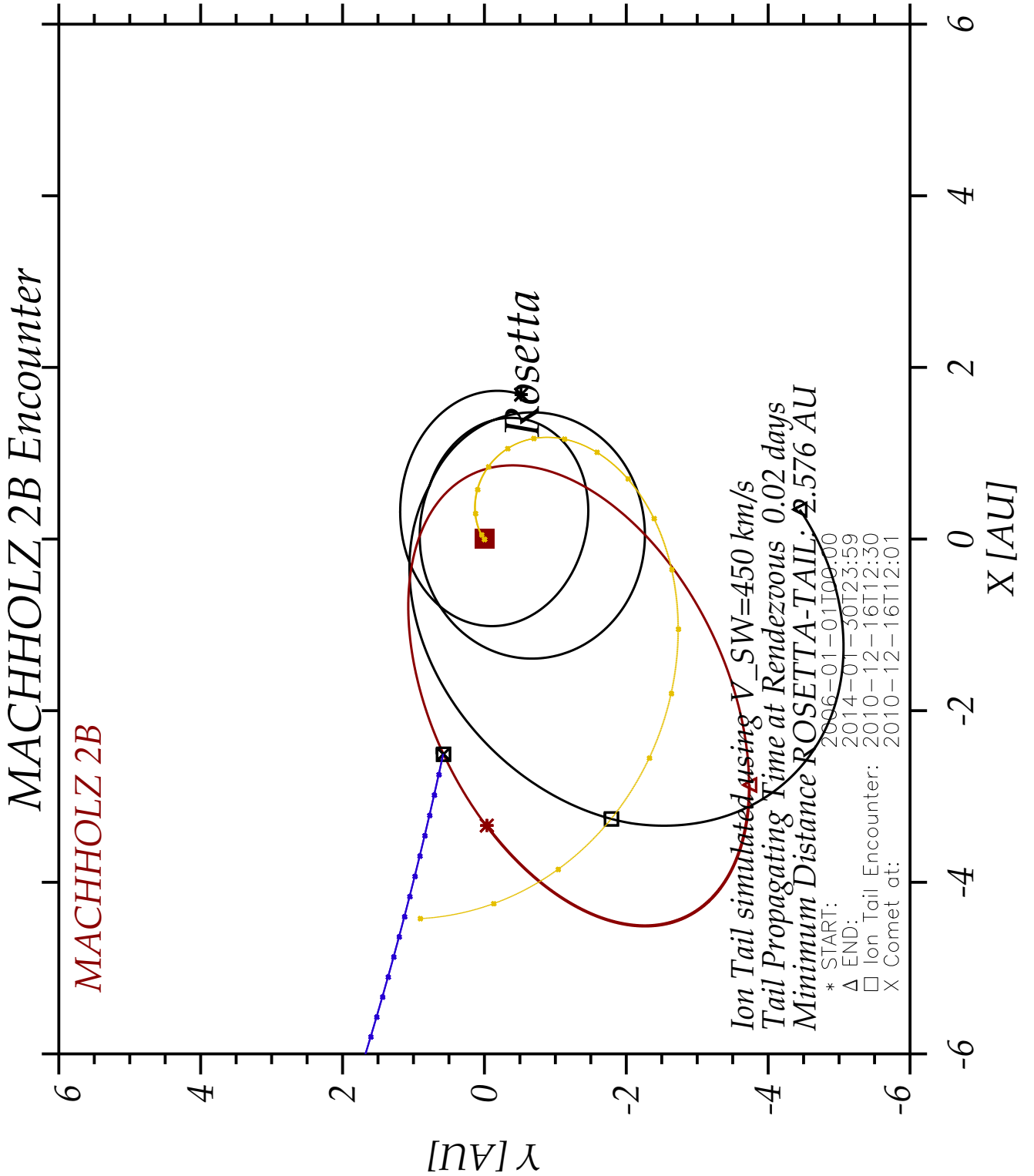


Figure 292: Overview: ROSETTA - MACHHOLZ 2B

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149 Comet 142P/GE-WANG

Comet: 142P/GE-WANG
No Encounter below 0.2000AU

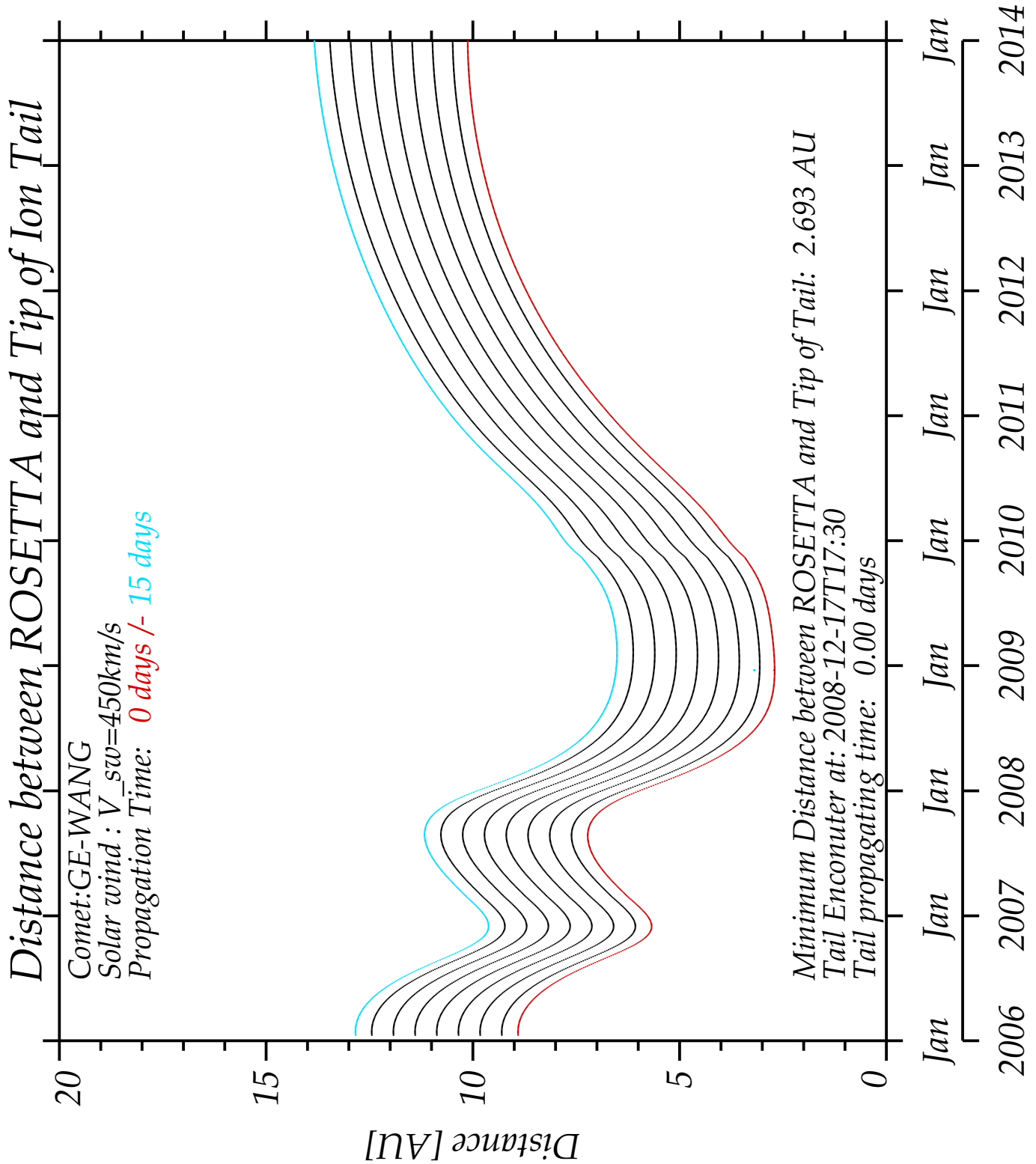


Figure 293: Minimum Distances: ROSETTA - GE-WANG

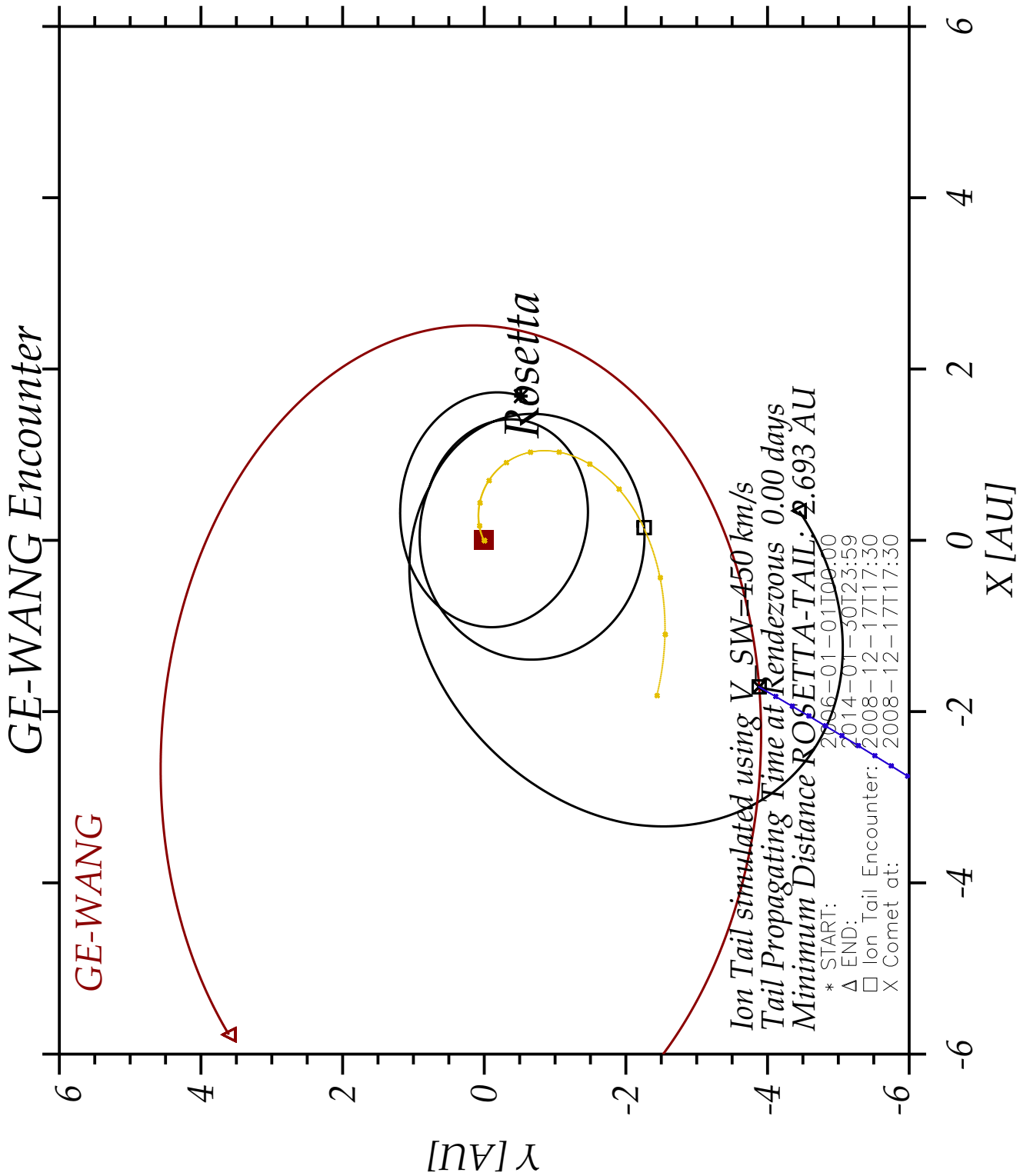


Figure 294: Overview: ROSETTA - GE-WANG

<p style="text-align: center;">R O S E T T A</p>	<p>Document: RO-IGEP-TR-0020 Issue: 1 Revision: 2</p>
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150 Comet 143P/KOWAL-MRKOS

<p>Comet: 143P/KOWAL-MRKOS</p>
<p>No Encounter below 0.2000AU</p>

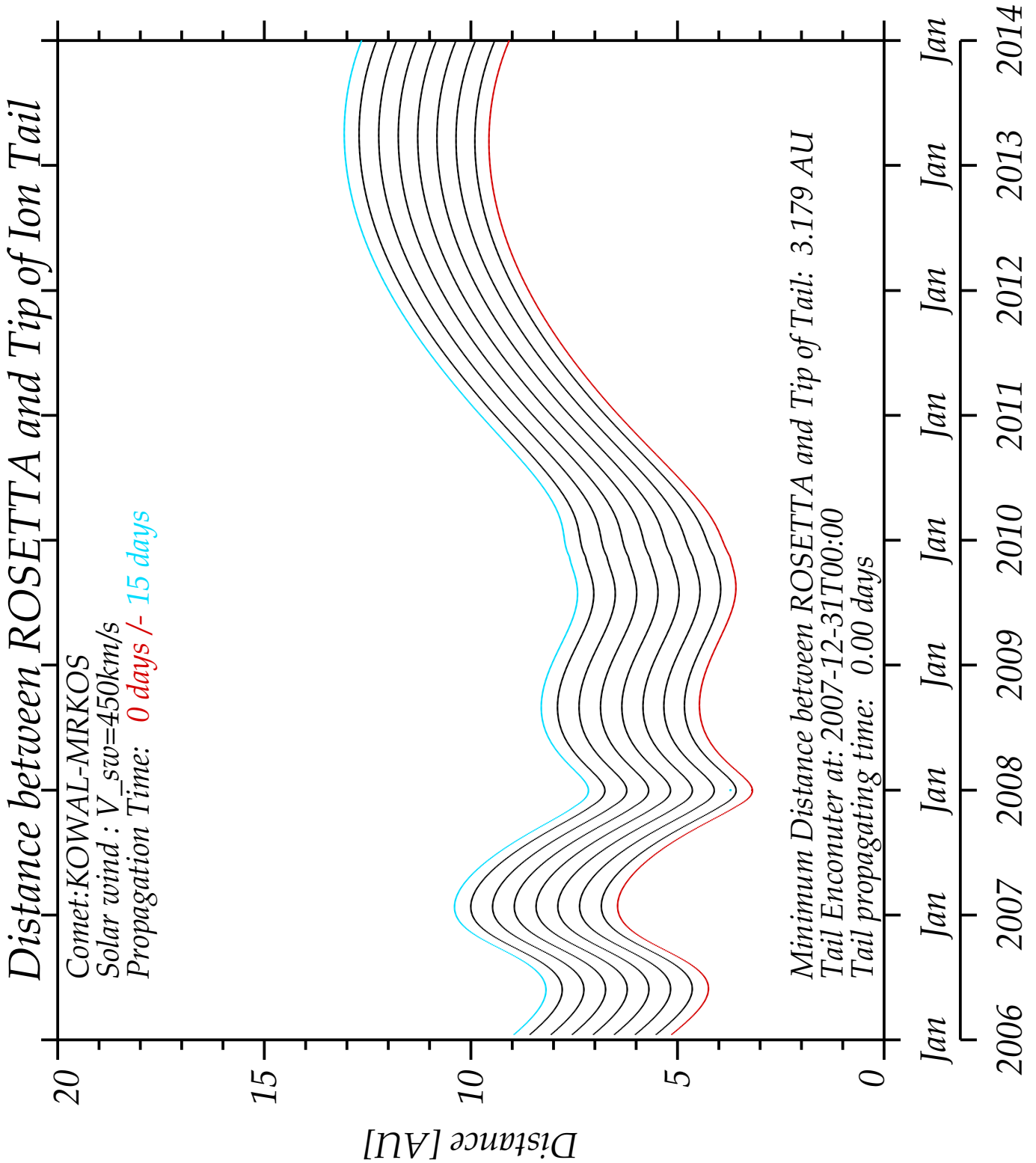


Figure 295: Minimum Distances: ROSETTA - KOWAL-MRKOS

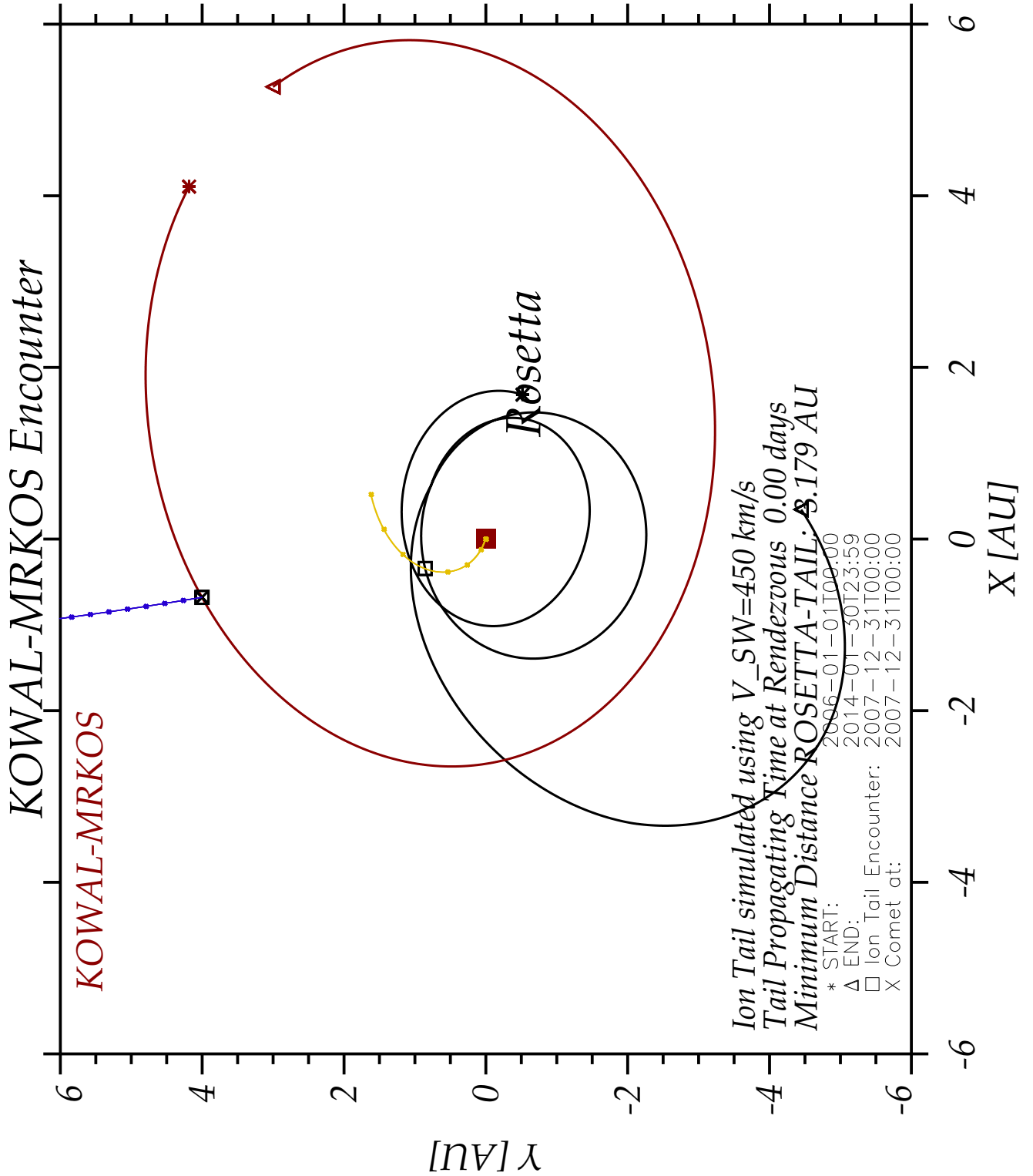


Figure 296: Overview: ROSETTA - KOWAL-MRKOS

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151 Comet 144P/KUSHIDA

Comet: 144P/KUSHIDA
No Encounter below 0.2000AU

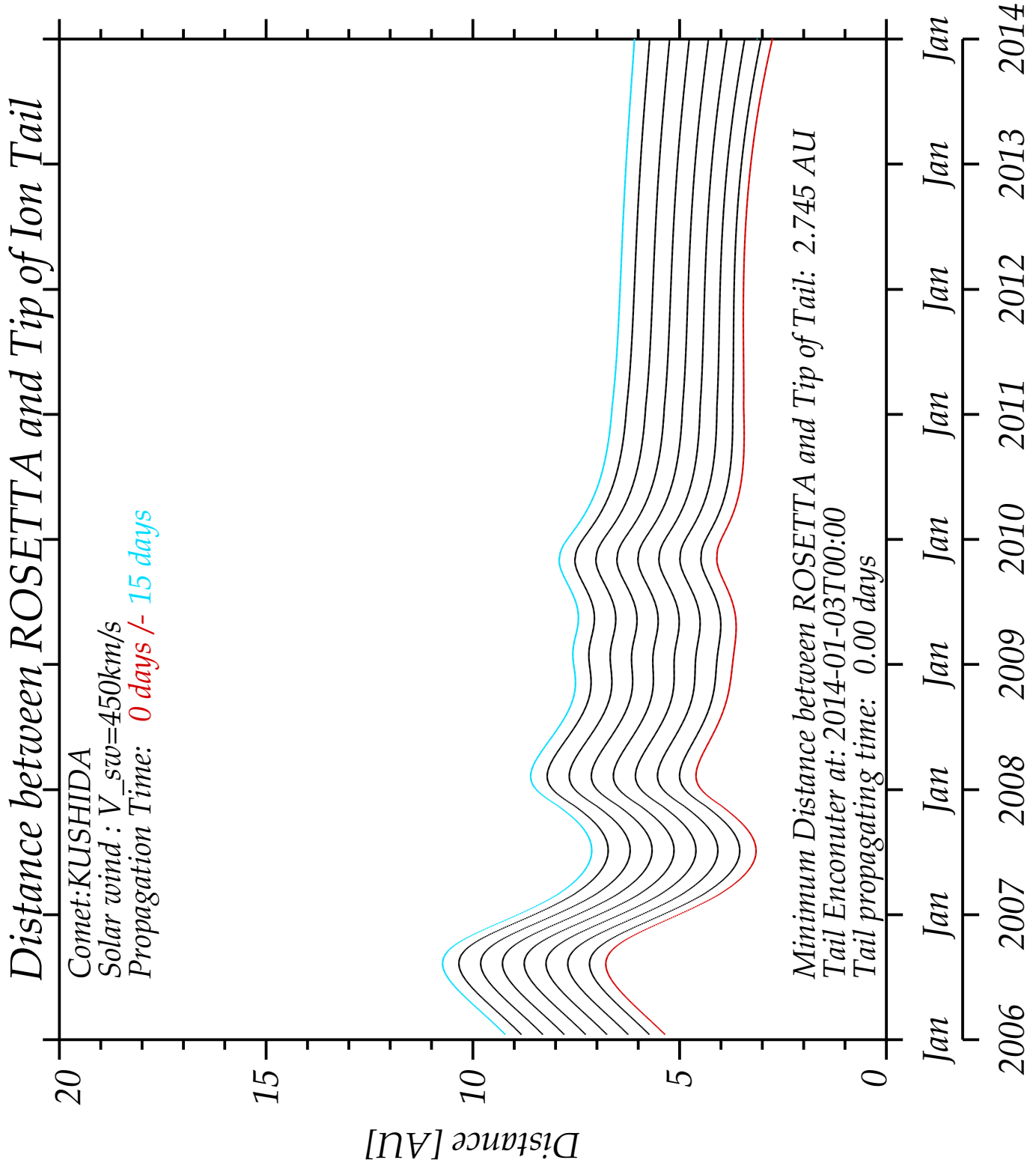


Figure 297: Minimum Distances: ROSETTA - KUSHIDA

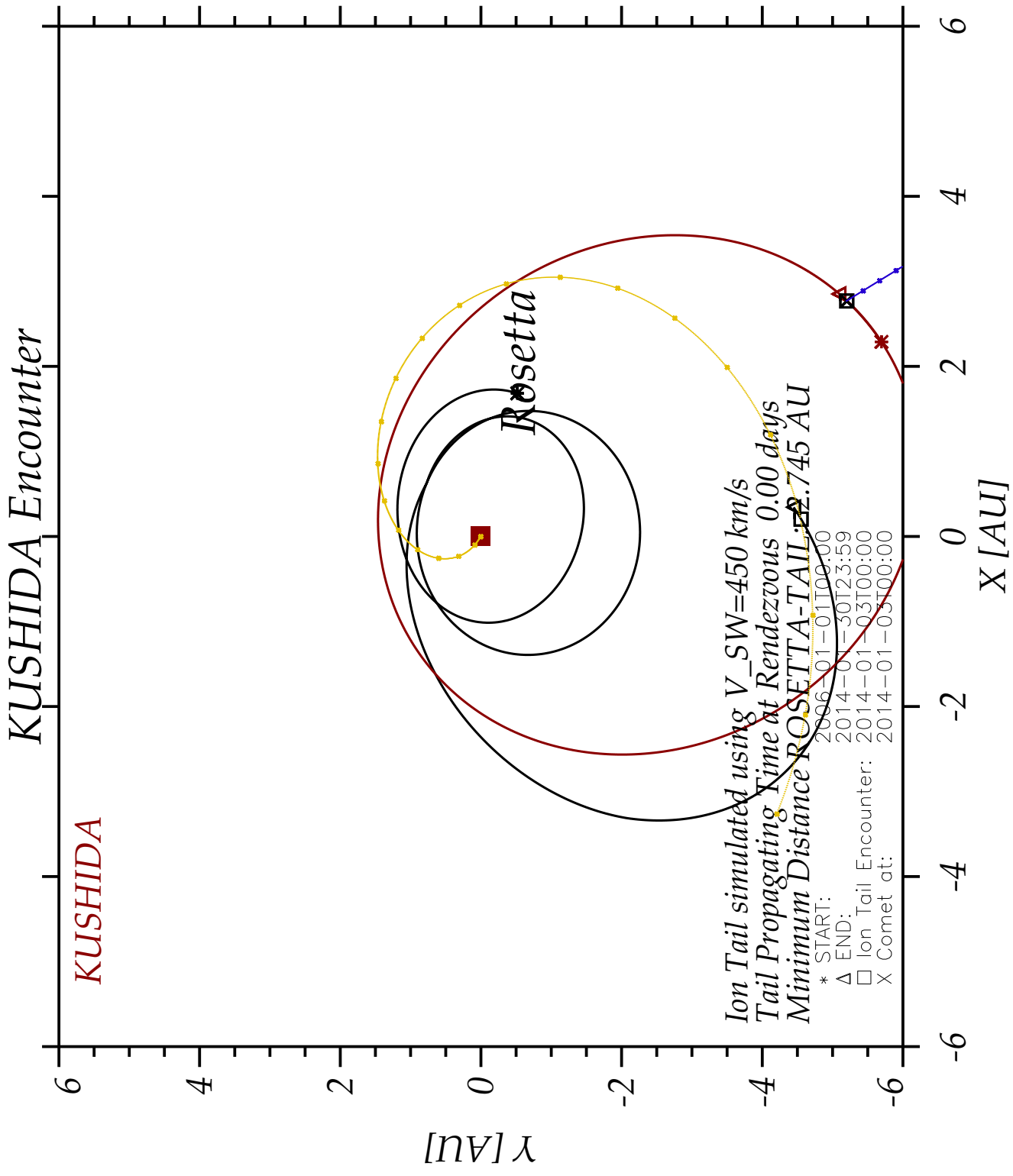


Figure 298: Overview: ROSETTA - KUSHIDA

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152 Comet 145P/SHOEMAKER-LEVY 5

Comet: 145P/SHOEMAKER-LEVY 5
No Encounter below 0.2000AU

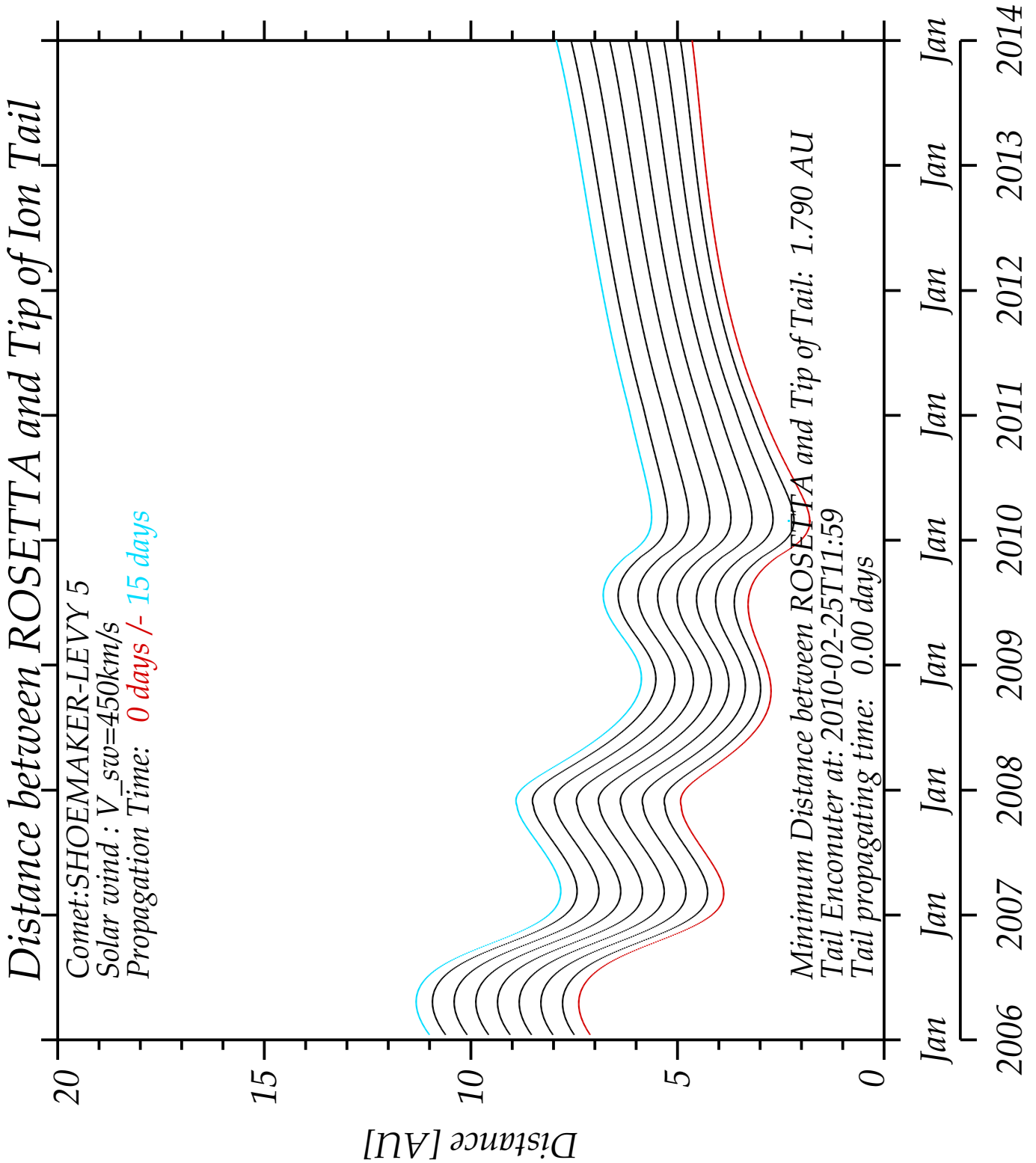


Figure 299: Minimum Distances: ROSETTA - SHOEMAKER-LEVY 5

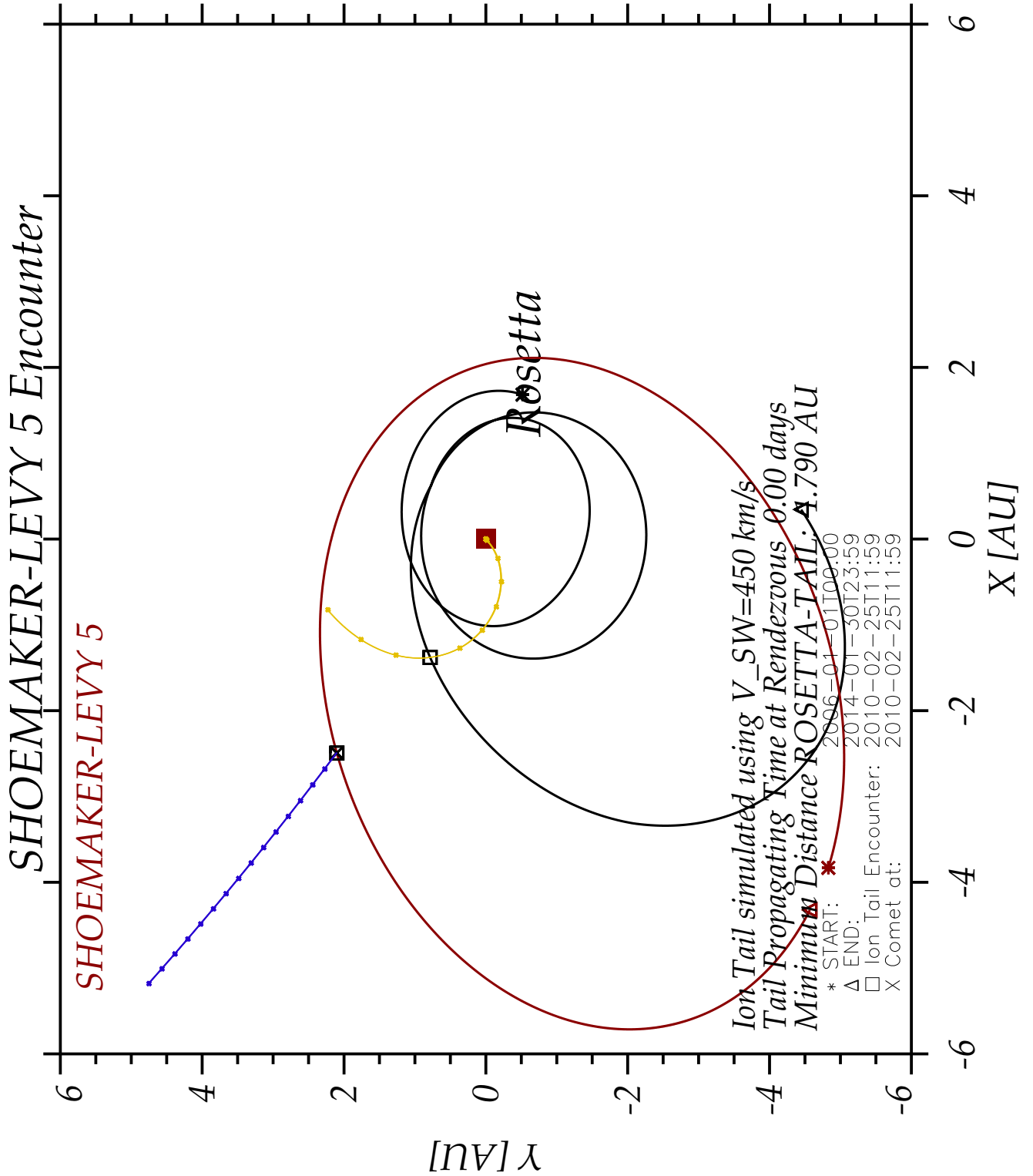


Figure 300: Overview: ROSETTA - SHOEMAKER-LEVY 5

<p style="text-align: center;">R O S E T T A</p>	<p>Document: RO-IGEP-TR-0020 Issue: 1 Revision: 2 Date: 2006-10-25 Page: 452</p>
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153 Comet 146P/SHOEMAKER-LINEAR

<p>Comet: 146P/SHOEMAKER-LINEAR</p>
<p>No Encounter below 0.2000AU</p>

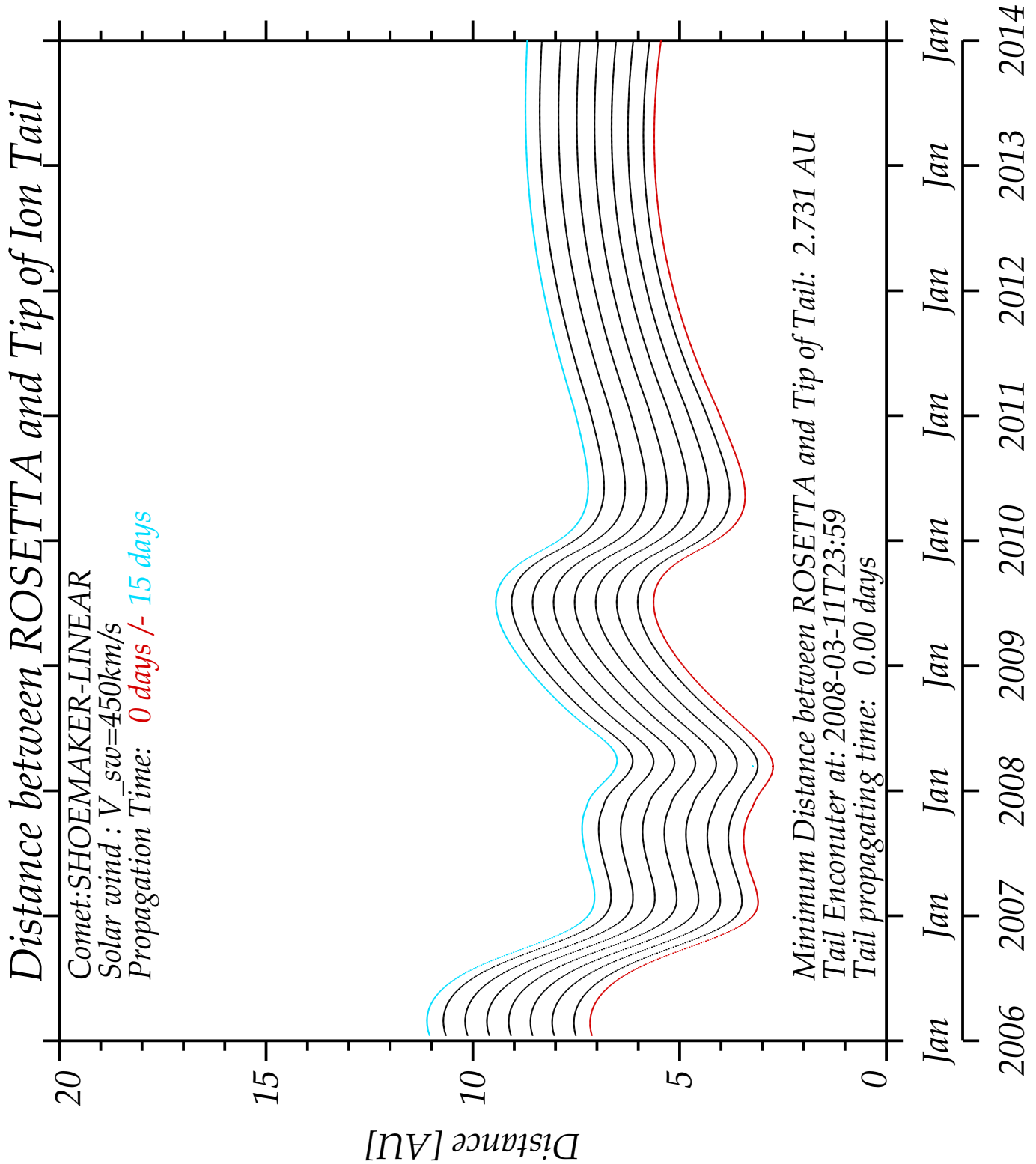


Figure 301: Minimum Distances: ROSETTA - SHOEMAKER-LINEAR

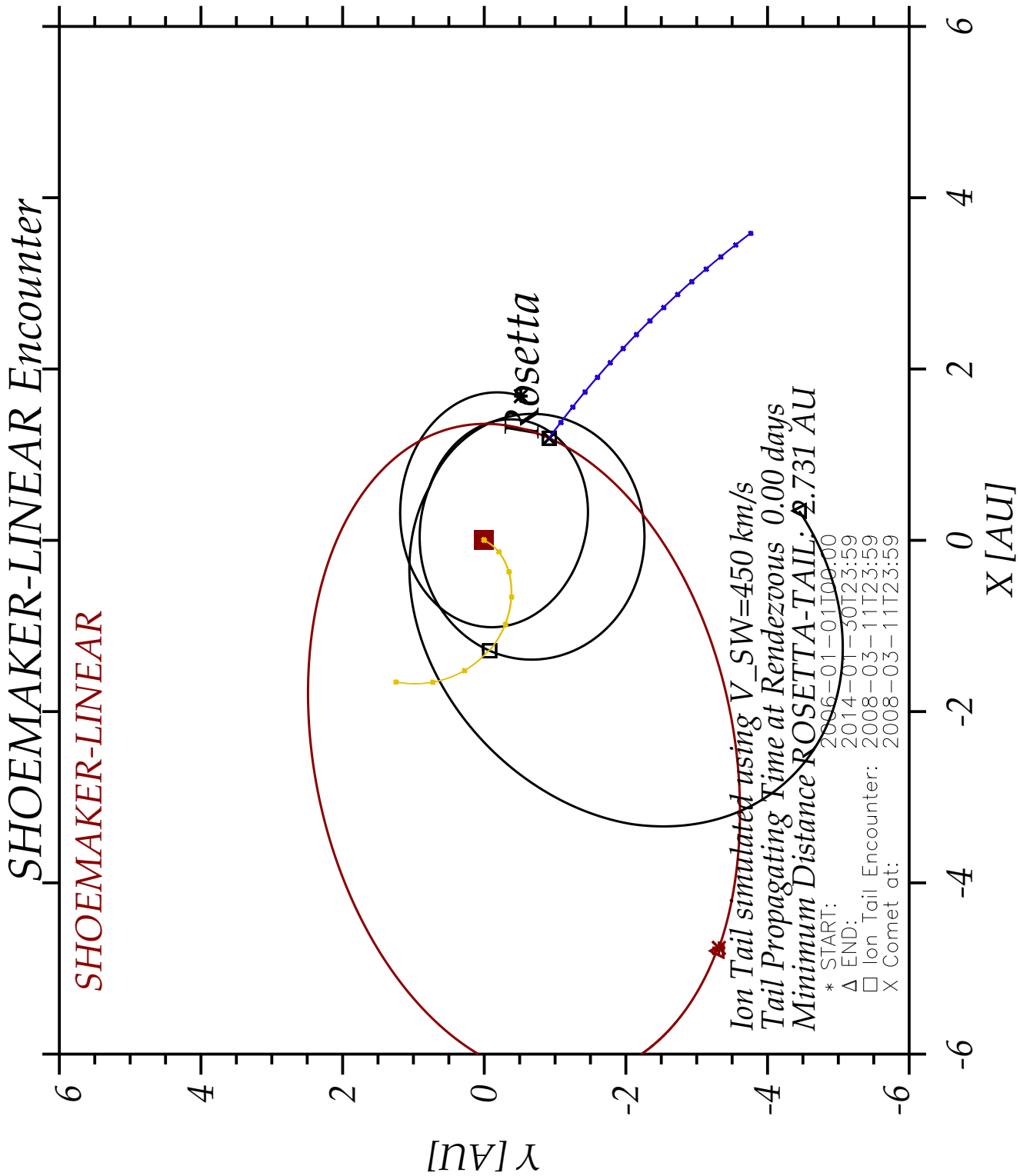


Figure 302: Overview: ROSETTA - SHOEMAKER-LINEAR

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154 Comet 147P/KUSHIDA-MURAMATSU

Comet: 147P/KUSHIDA-MURAMATSU
No Encounter below 0.2000AU

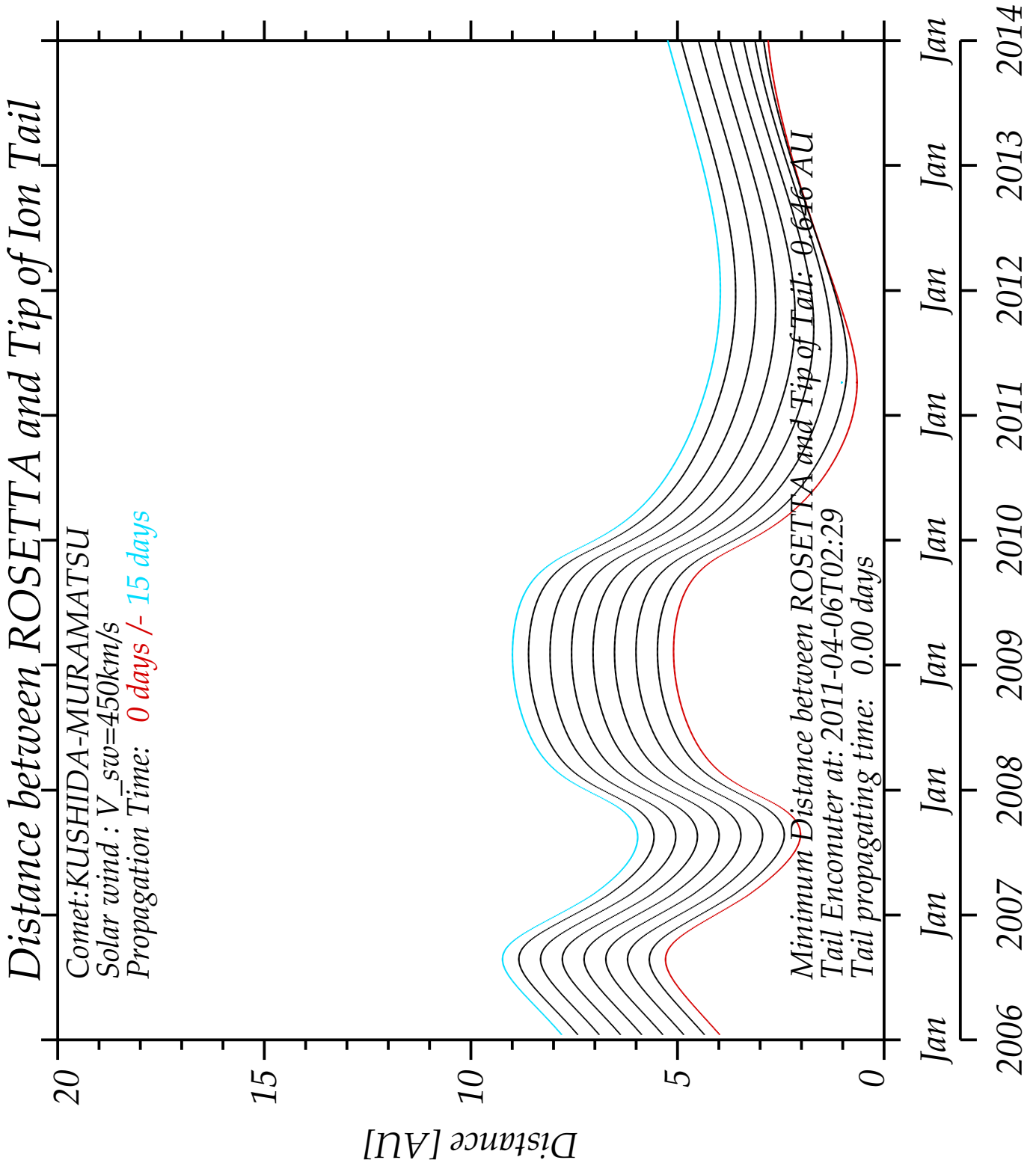


Figure 303: Minimum Distances: ROSETTA - KUSHIDA-MURAMATSU

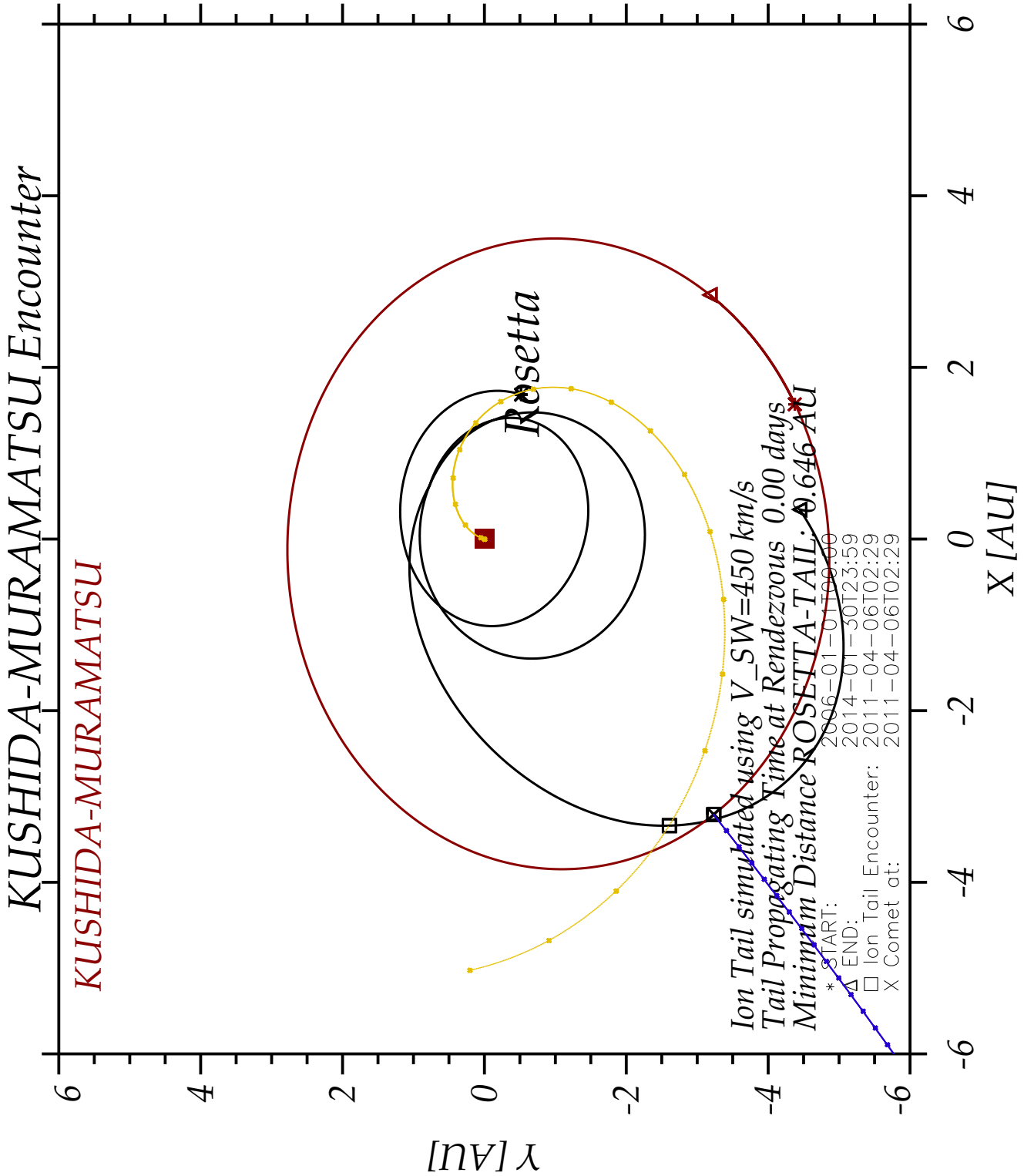


Figure 304: Overview: ROSETTA - KUSHIDA-MURAMATSU

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155 Comet 148P/ANDERSON-LINEAR

Comet: 148P/ANDERSON-LINEAR
No Encounter below 0.2000AU

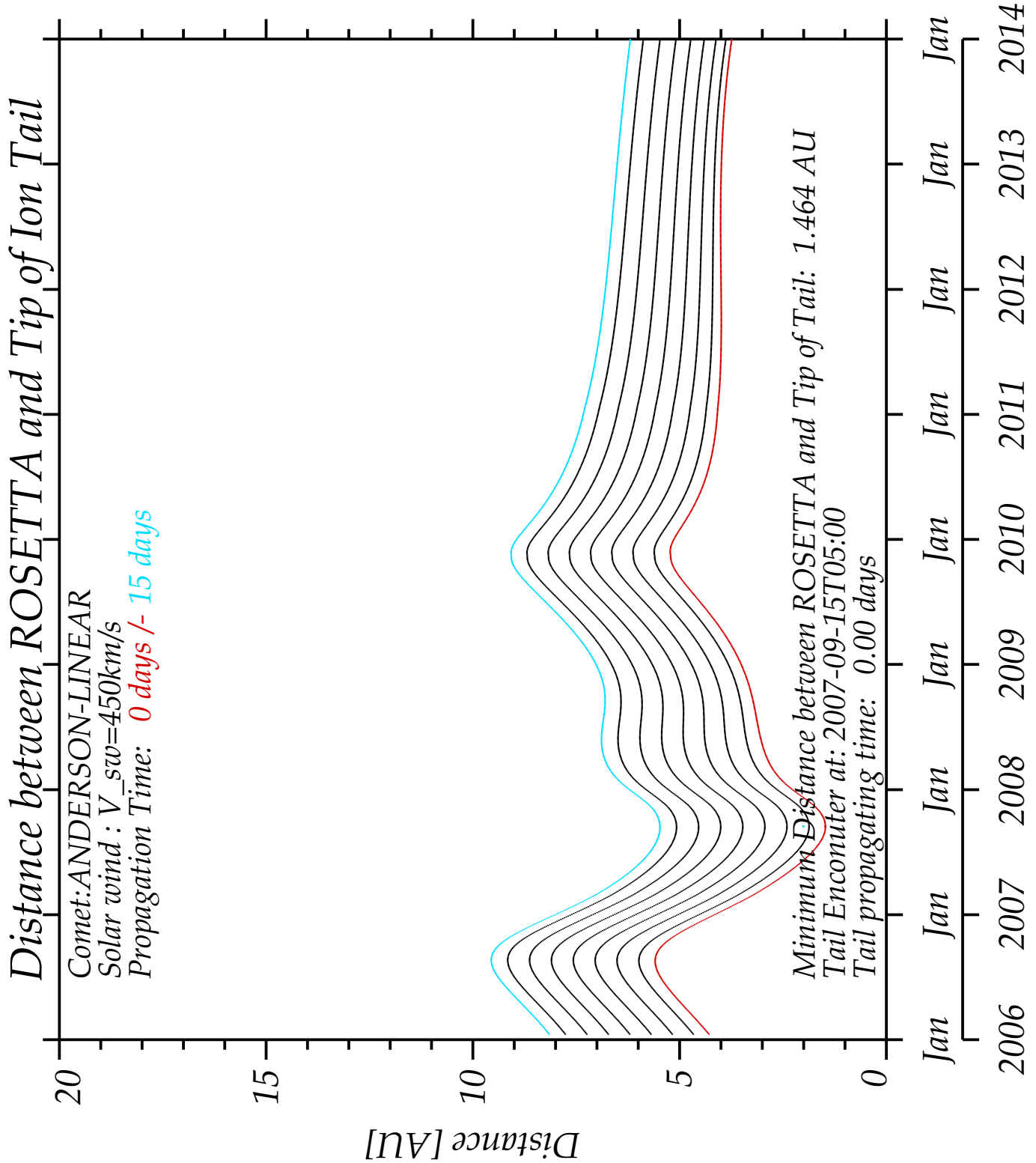


Figure 305: Minimum Distances: ROSETTA - ANDERSON-LINEAR

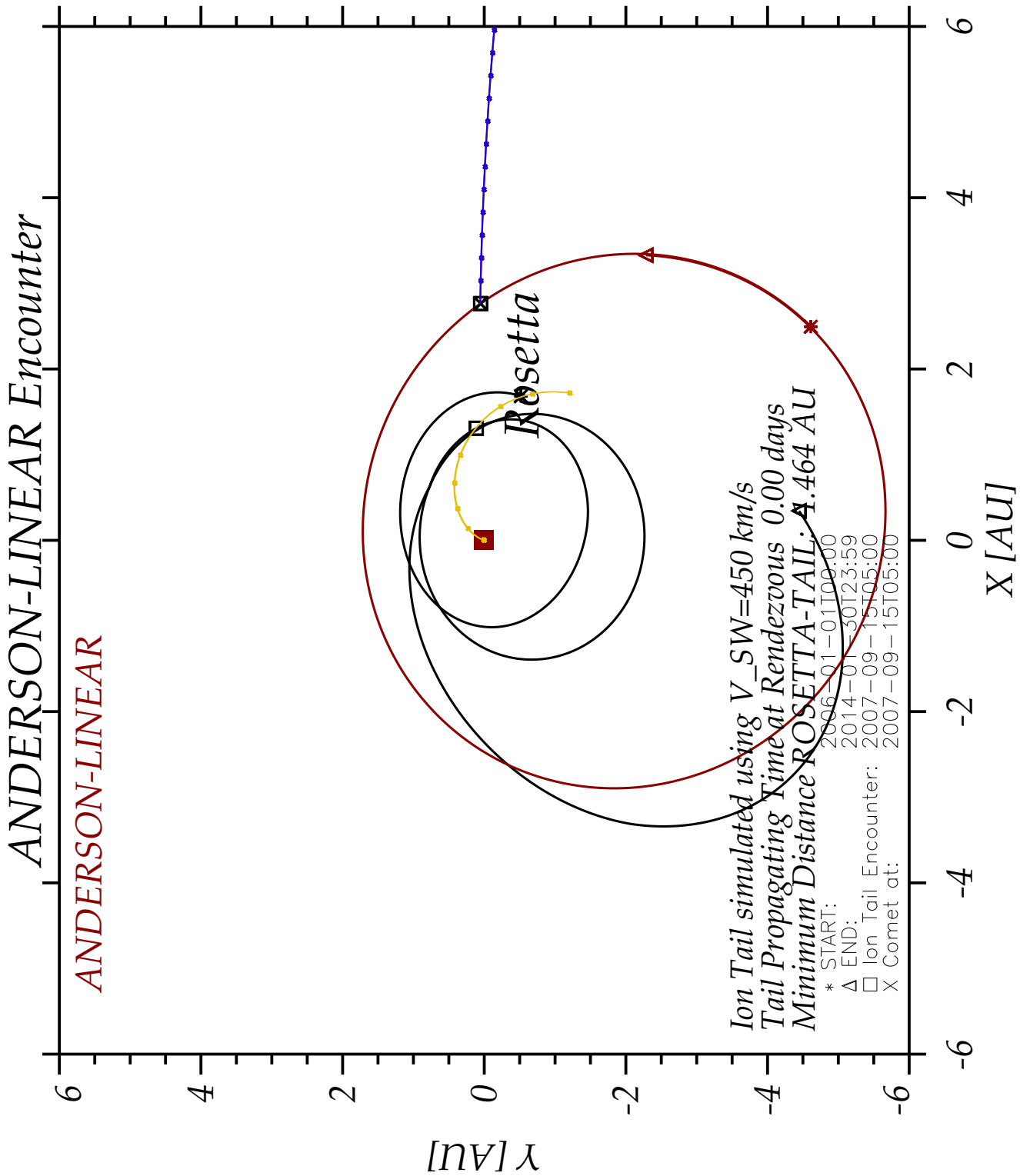


Figure 306: Overview: ROSETTA - ANDERSON-LINEAR

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156 Comet 149P/MUELLER 4

Comet: 149P/MUELLER 4
No Encounter below 0.2000AU

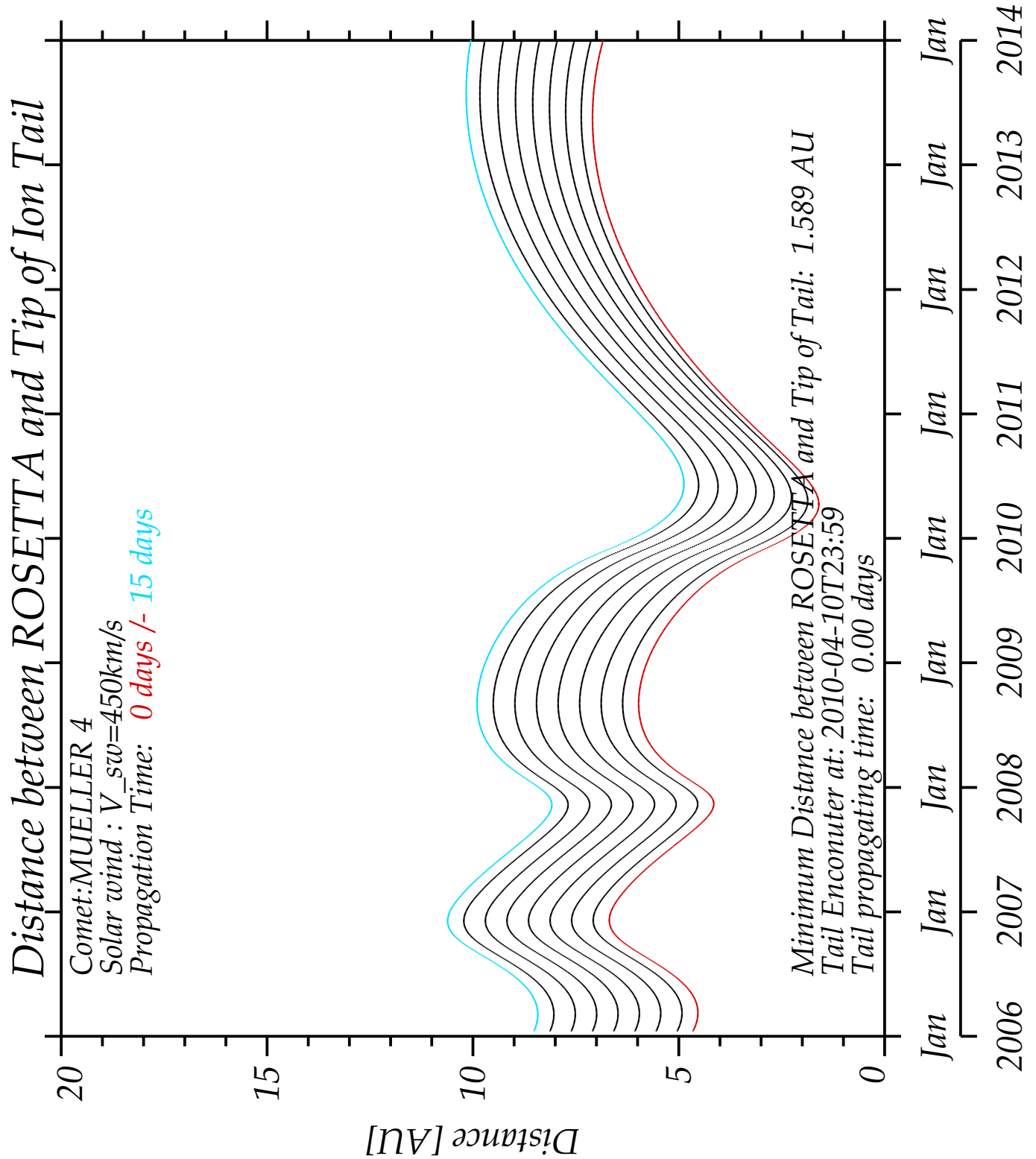


Figure 307: Minimum Distances: ROSETTA - MUELLER 4

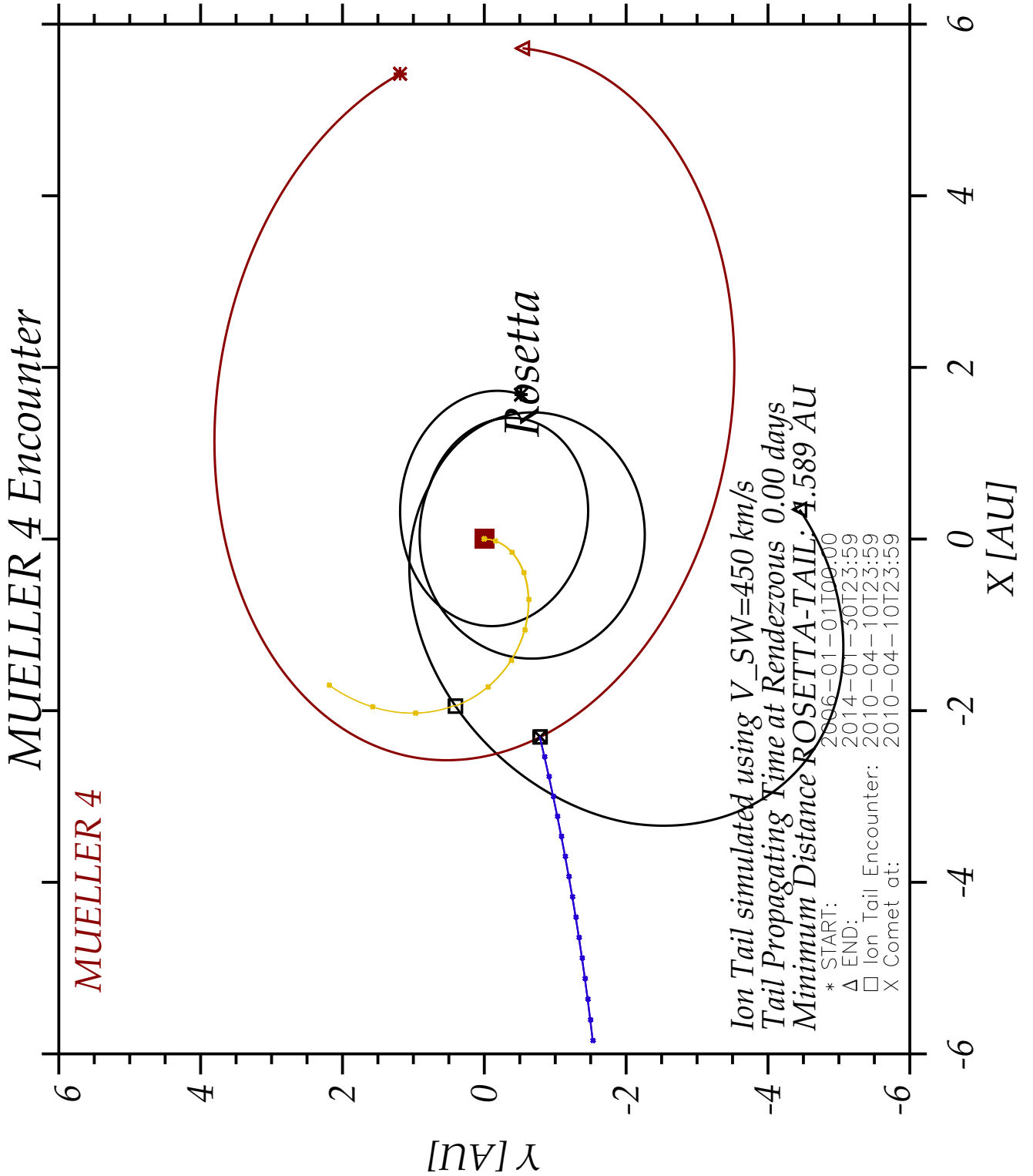


Figure 308: Overview: ROSETTA - MUELLER 4

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157 Comet 150P/LONEOS 150

Comet: 150P/LONEOS 150
No Encounter below 0.2000AU

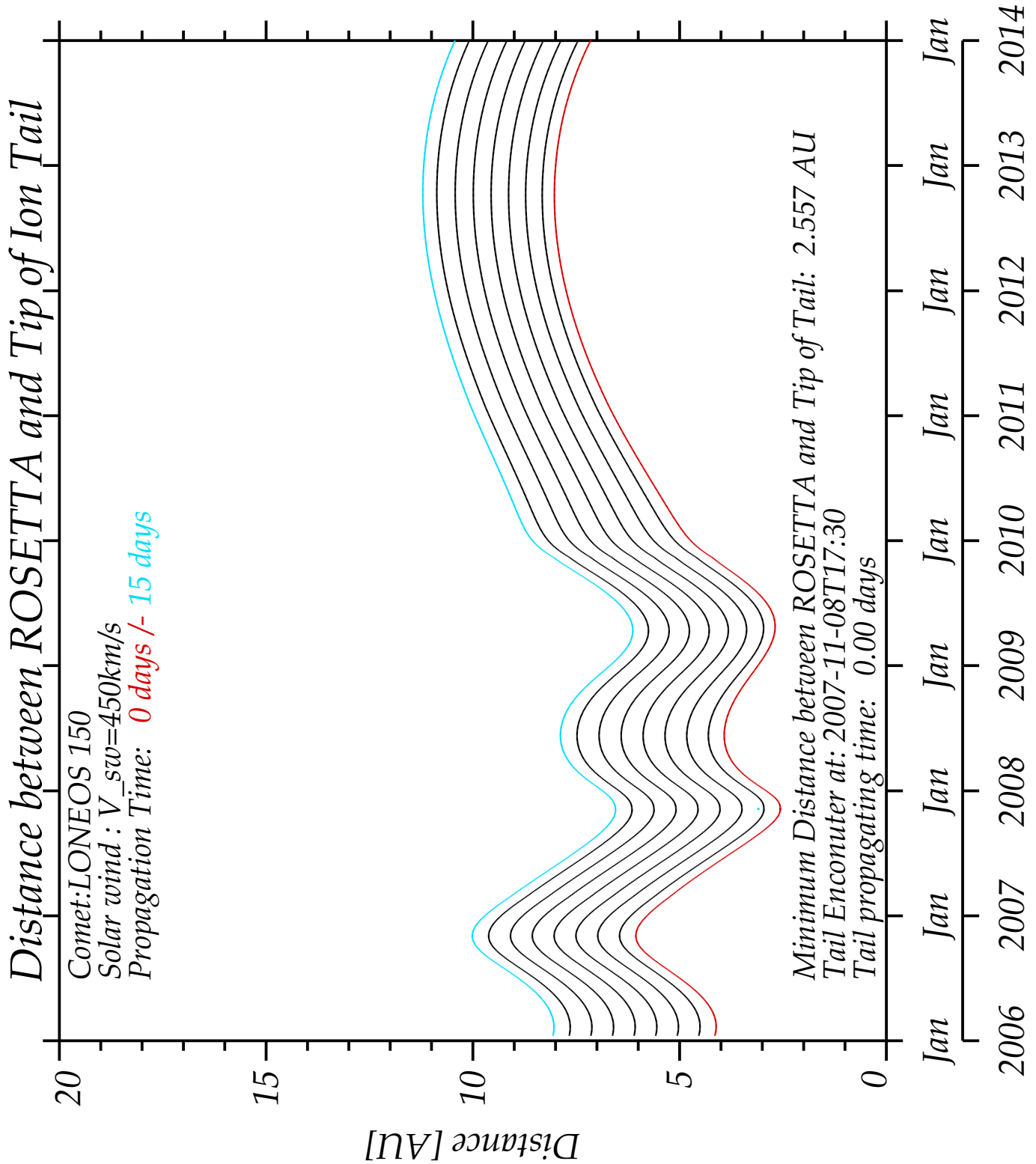


Figure 309: Minimum Distances: ROSETTA - LONEOS 150

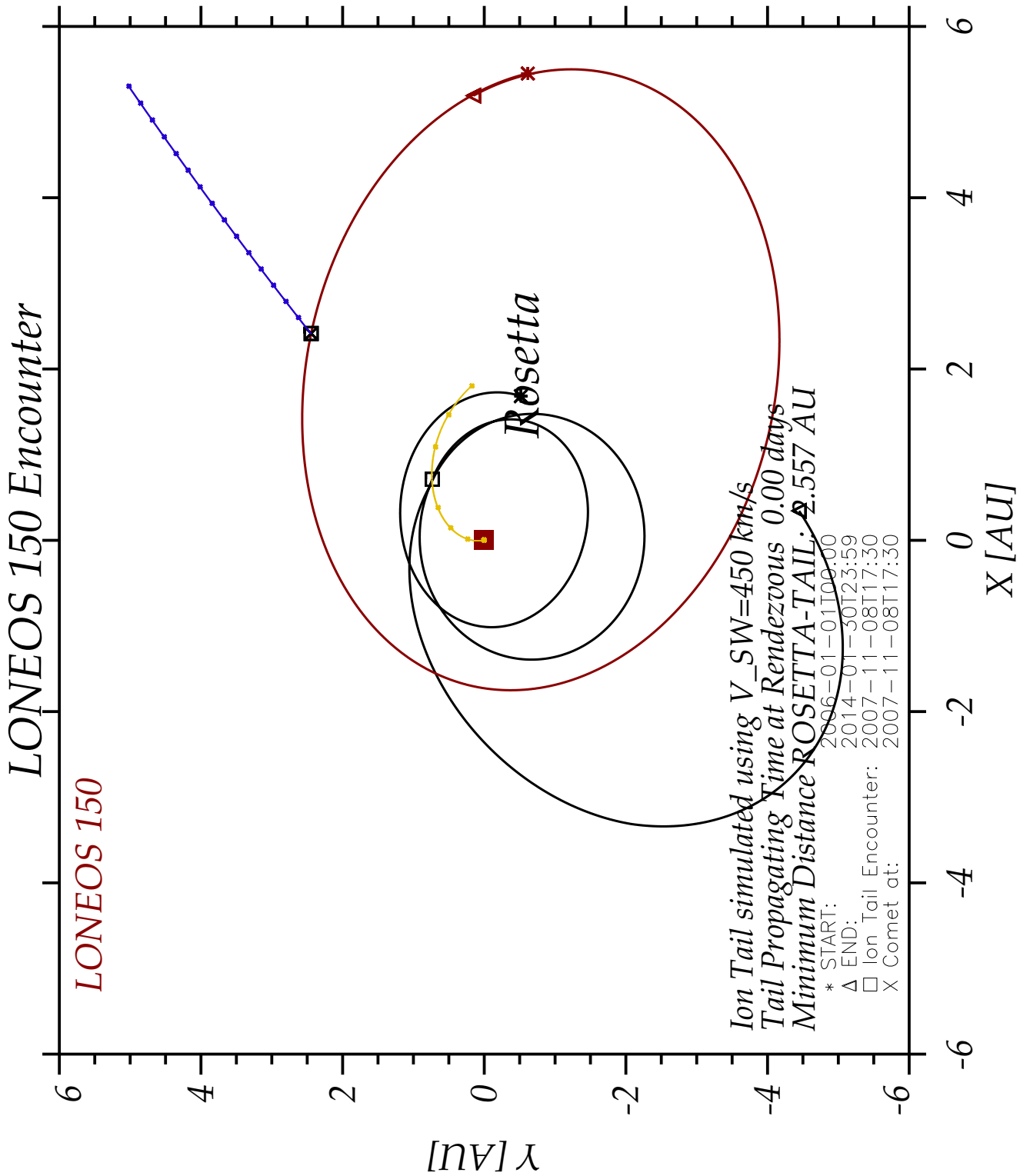


Figure 310: Overview: ROSETTA - LONEOS 150

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158 Comet 151P/HELIN

Comet: 151P/HELIN
No Encounter below 0.2000AU

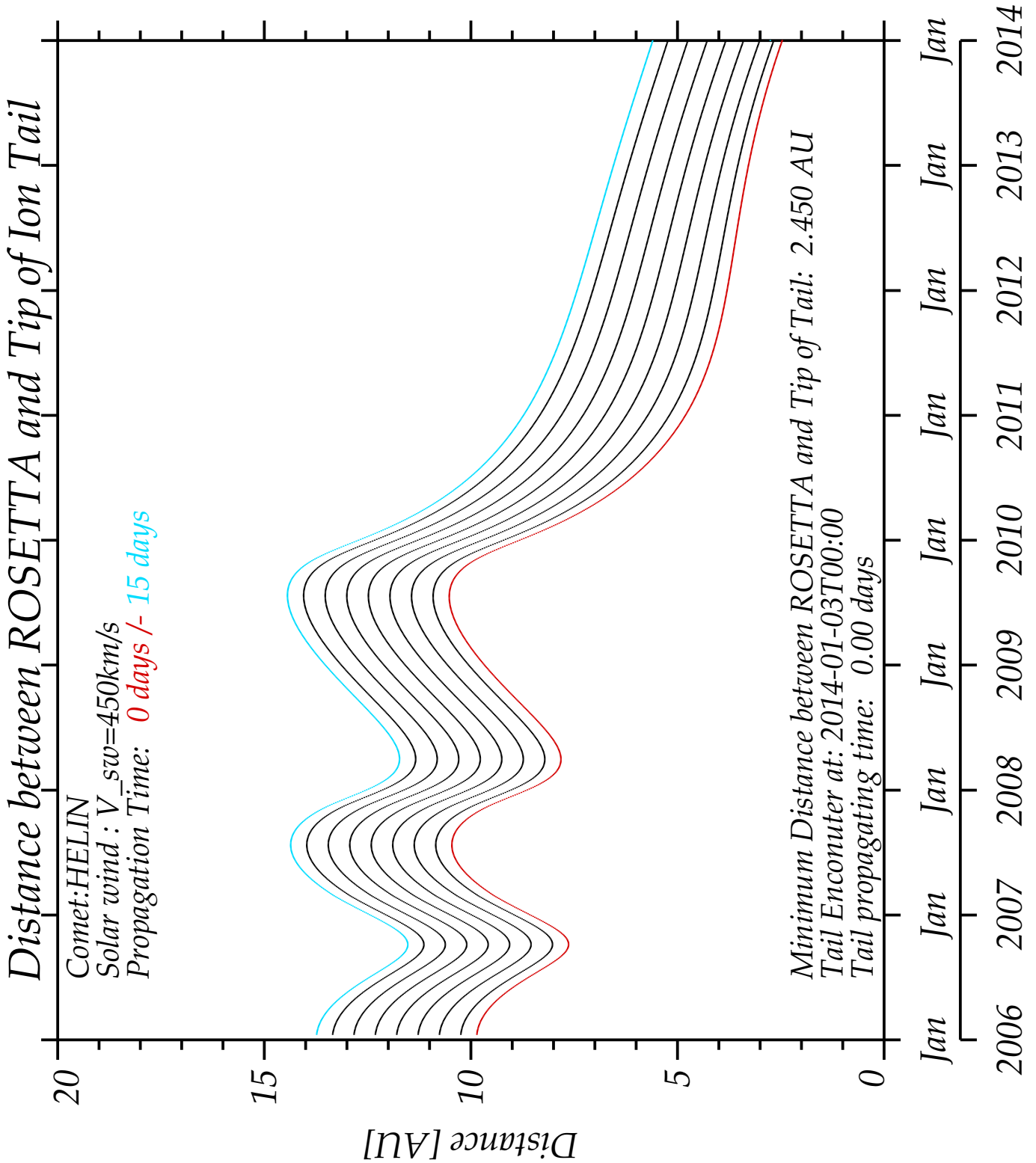


Figure 311: Minimum Distances: ROSETTA - HELIN

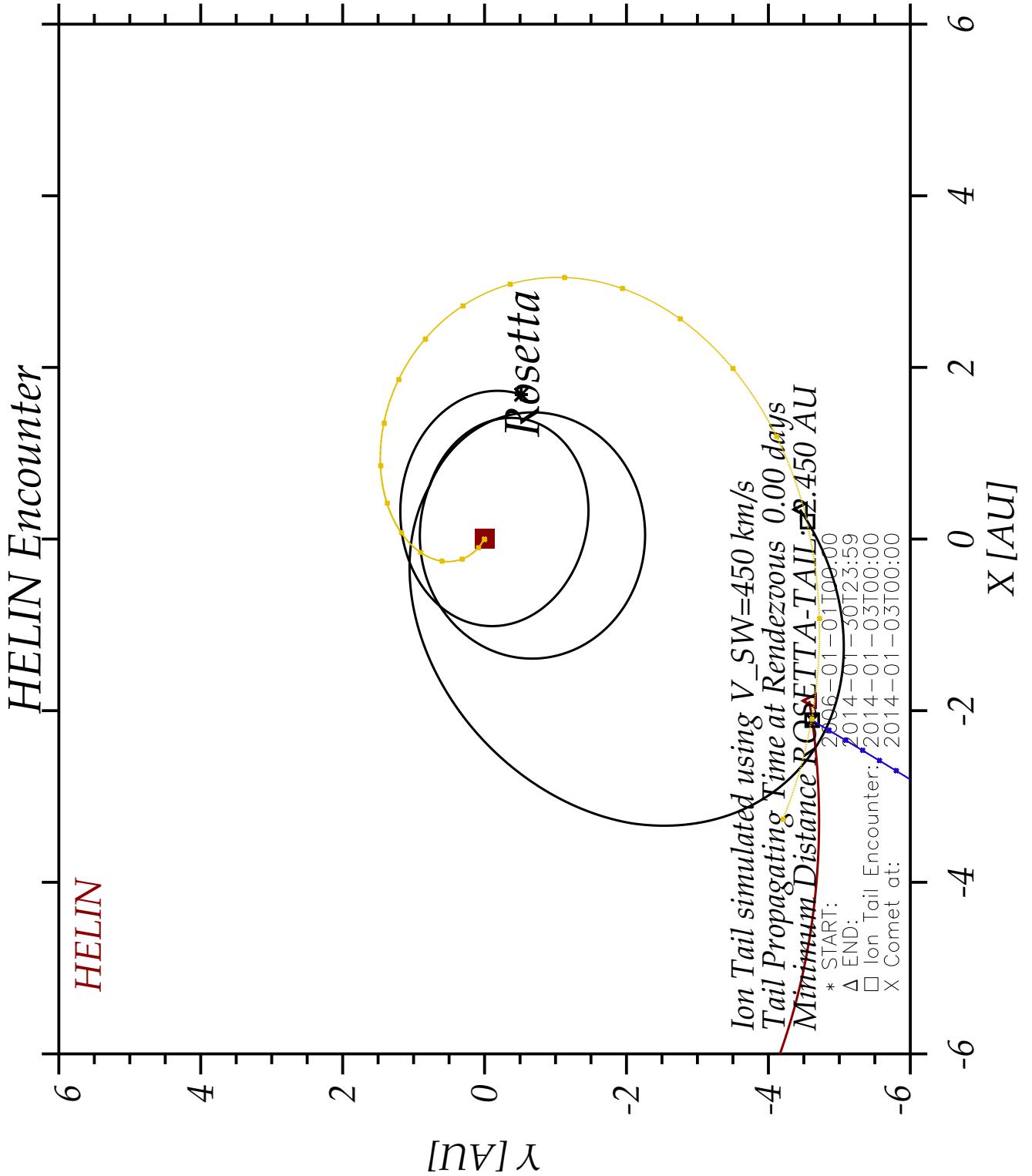


Figure 312: Overview: ROSETTA - HELIN

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159 Comet 152P/HELIN-LAWRENCE

Comet: 152P/HELIN-LAWRENCE
No Encounter below 0.2000AU

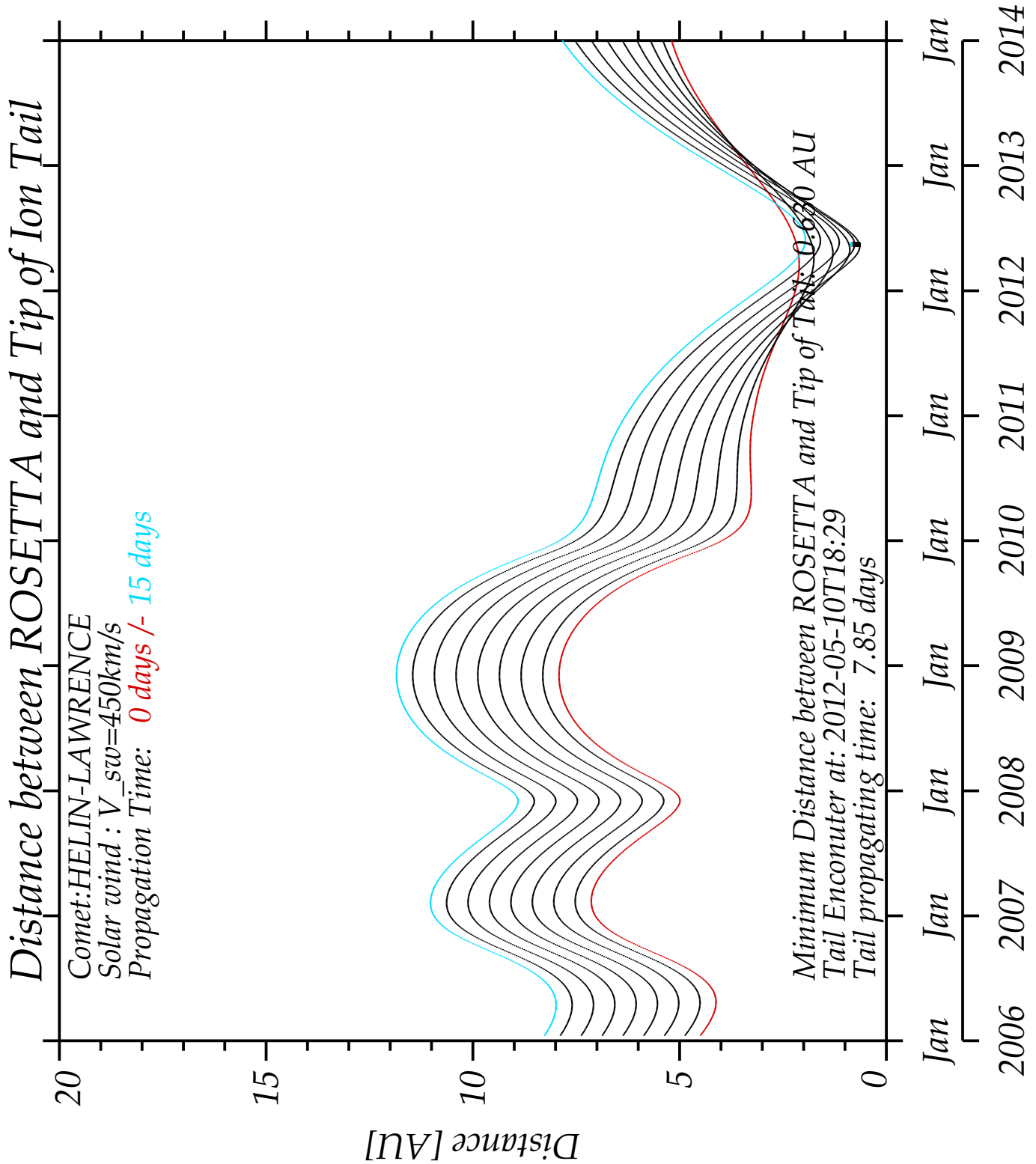


Figure 313: Minimum Distances: ROSETTA - HELIN-LAWRENCE

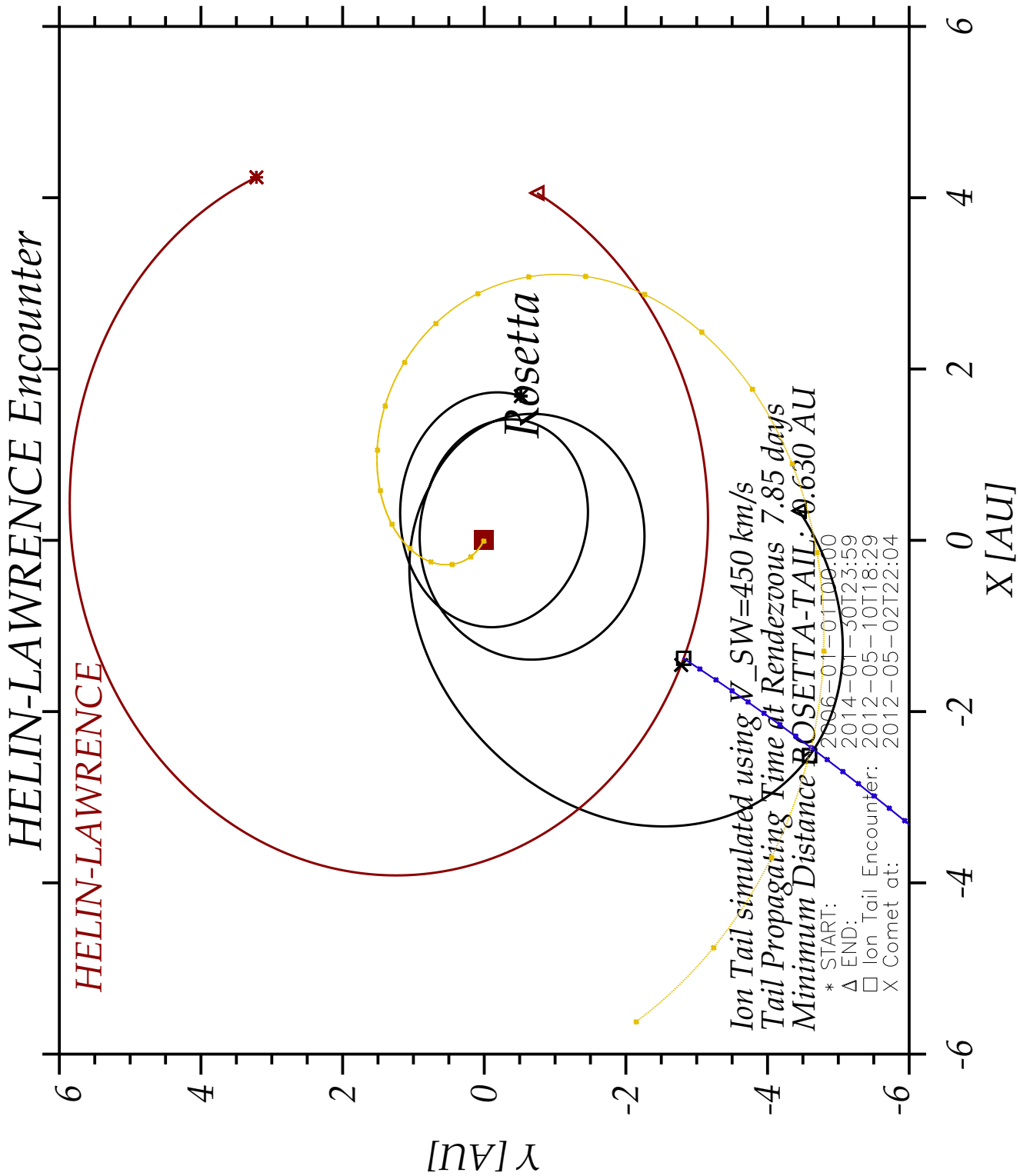


Figure 314: Overview: ROSETTA - HELIN-LAWRENCE

<p style="text-align: center;">R O S E T T A</p>	<p>Document: RO-IGEP-TR-0020 Issue: 1 Revision: 2</p>
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160 Comet 153P/IKEYA-ZHANG

<p>Comet: 153P/IKEYA-ZHANG</p>
<p>No Encounter below 0.2000AU</p>

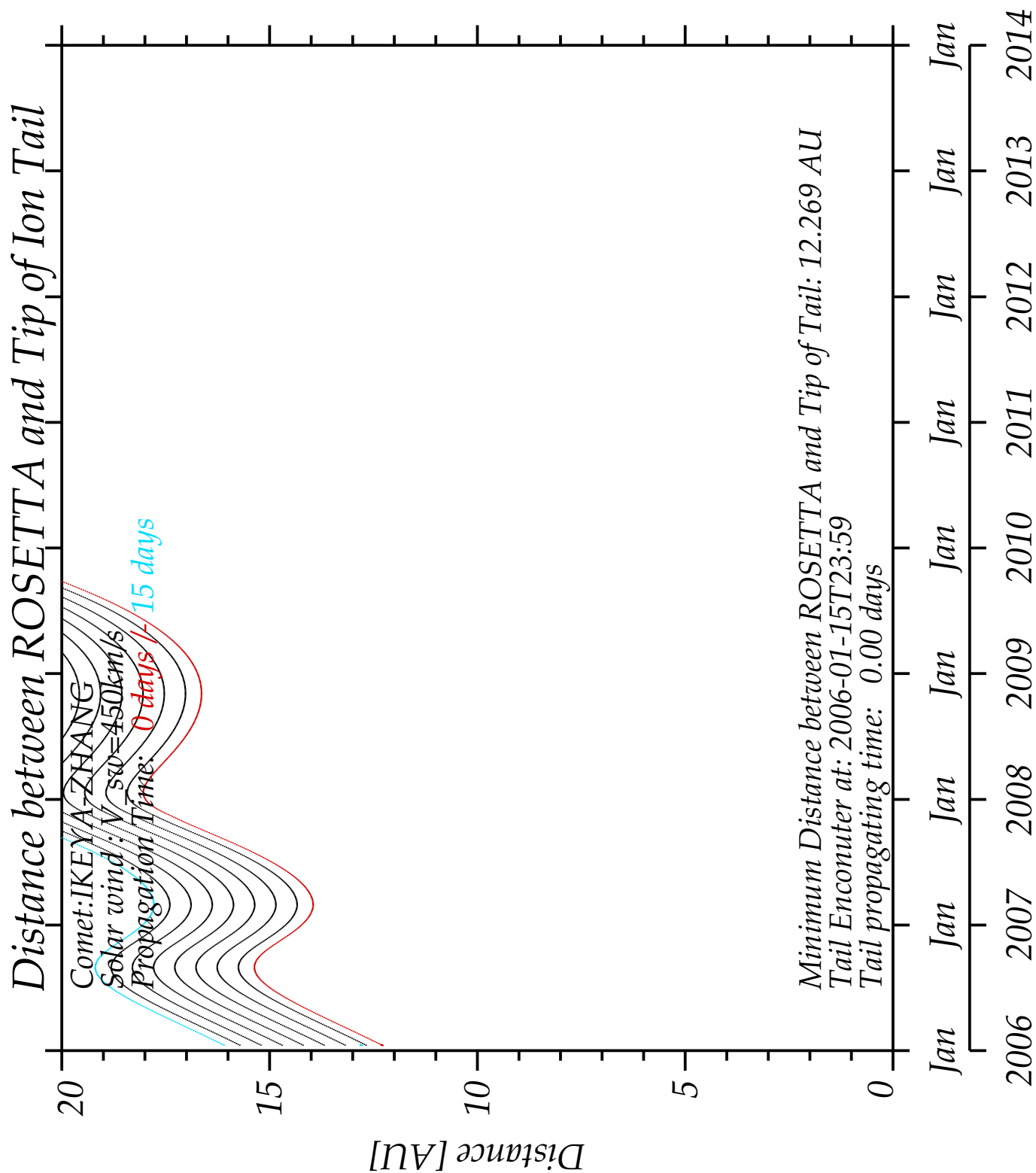


Figure 315: Minimum Distances: ROSETTA - IKEYA-ZHANG

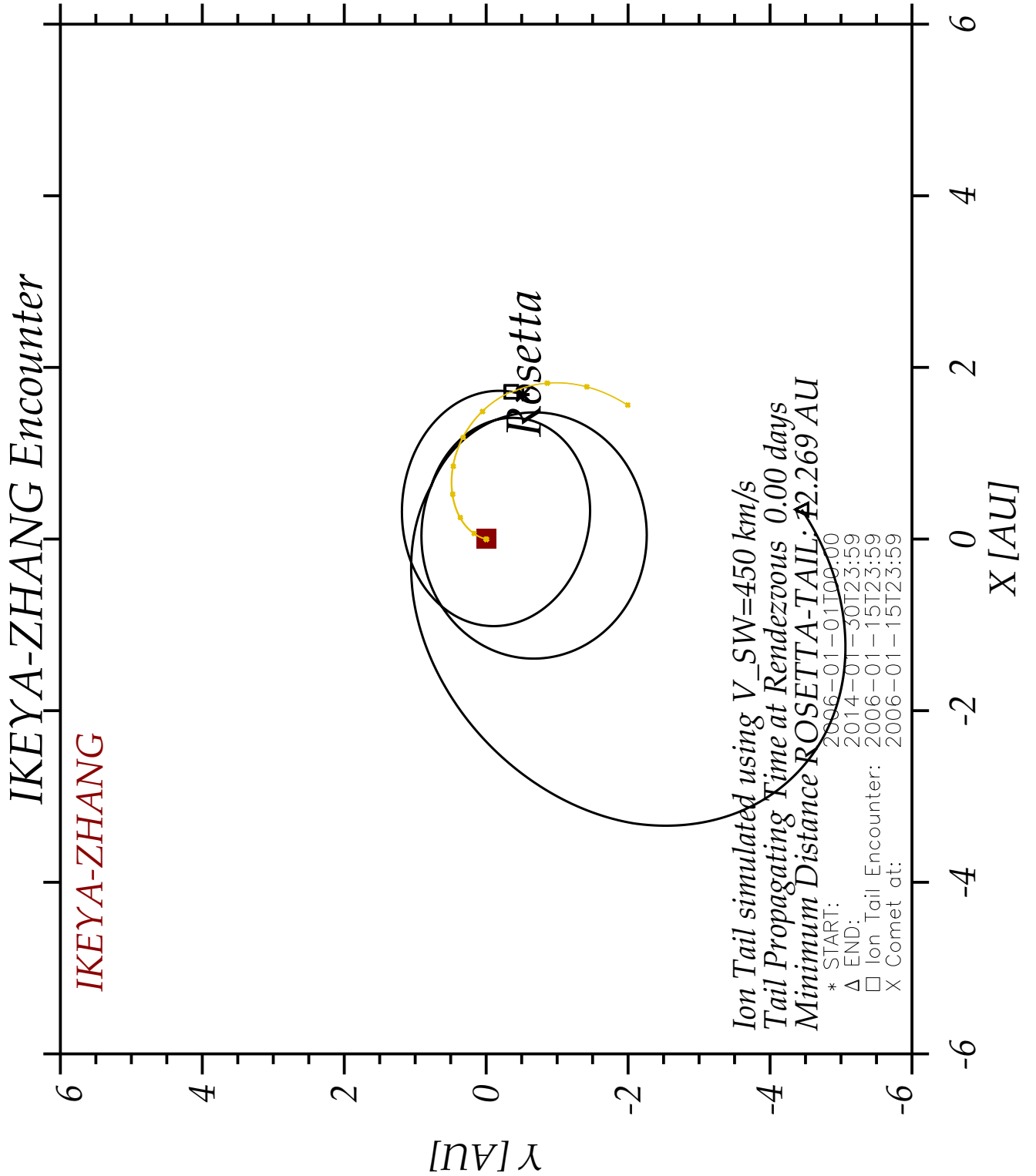


Figure 316: Overview: ROSETTA - IKEYA-ZHANG

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161 Comet 154P/BREWINGTON

Comet: 154P/BREWINGTON
No Encounter below 0.2000AU

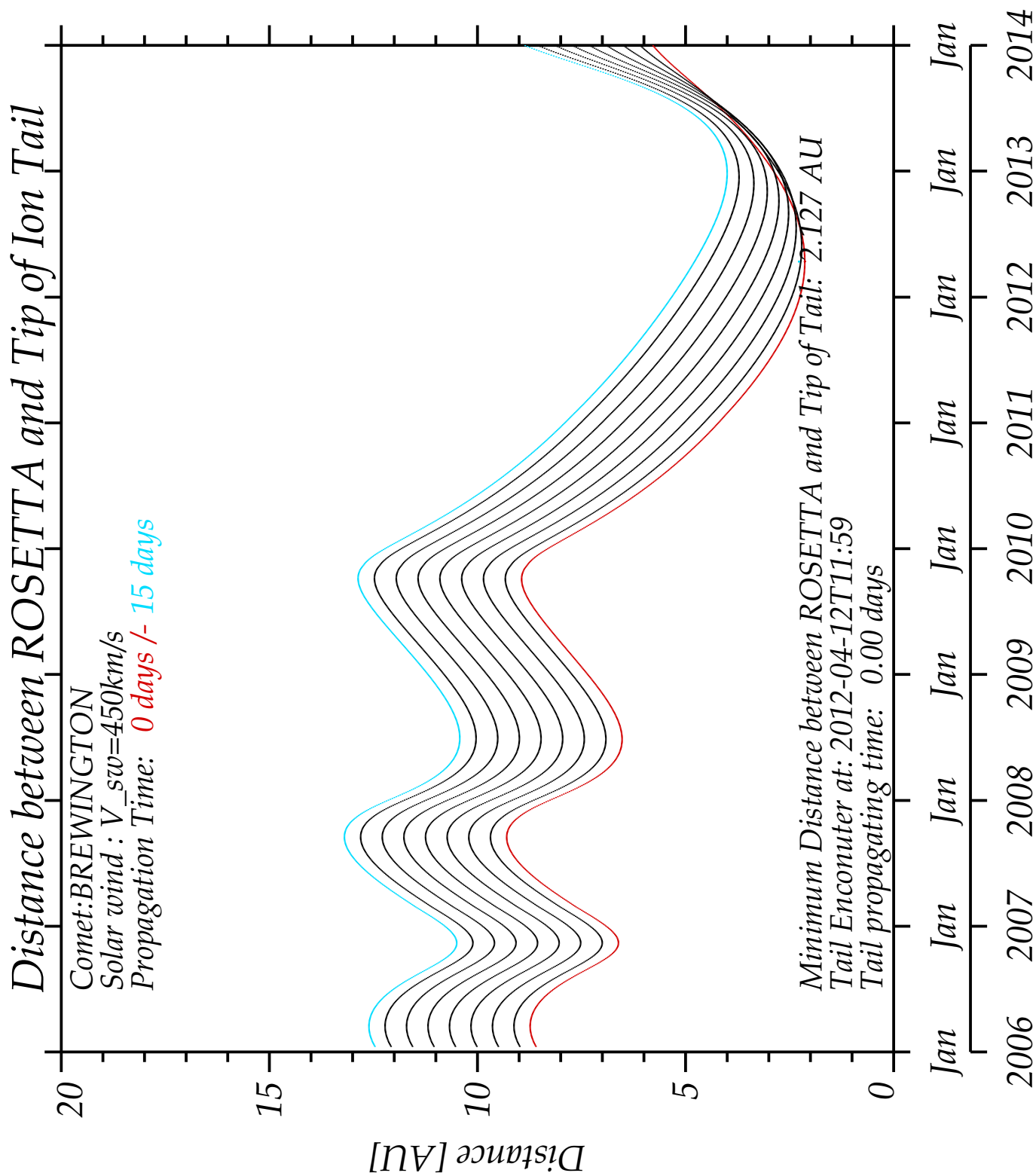


Figure 317: Minimum Distances: ROSETTA - BREWINGTON

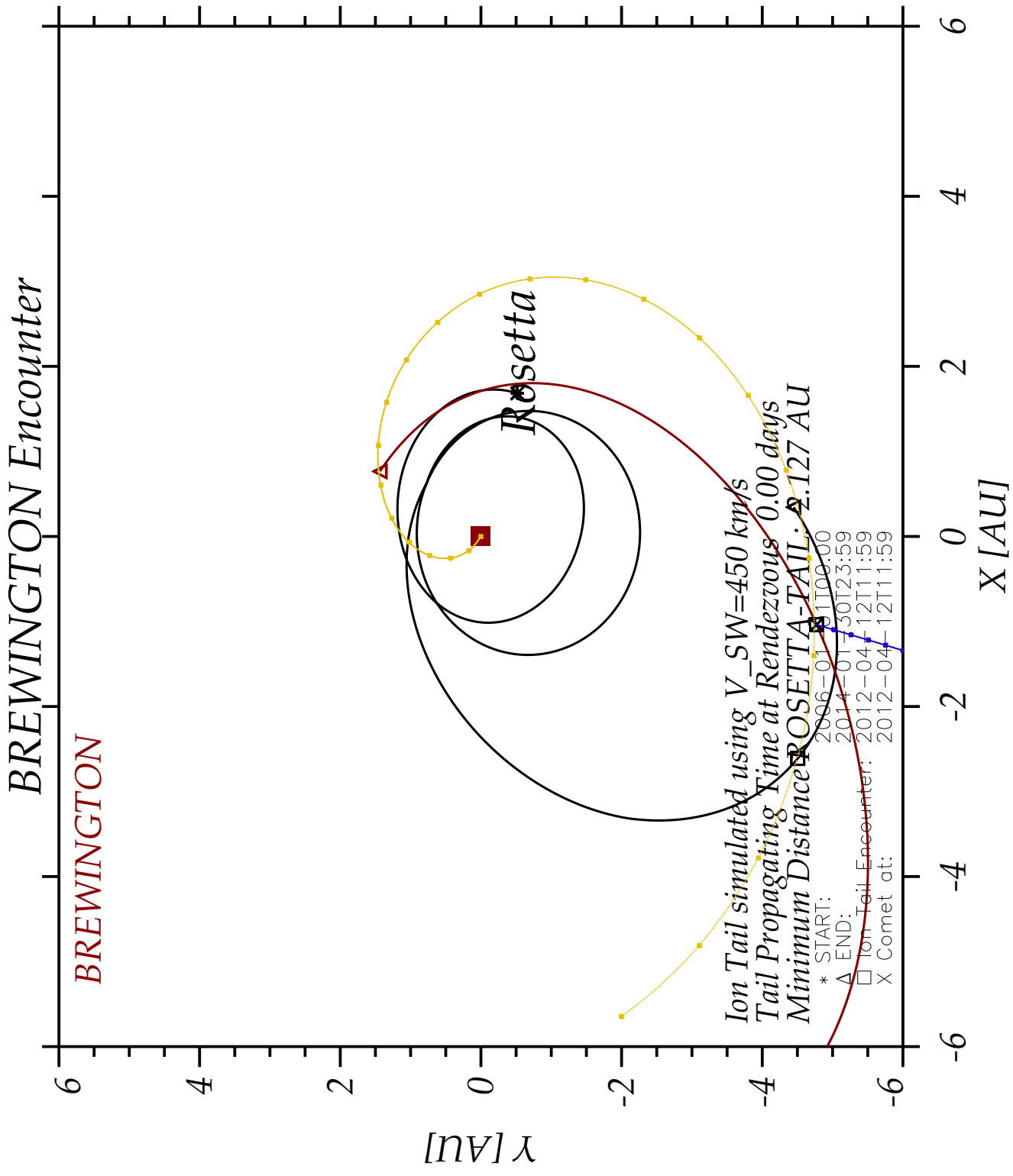


Figure 318: Overview: ROSETTA - BREWINGTON

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162 Comet 155P/SHOEMAKER 3

Comet: 155P/SHOEMAKER 3
No Encounter below 0.2000AU

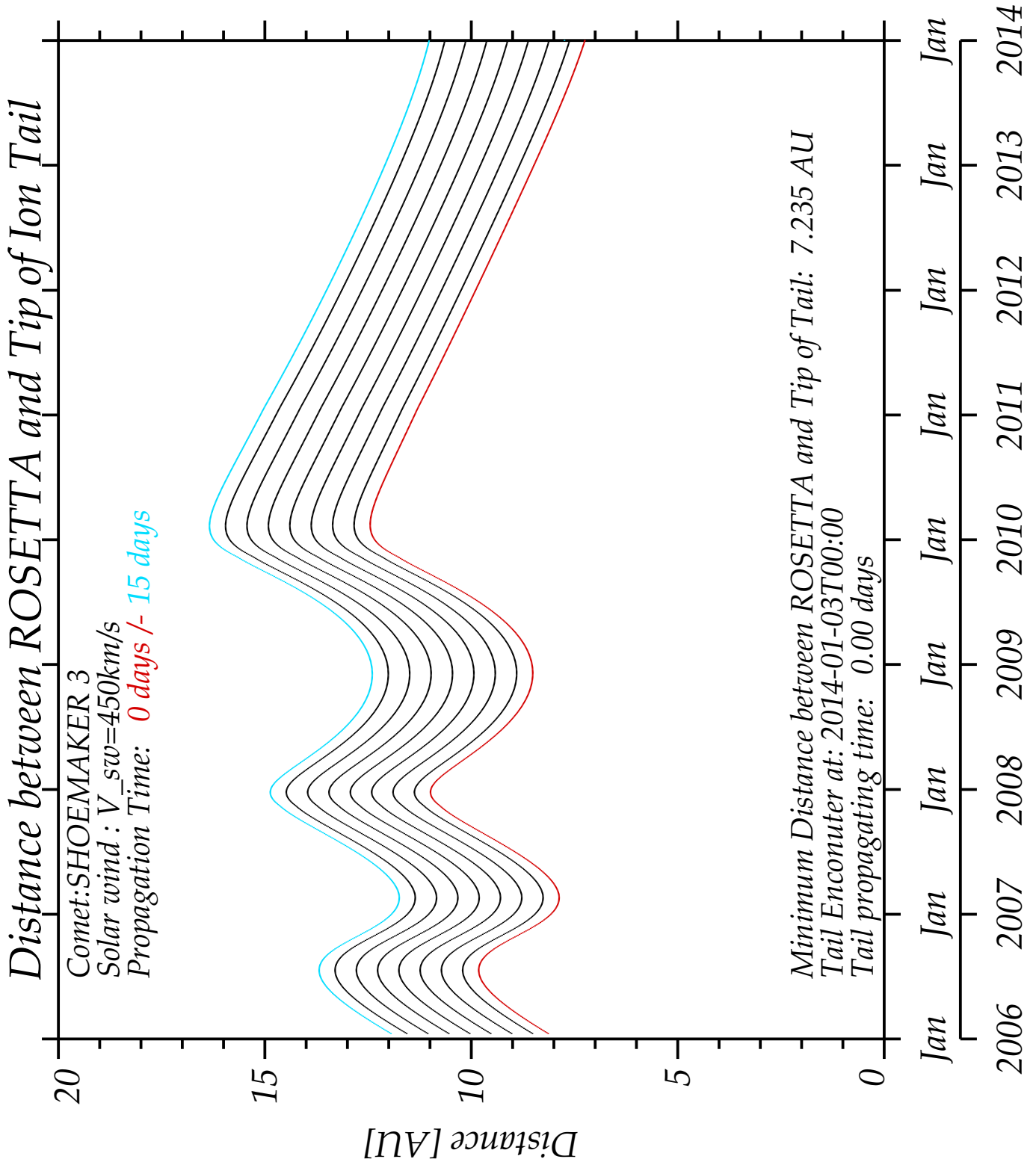


Figure 319: Minimum Distances: ROSETTA - SHOEMAKER 3

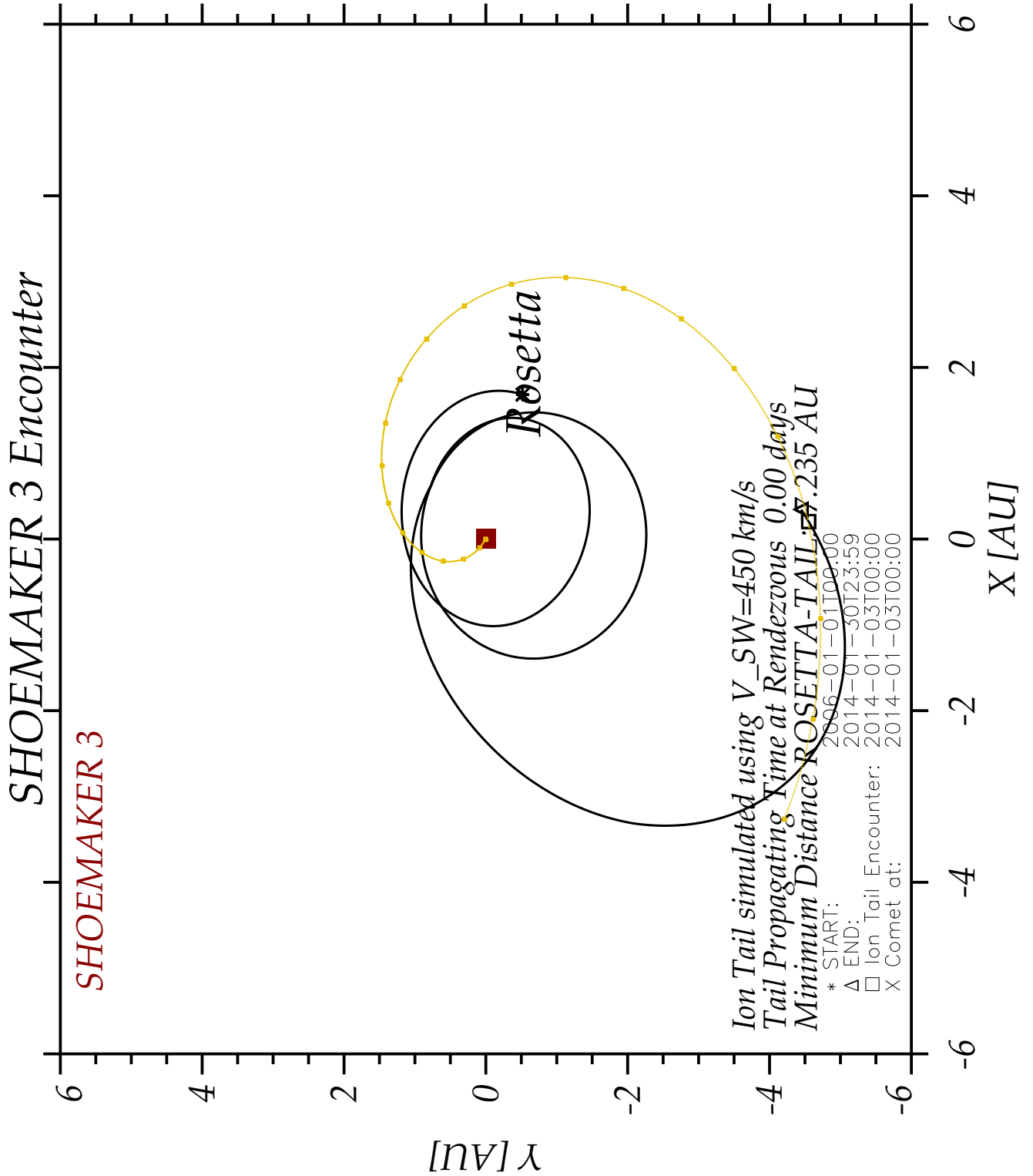


Figure 320: Overview: ROSETTA - SHOEMAKER 3

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163 Comet 156P/RUSSELL-LINEAR

Comet: 156P/RUSSELL-LINEAR
No Encounter below 0.2000AU

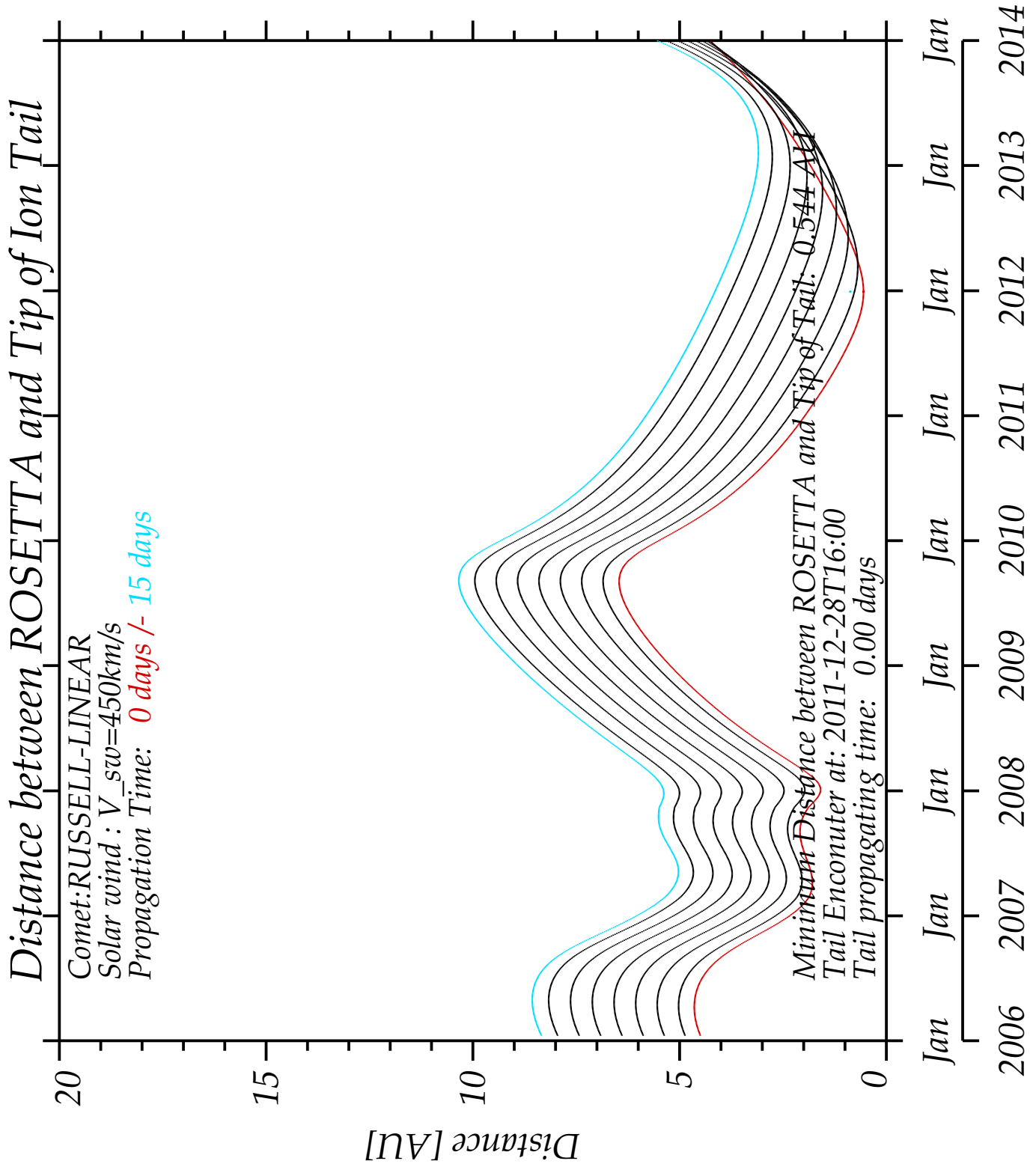


Figure 321: Minimum Distances: ROSETTA - RUSSELL-LINEAR

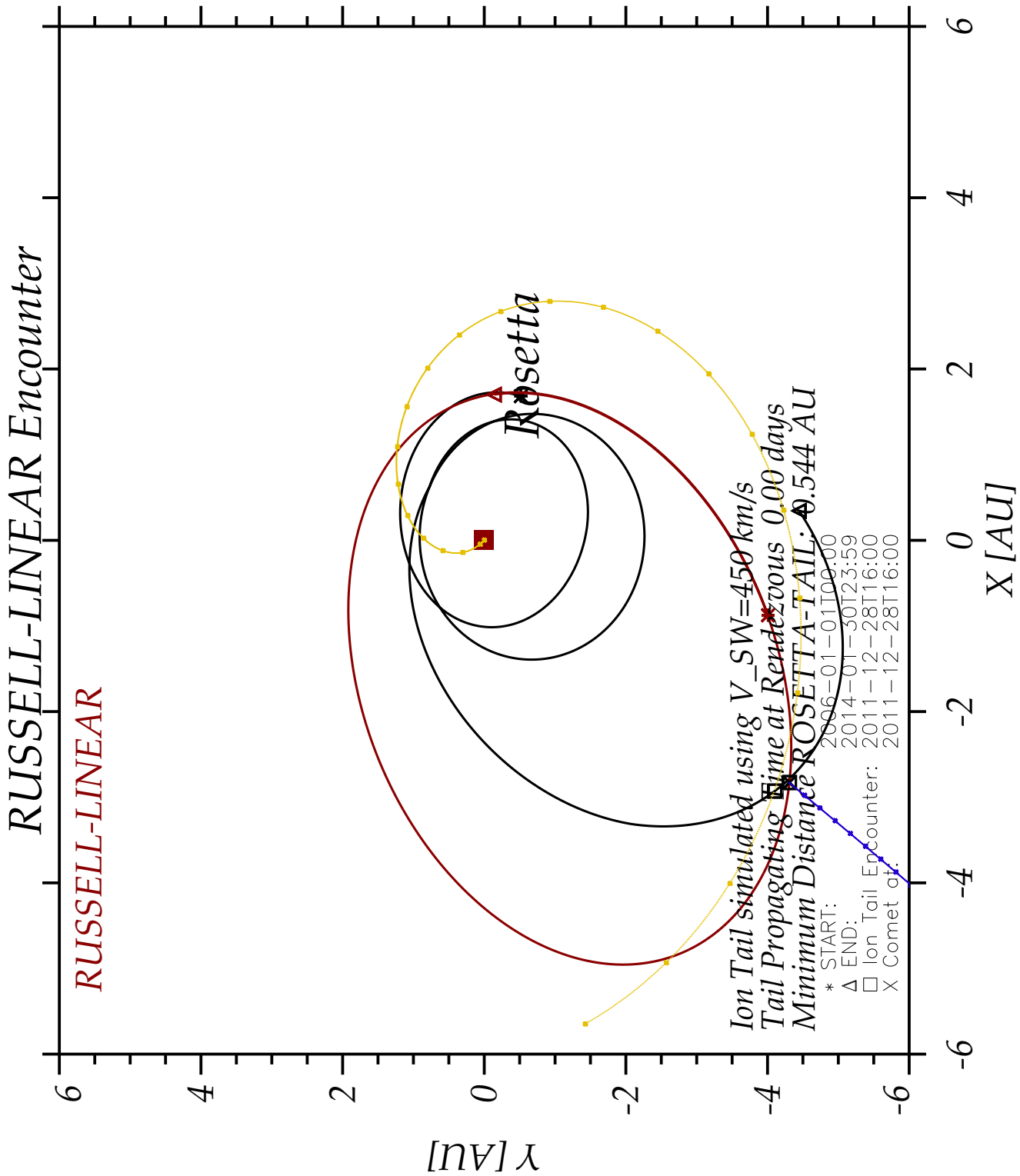


Figure 322: Overview: ROSETTA - RUSSELL-LINEAR

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164 Comet 157P/TRITTON

Comet: 157P/TRITTON
No Encounter below 0.2000AU

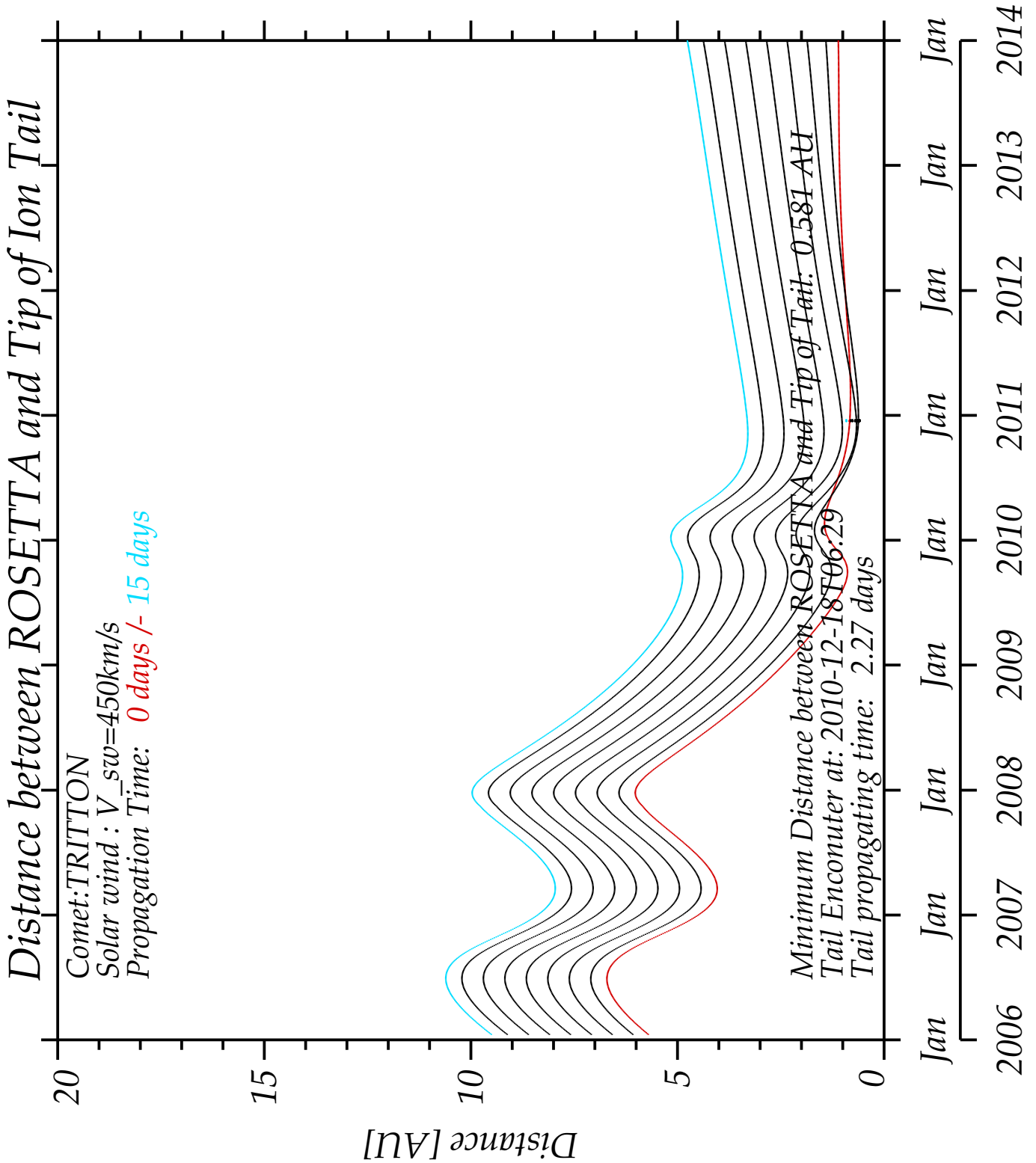


Figure 323: Minimum Distances: ROSETTA - TRITTON

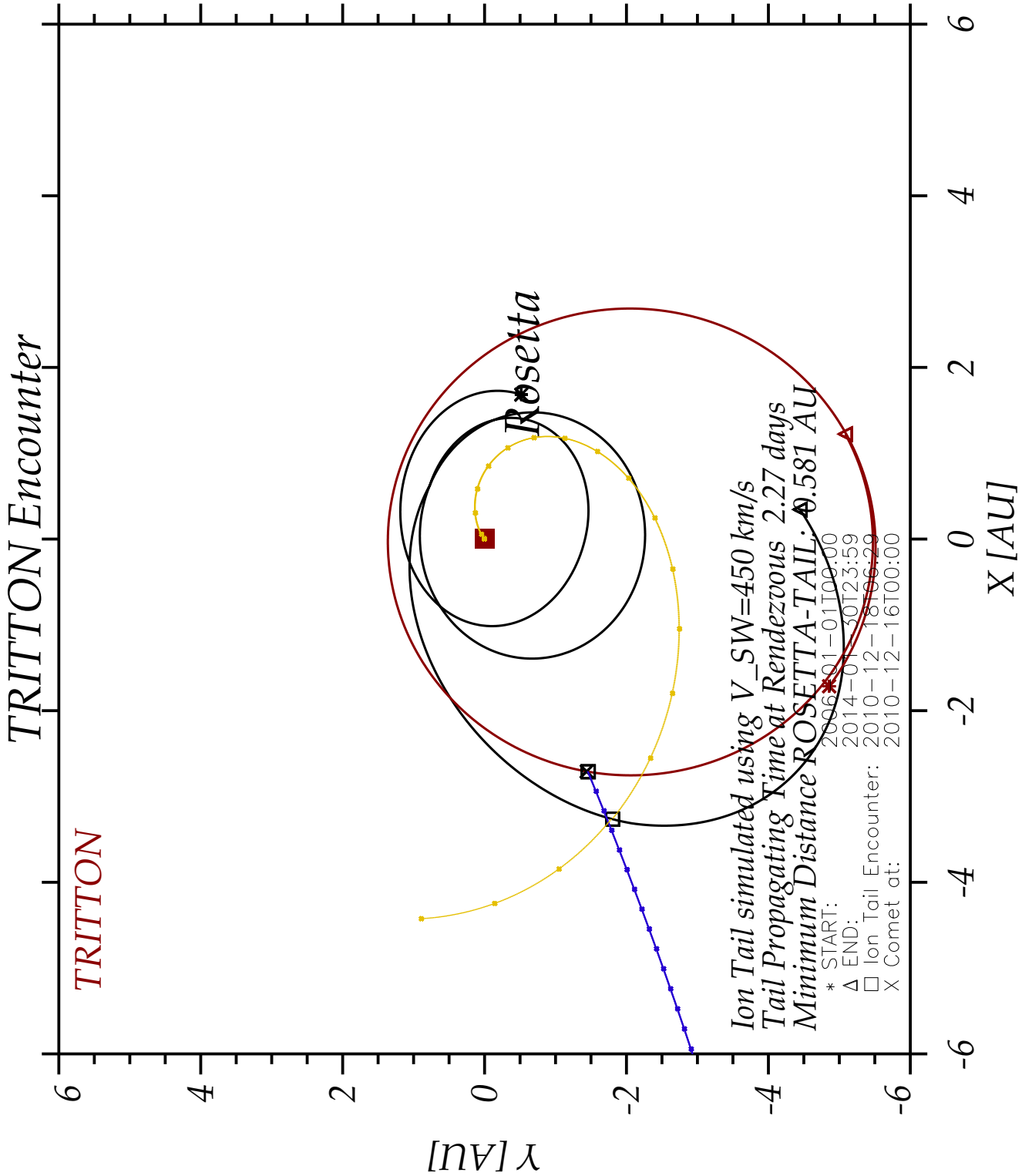


Figure 324: Overview: ROSETTA - TRITTON

<p style="text-align: center;">R O S E T T A</p>	<p>Document: RO-IGEP-TR-0020 Issue: 1 Revision: 2 Date: 2006-10-25 Page: 488</p>
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165 Comet 158P/KOWAL-LINEAR

<p>Comet: 158P/KOWAL-LINEAR</p>
<p>No Encounter below 0.2000AU</p>

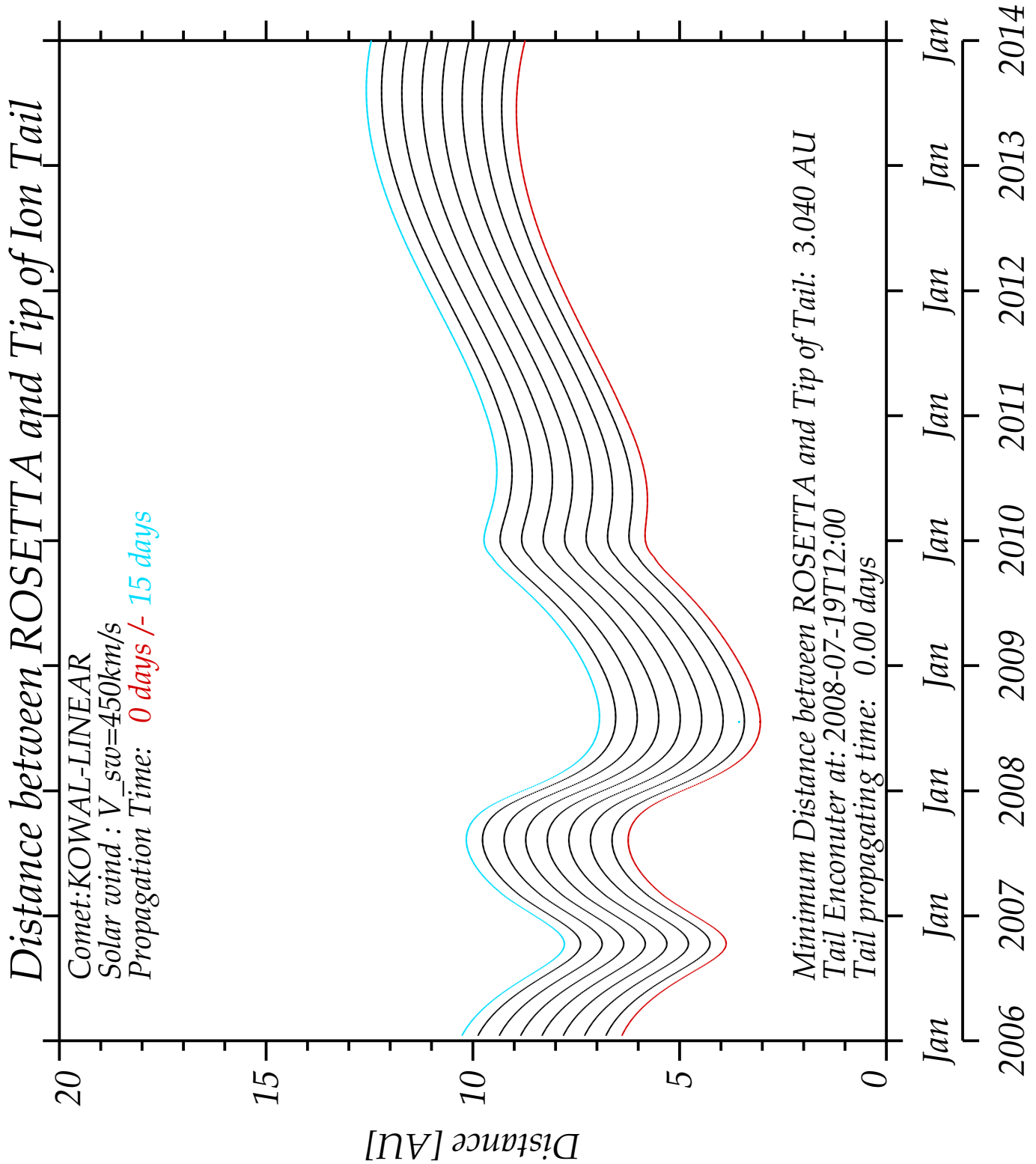


Figure 325: Minimum Distances: ROSETTA - KOWAL-LINEAR

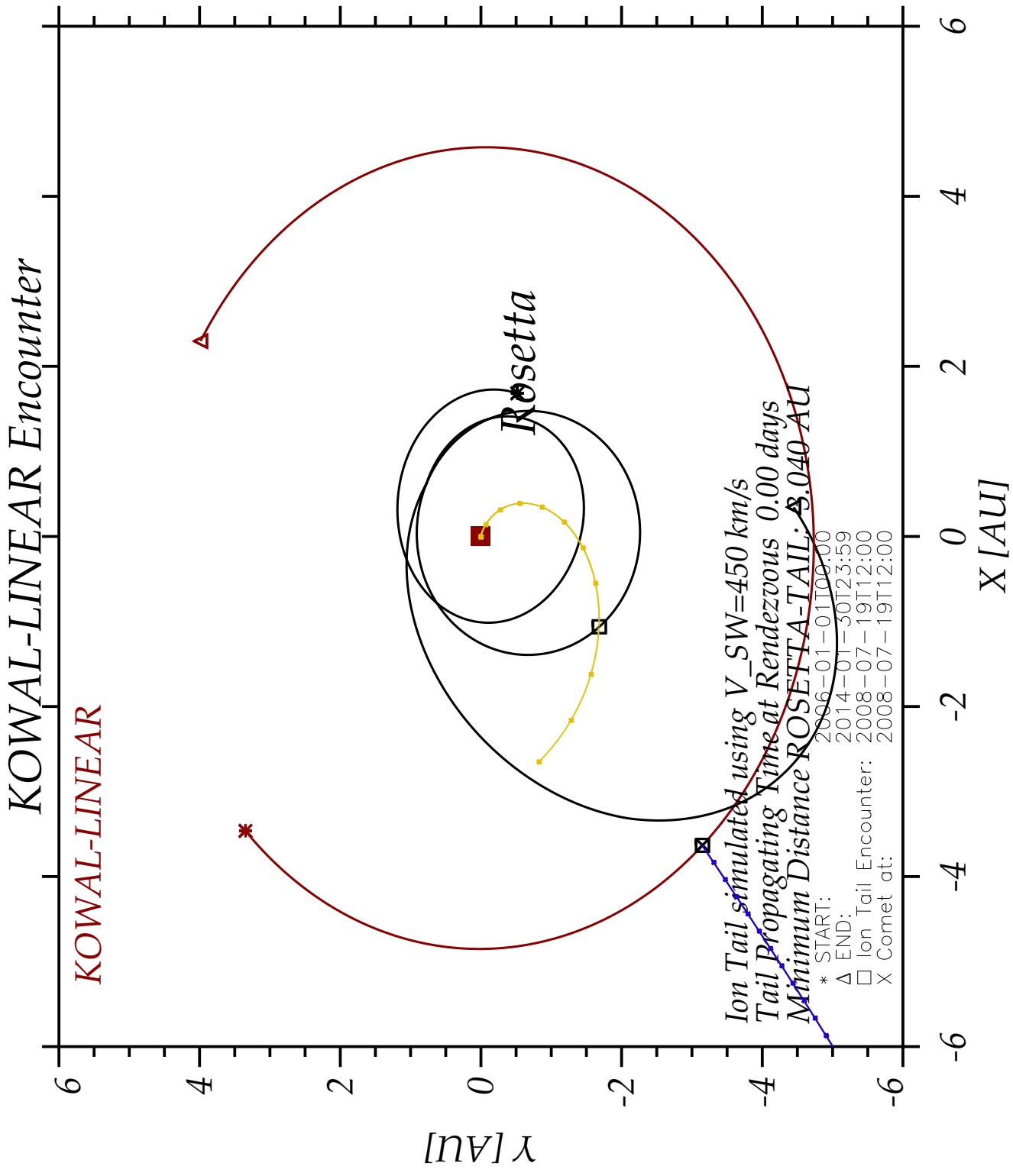


Figure 326: Overview: ROSETTA - KOWAL-LINEAR

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166 Comet 159P/LONEOS 159

Comet: 159P/LONEOS 159
No Encounter below 0.2000AU

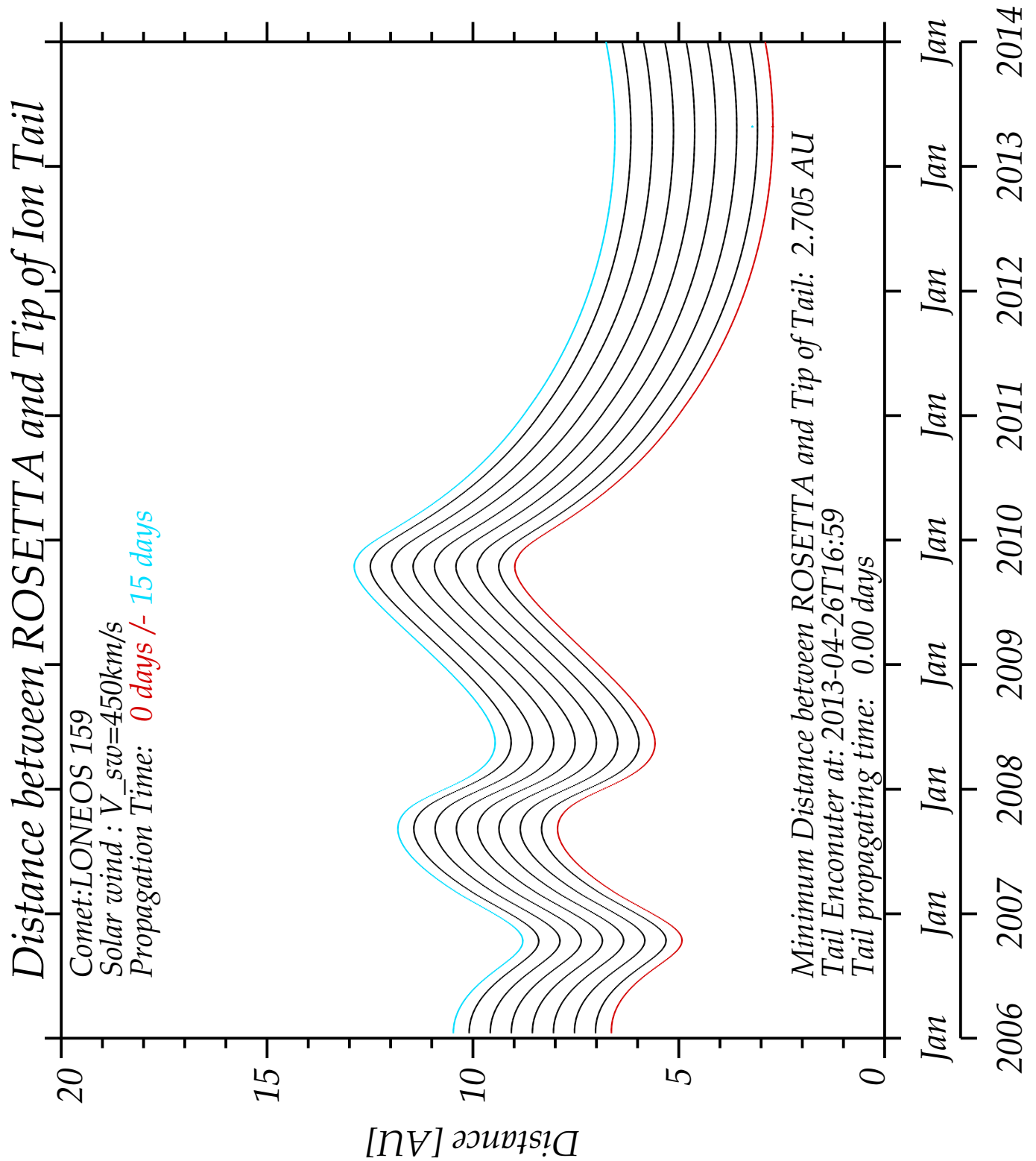


Figure 327: Minimum Distances: ROSETTA - LONEOS 159

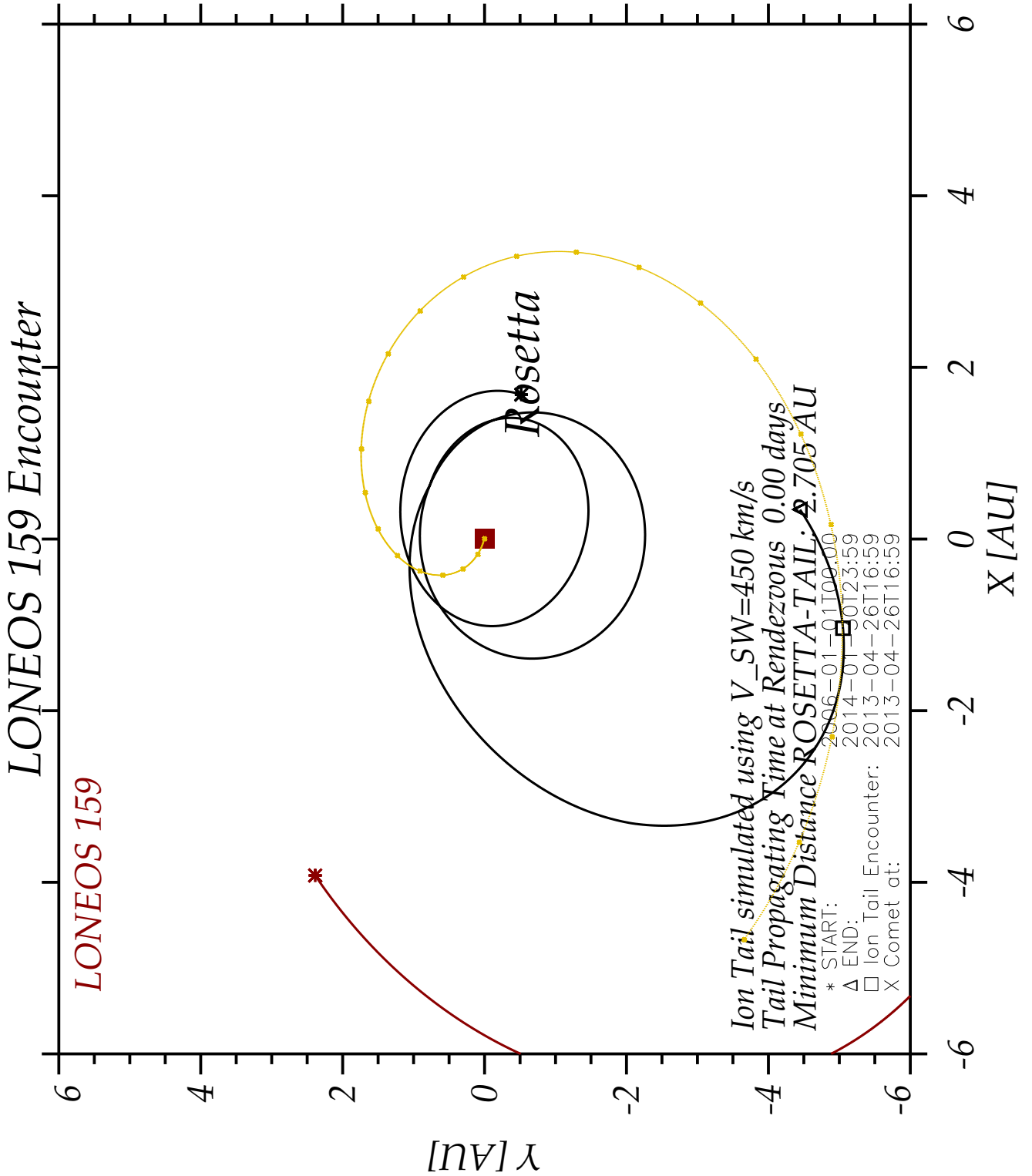


Figure 328: Overview: ROSETTA - LONEOS 159

<p style="text-align: center;">R O S E T T A</p>	<p>Document: RO-IGEP-TR-0020 Issue: 1 Revision: 2 Date: 2006-10-25 Page: 494</p>
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167 Comet 160P/LINEAR 160

<p>Comet: 160P/LINEAR 160</p>
<p>No Encounter below 0.2000AU</p>

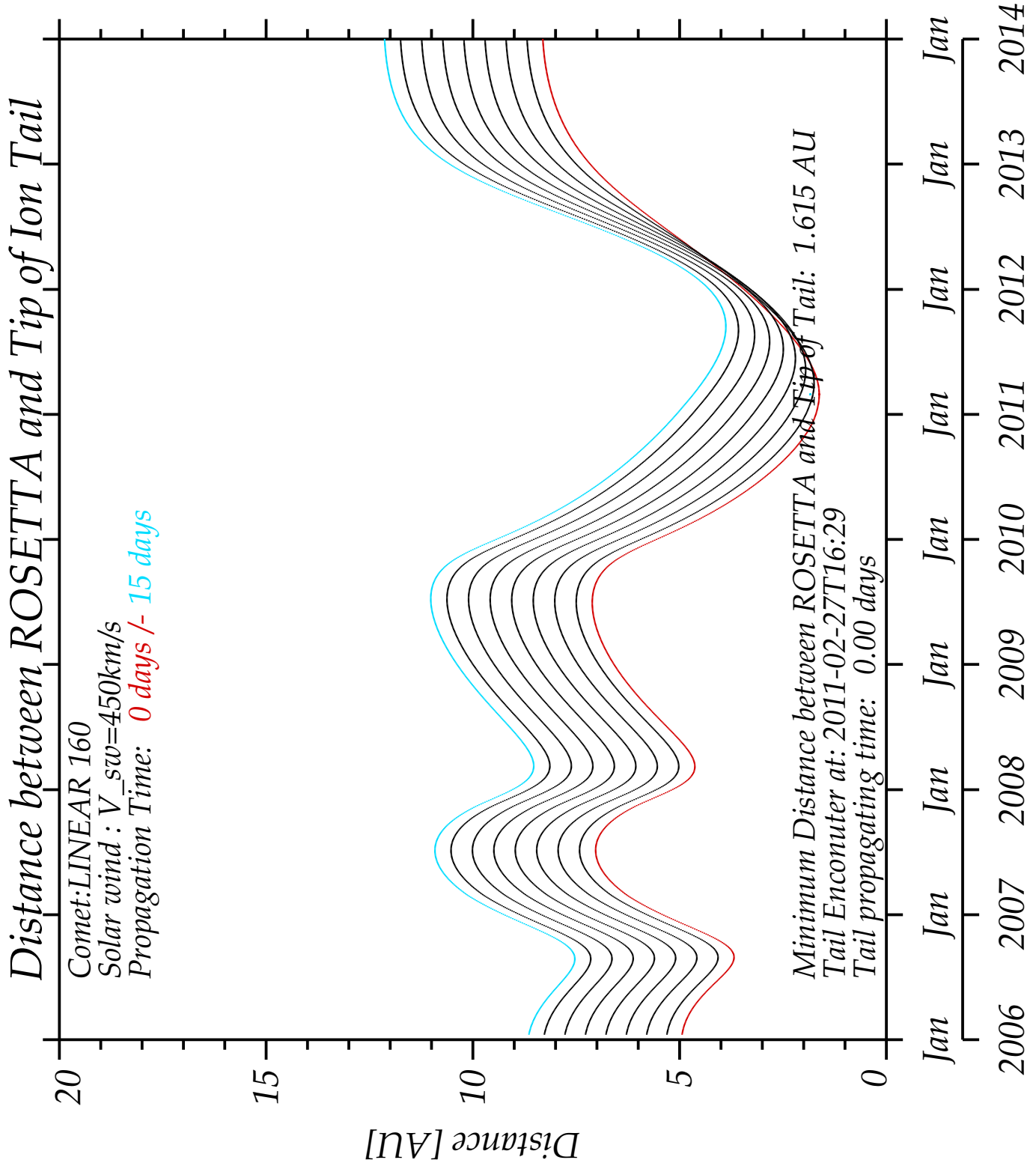


Figure 329: Minimum Distances: ROSETTA - LINEAR 160

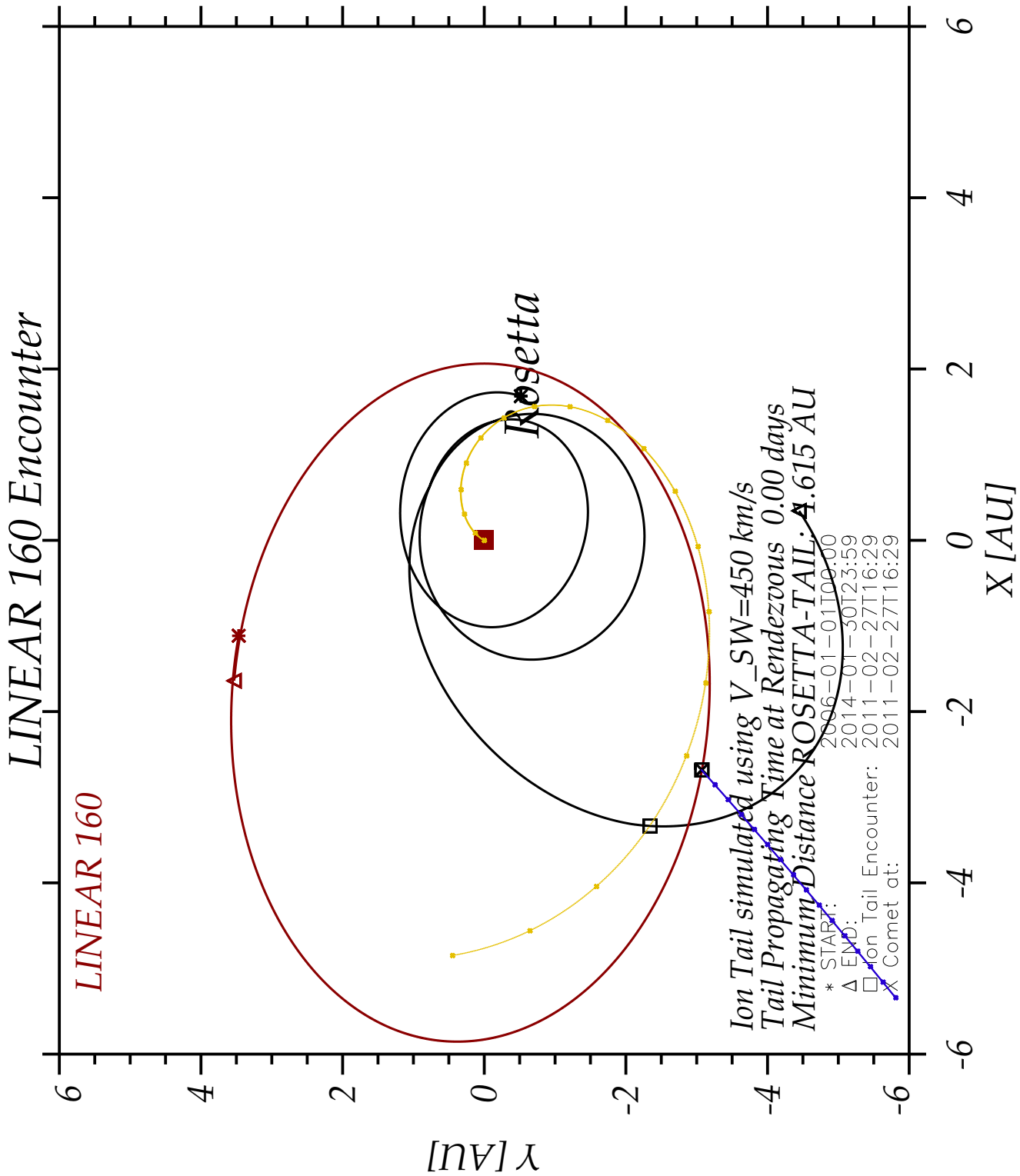


Figure 330: Overview: ROSETTA - LINEAR 160

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168 Comet 161P/HARTLEY-IRAS

Comet: 161P/HARTLEY-IRAS
No Encounter below 0.2000AU

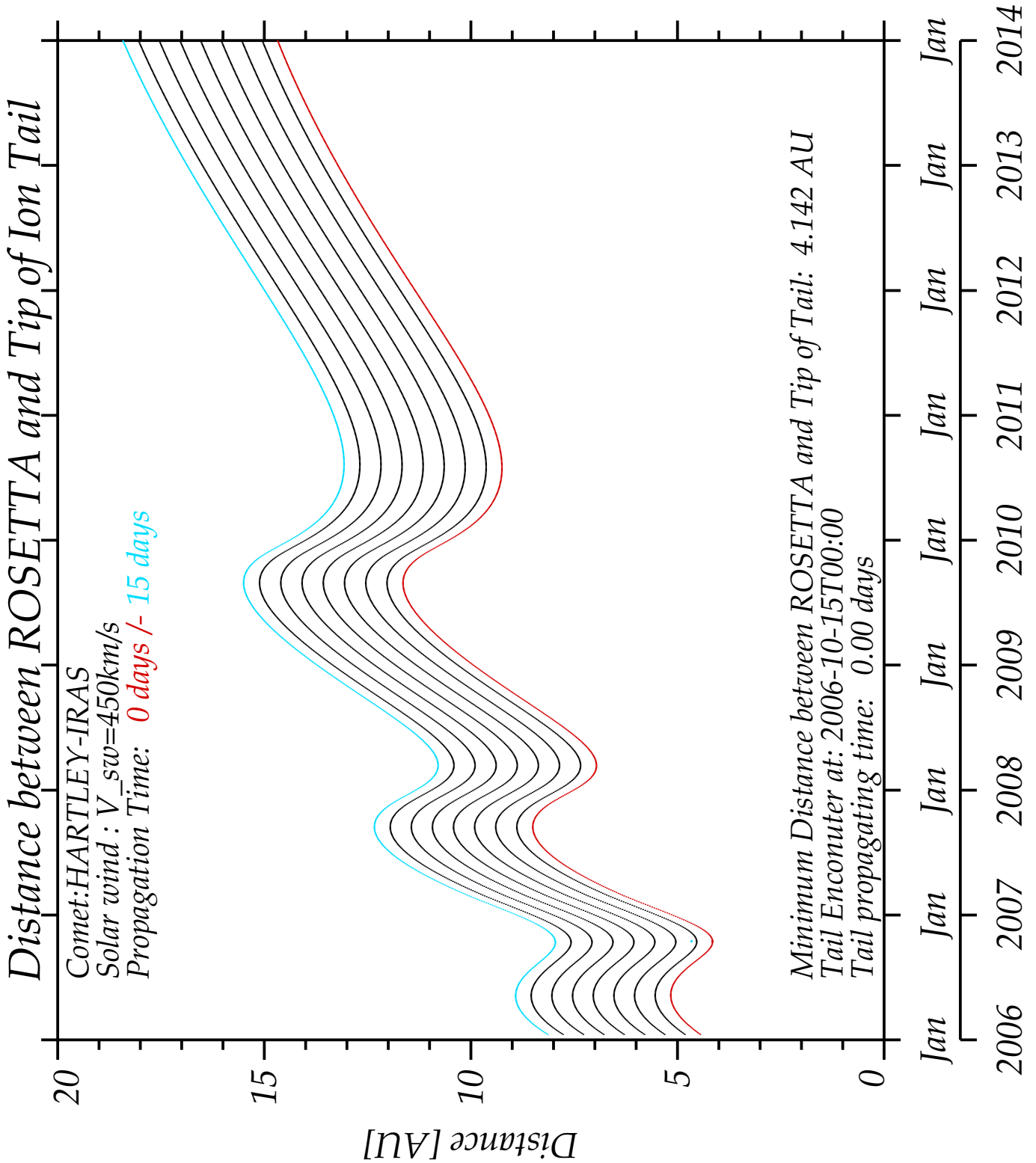


Figure 331: Minimum Distances: ROSETTA - HARTLEY-IRAS

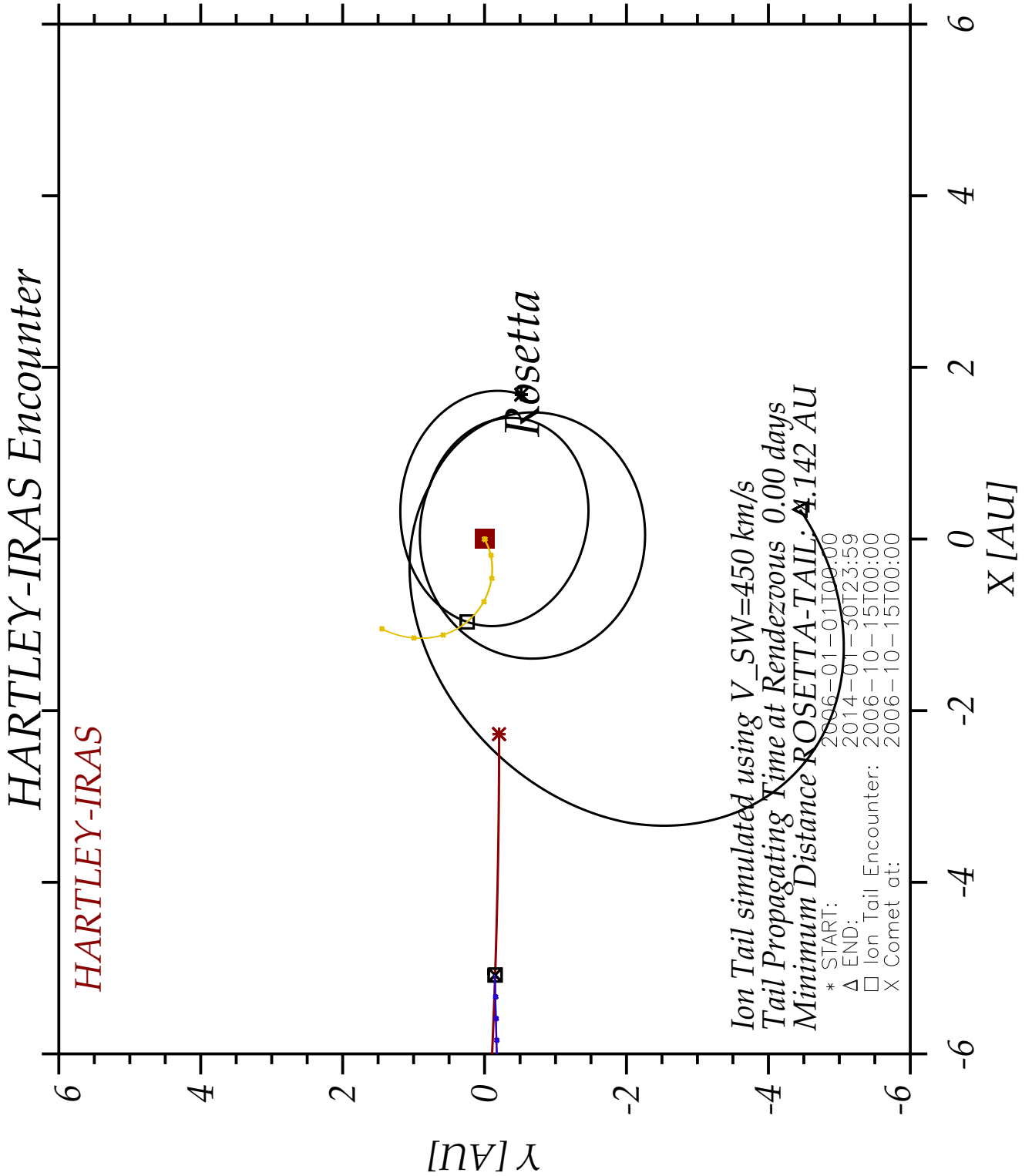


Figure 332: Overview: ROSETTA - HARTLEY-IRAS

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169 Comet 162P/SIDING-SPRING

Comet: 162P/SIDING-SPRING
No Encounter below 0.2000AU

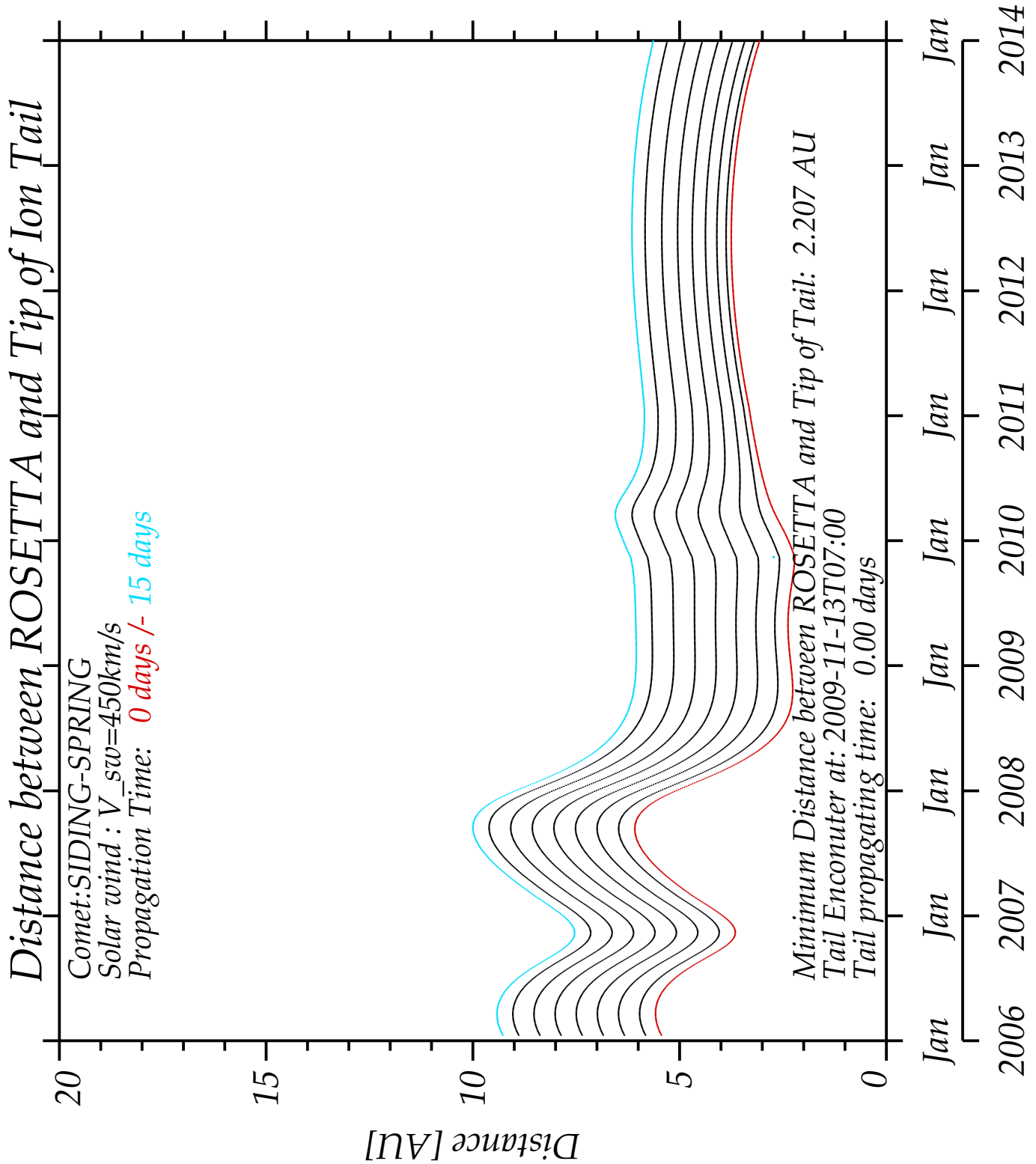


Figure 333: Minimum Distances: ROSETTA - SIDING-SPRING

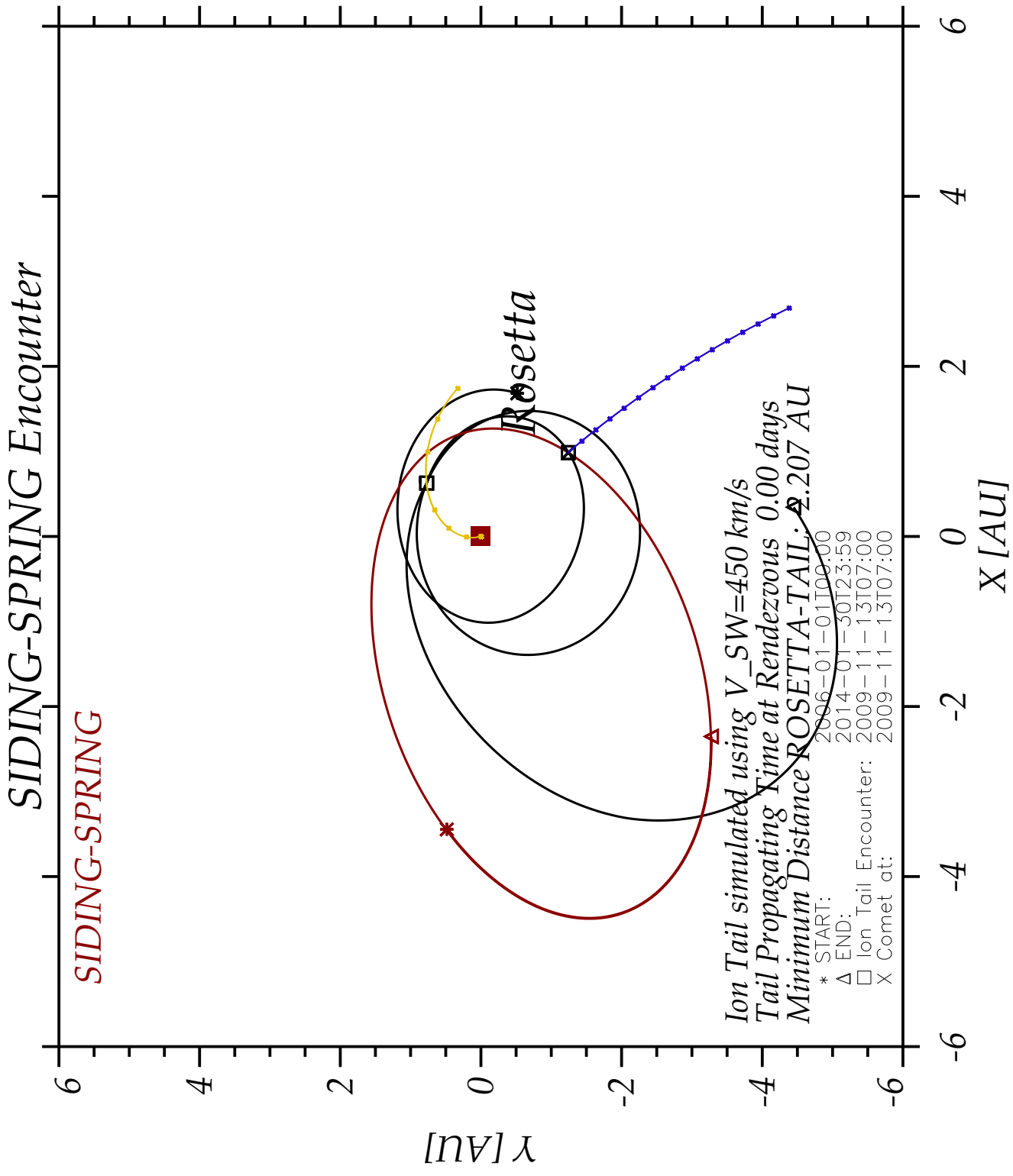


Figure 334: Overview: ROSETTA - SIDING-SPRING

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170 Comet 163P/NEAT 163

Comet: 163P/NEAT 163
No Encounter below 0.2000AU

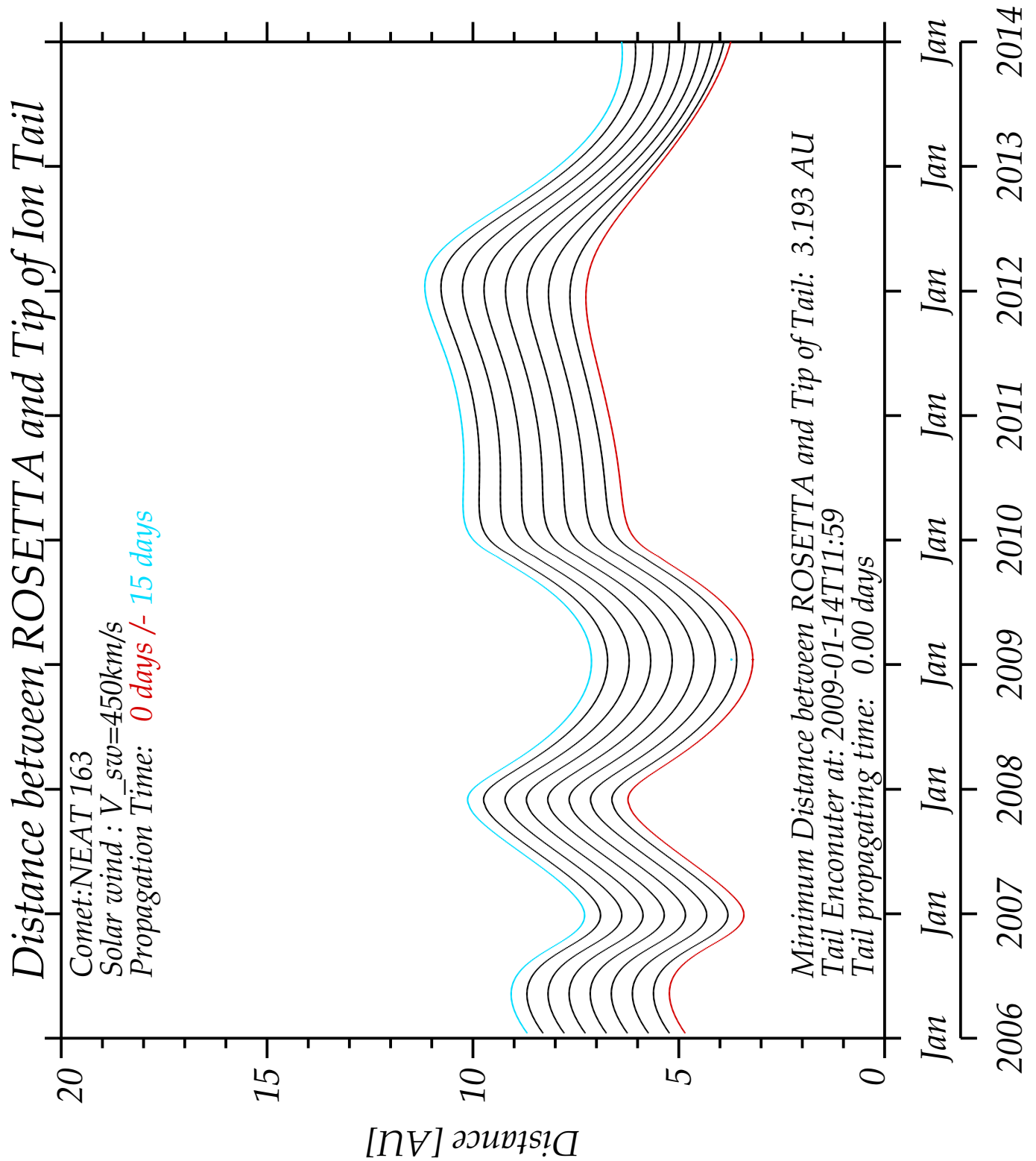


Figure 335: Minimum Distances: ROSETTA - NEAT 163

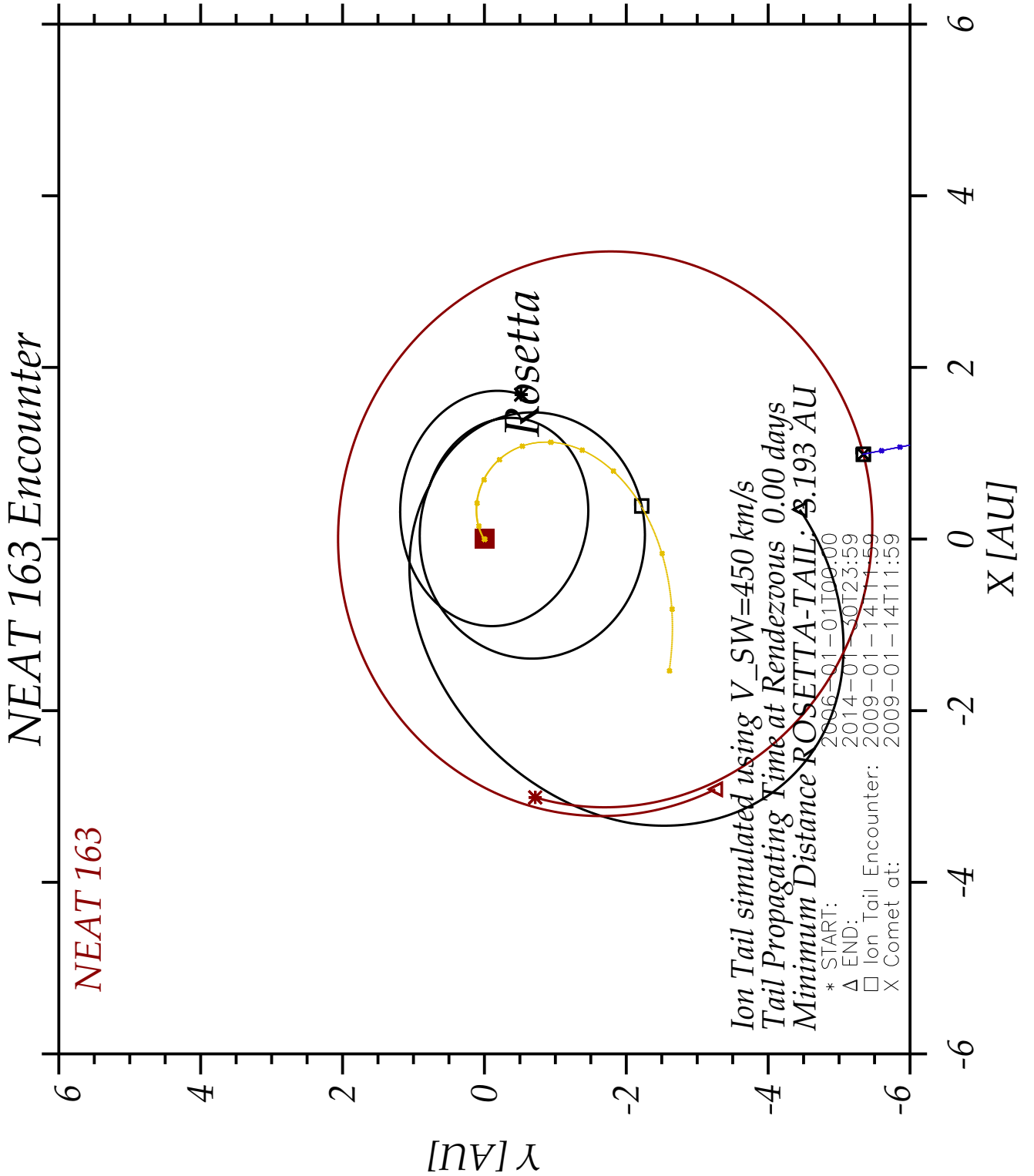


Figure 336: Overview: ROSETTA - NEAT 163

<p style="text-align: center;">R O S E T T A</p>	<p>Document: RO-IGEP-TR-0020 Issue: 1 Revision: 2 Date: 2006-10-25 Page: 506</p>
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171 Comet 164P/CHRISTENSEN 164

<p>Comet: 164P/CHRISTENSEN 164</p>
<p>No Encounter below 0.2000AU</p>

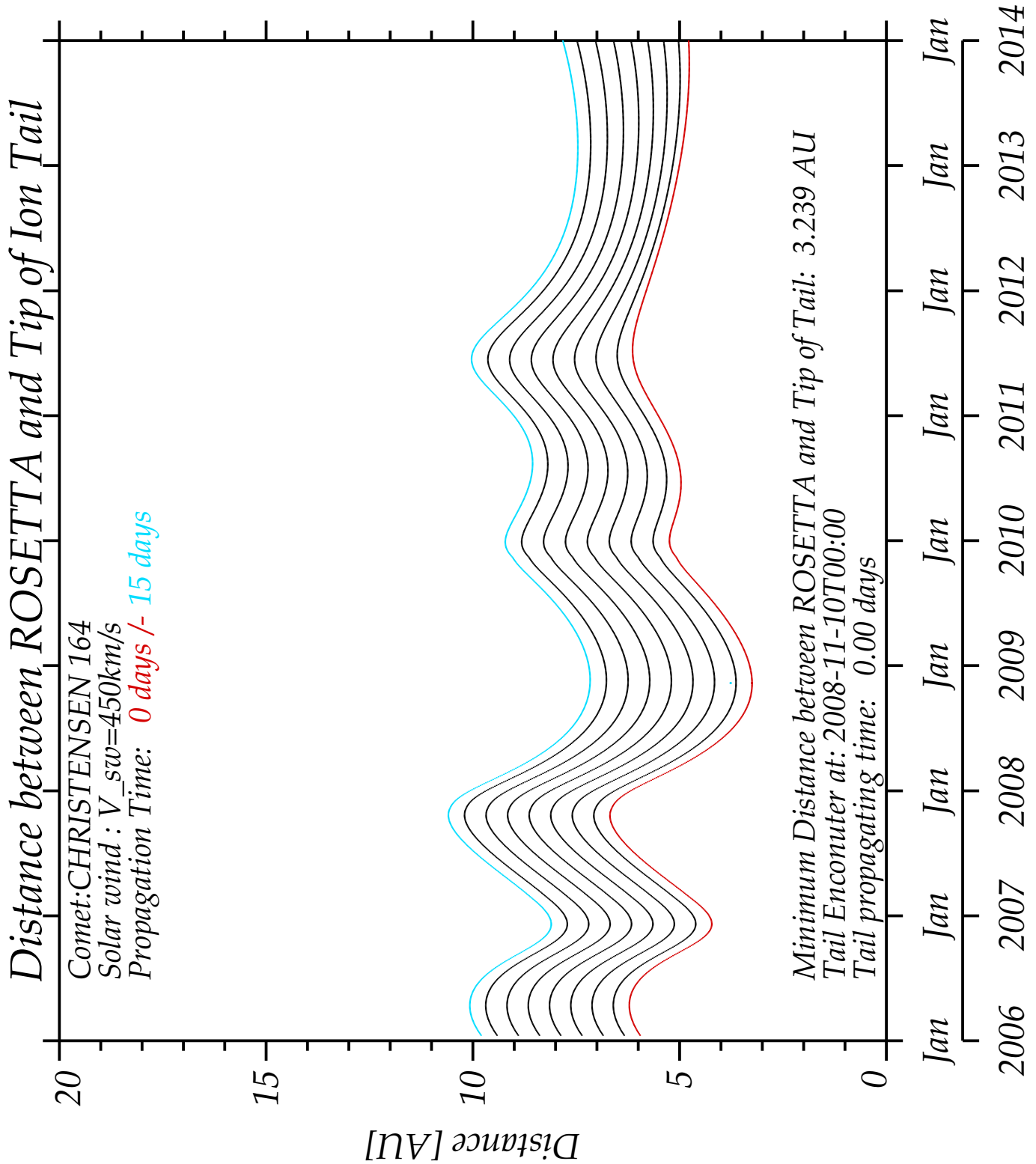


Figure 337: Minimum Distances: ROSETTA - CHRISTENSEN 164

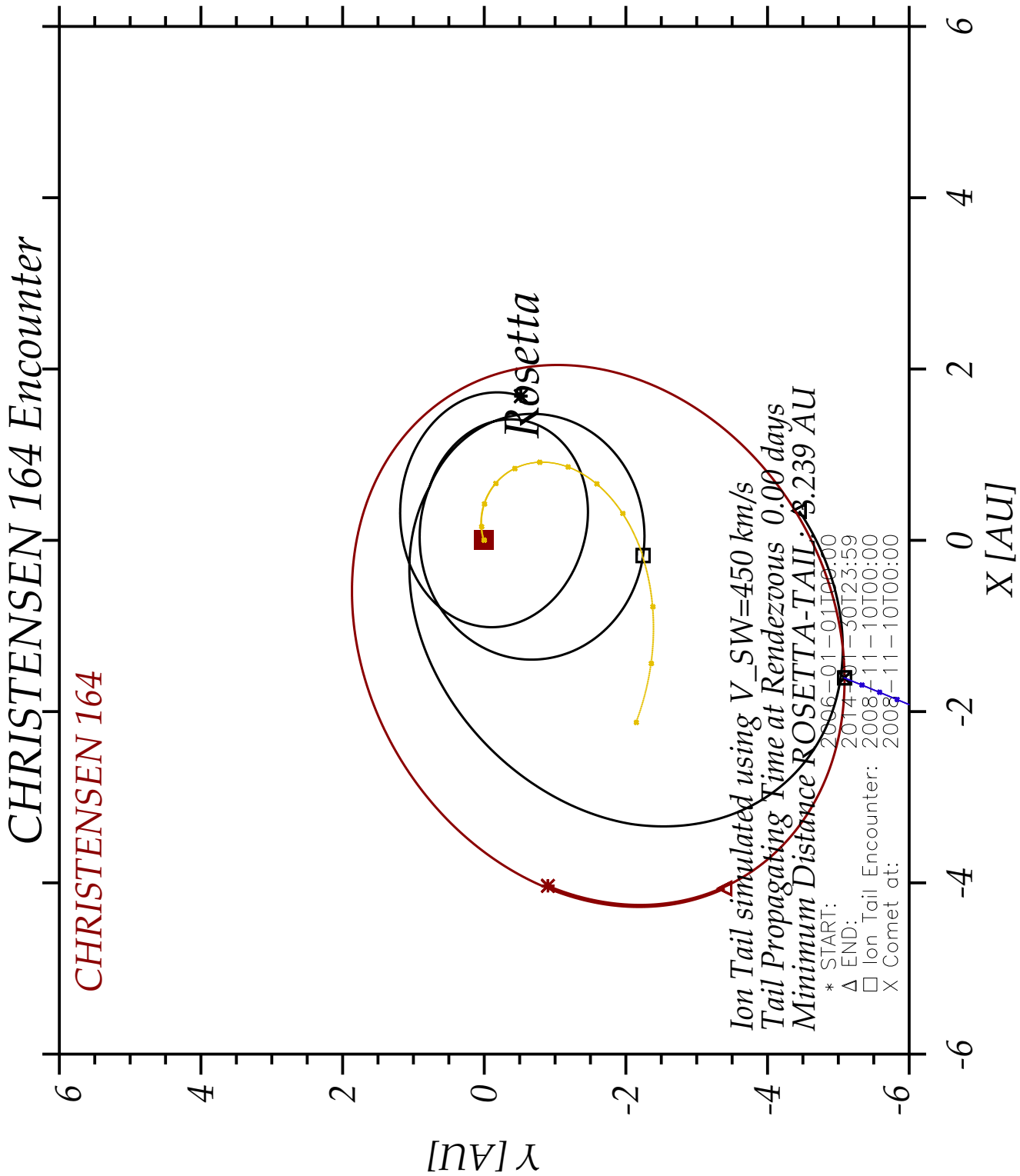


Figure 338: Overview: ROSETTA - CHRISTENSEN 164

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172 Comet 165P/LINEAR 165

Comet: 165P/LINEAR 165
No Encounter below 0.2000AU

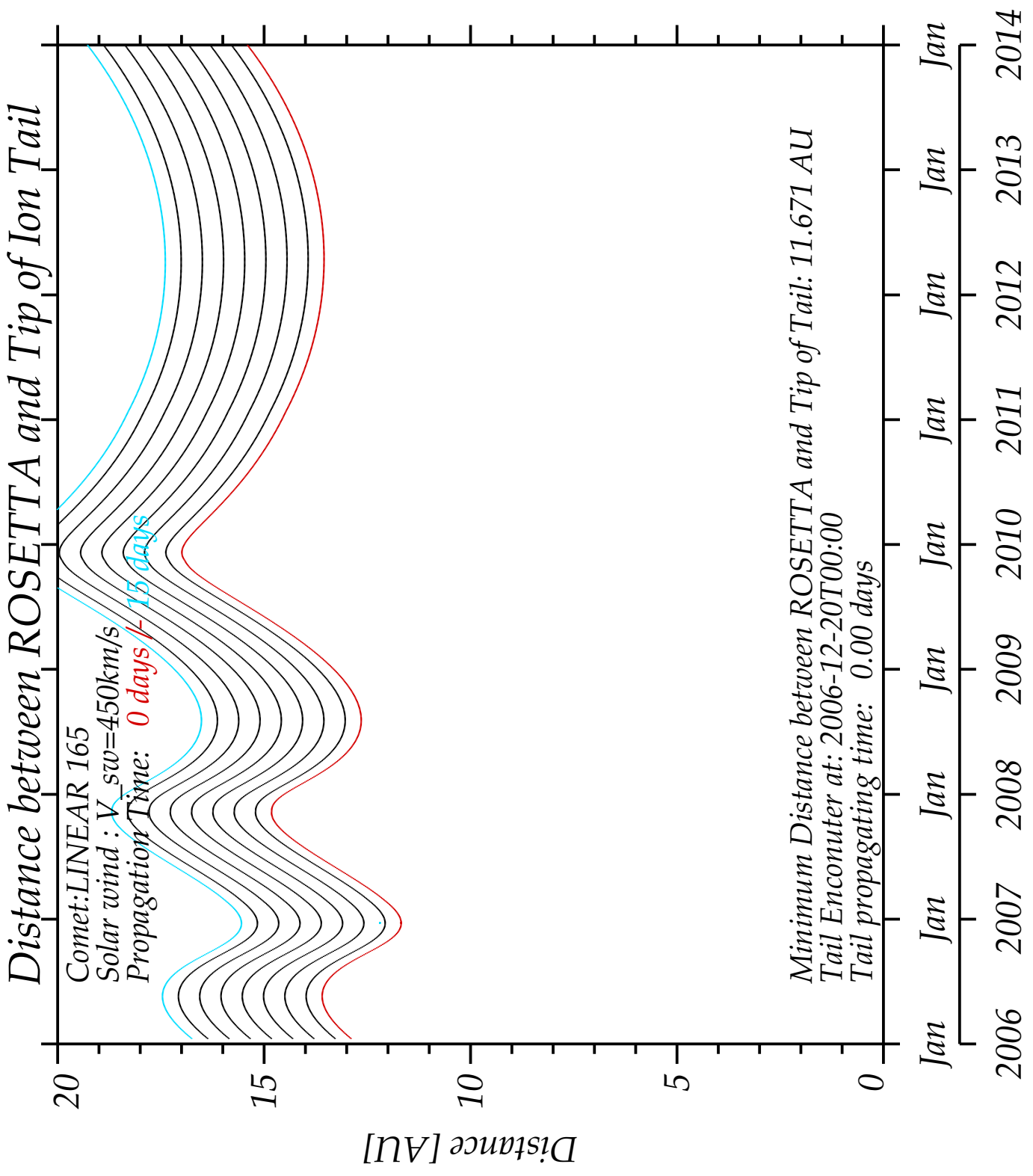


Figure 339: Minimum Distances: ROSETTA - LINEAR 165

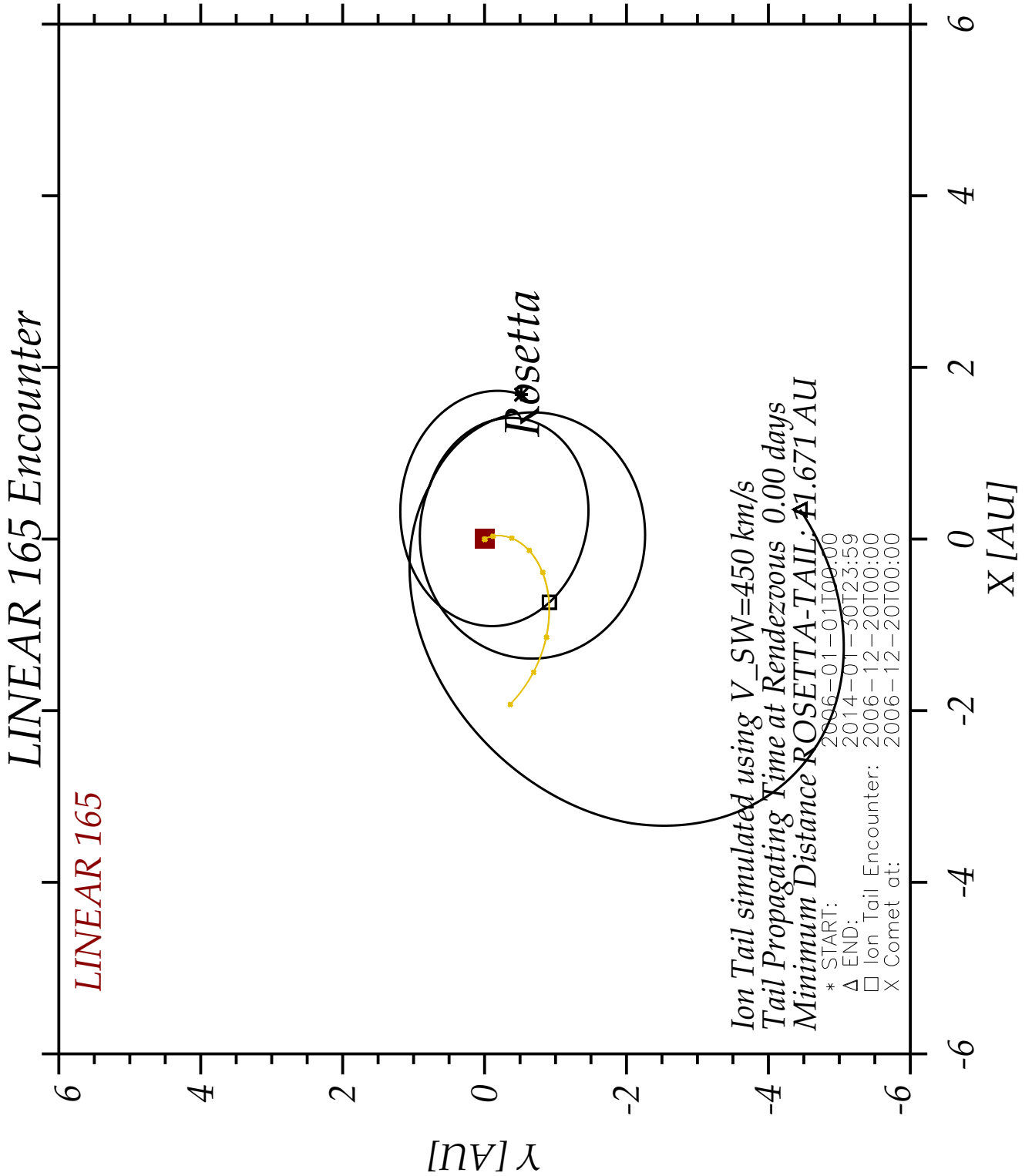


Figure 340: Overview: ROSETTA - LINEAR 165

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173 Comet 166P/NEAT 166

Comet: 166P/NEAT 166
No Encounter below 0.2000AU

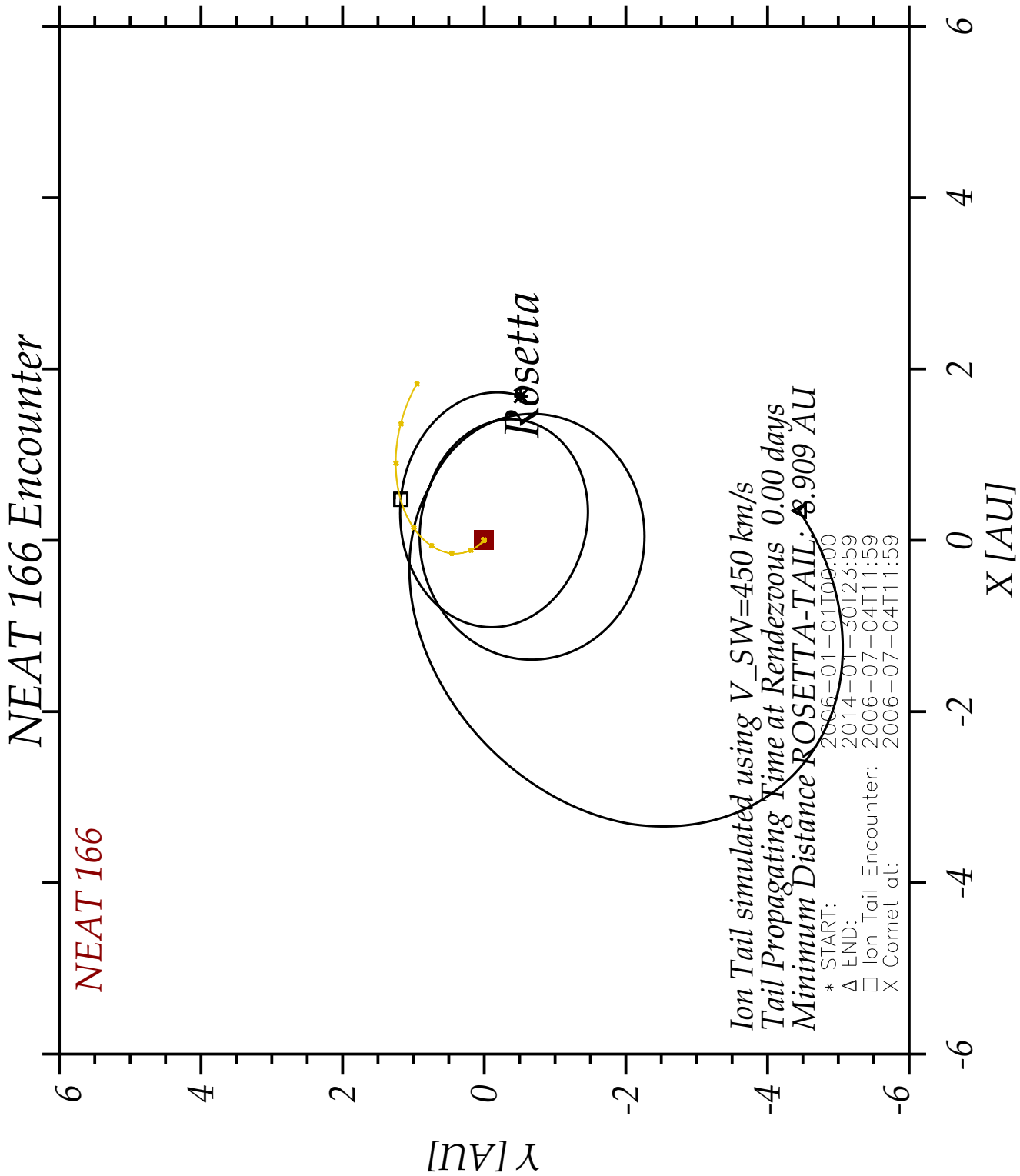


Figure 342: Overview: ROSETTA - NEAT 166

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174 Comet 167P/CINEOS

Comet: 167P/CINEOS
No Encounter below 0.2000AU

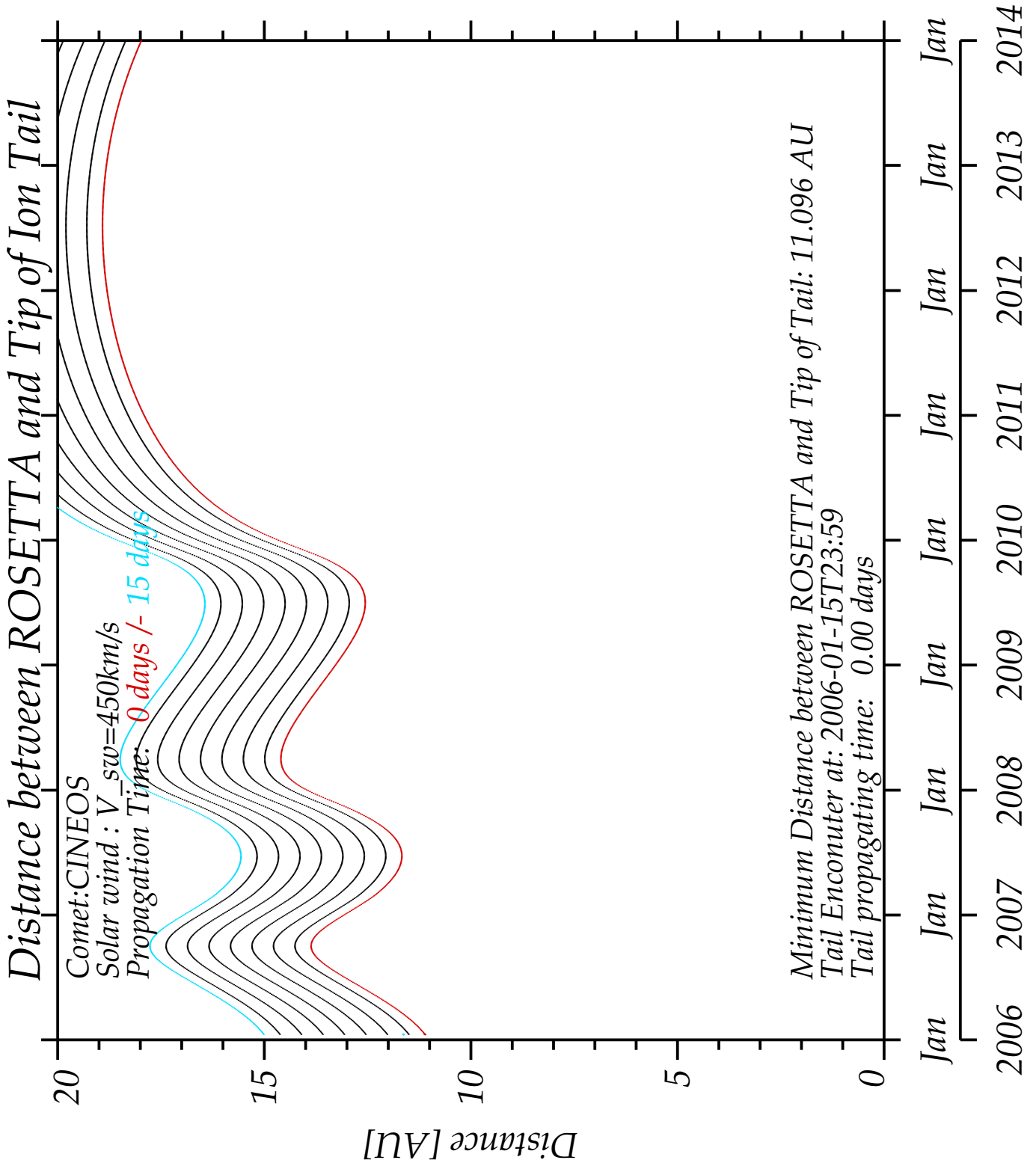


Figure 343: Minimum Distances: ROSETTA - CINEOS

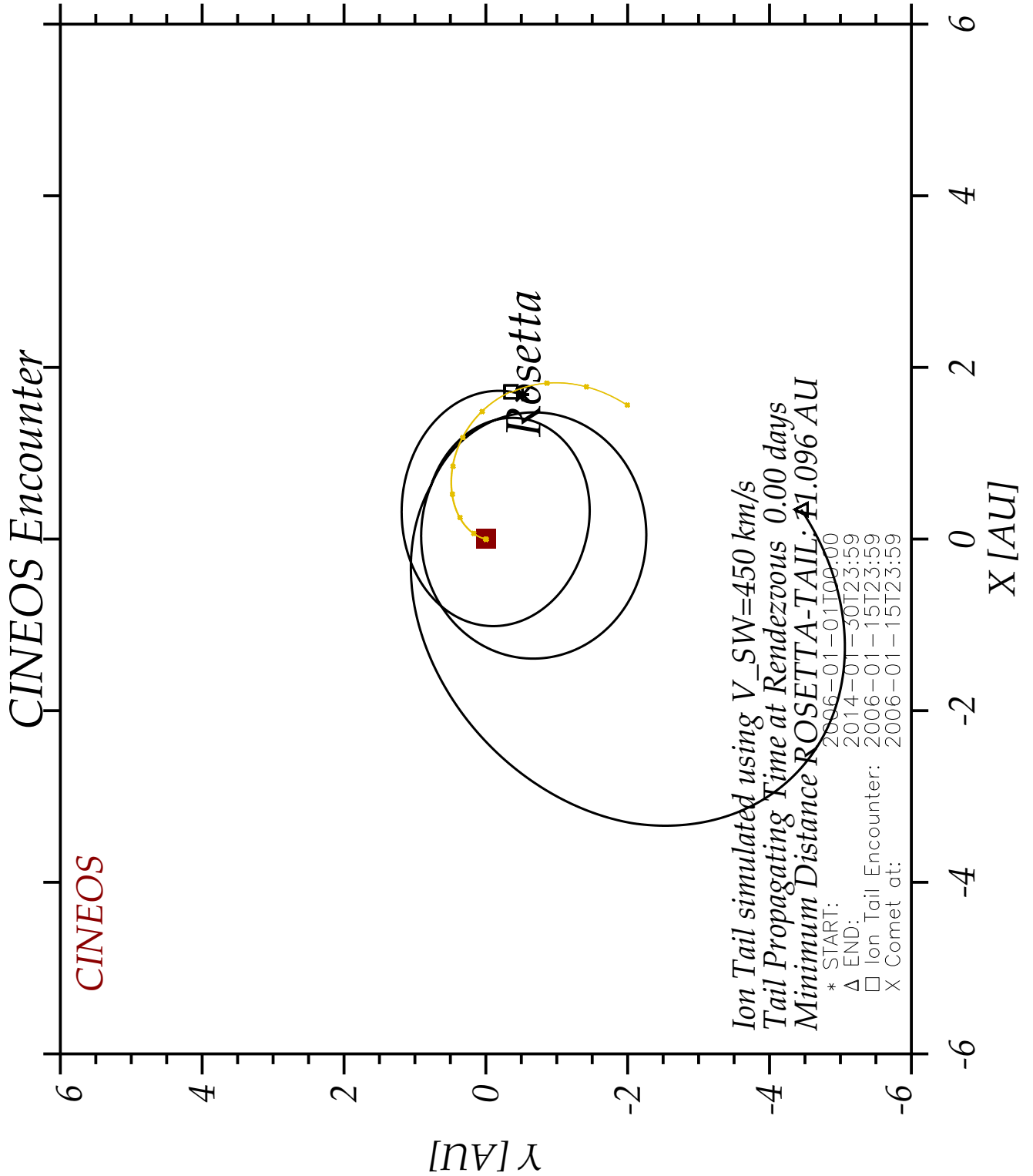


Figure 344: Overview: ROSETTA - CINEOS

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175 Comet 168P/HERGENROTHER 168

Comet: 168P/HERGENROTHER 168
No Encounter below 0.2000AU

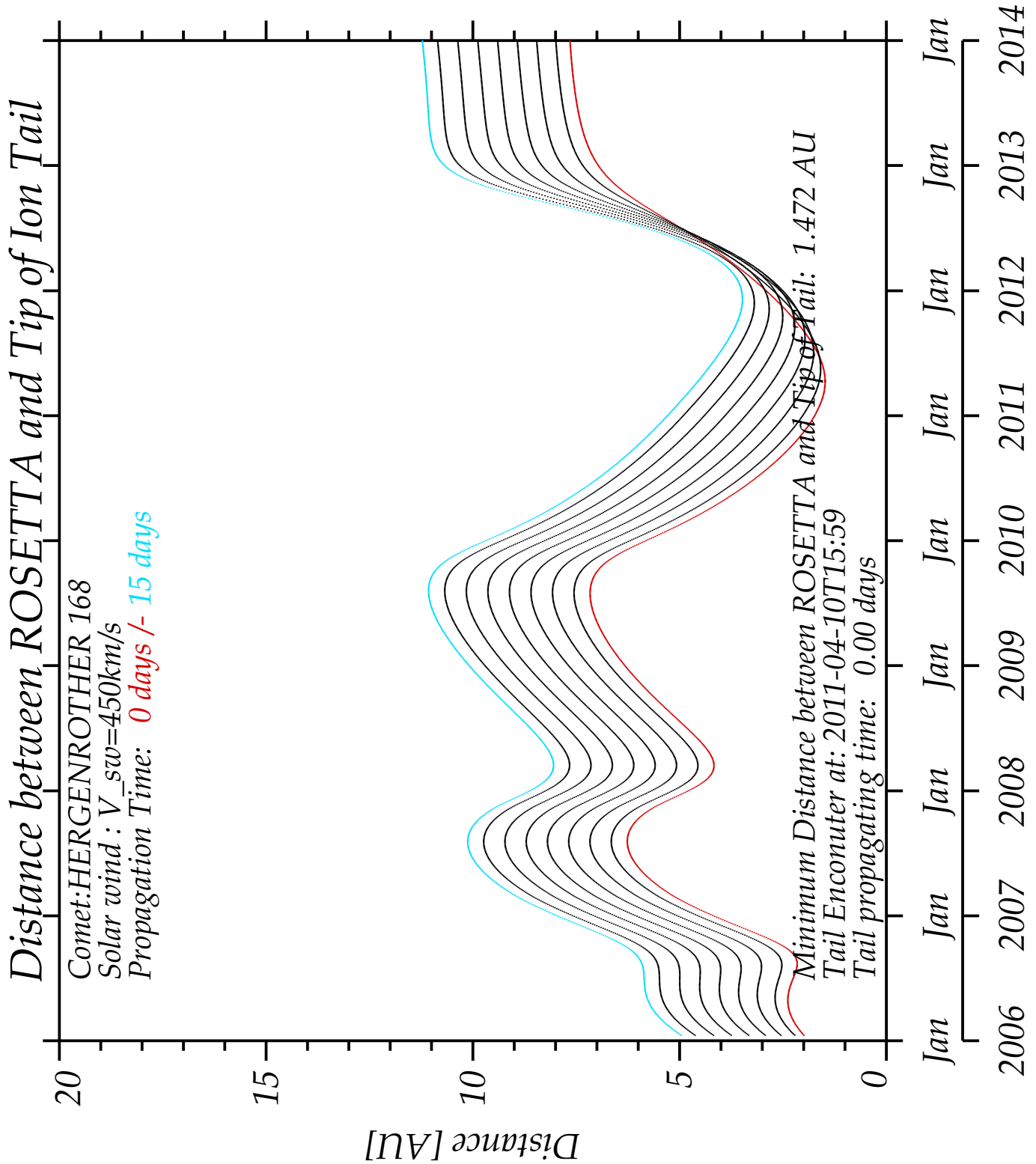


Figure 345: Minimum Distances: ROSETTA - HERGENROTHER 168

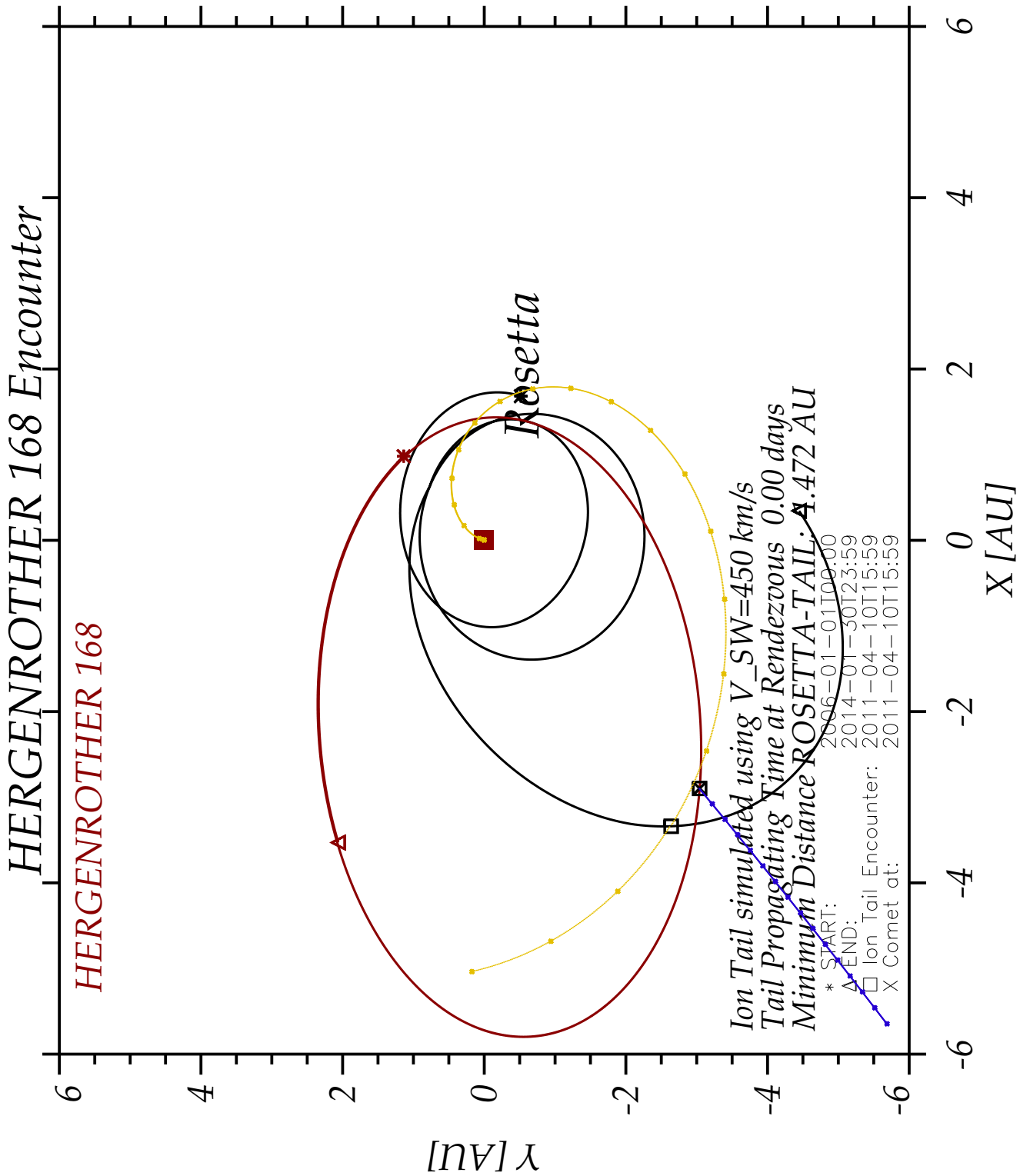


Figure 346: Overview: ROSETTA - HERGENROTHER 168

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176 Comet 169P/NEAT 169

Comet: 169P/NEAT 169
No Encounter below 0.2000AU

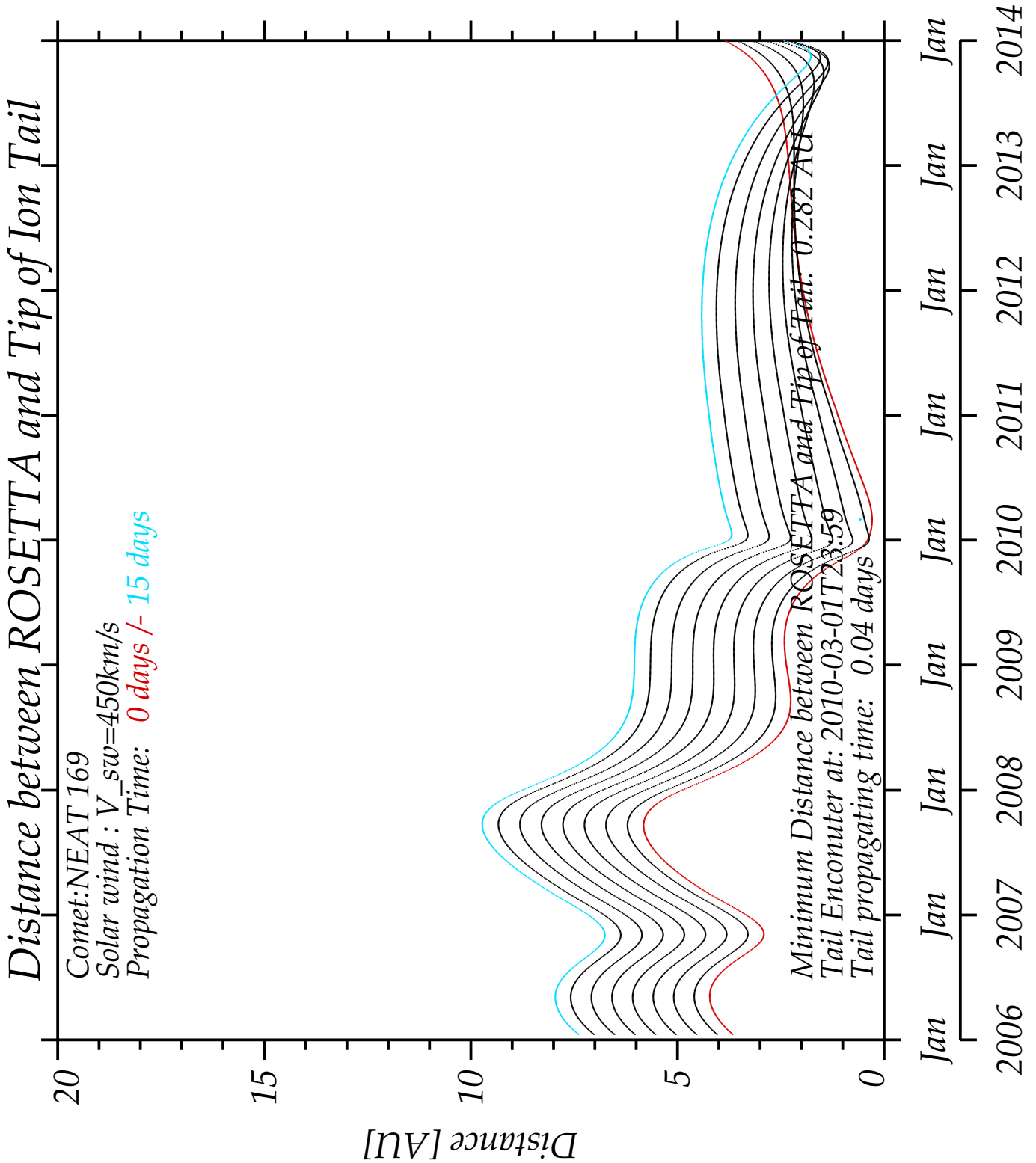


Figure 347: Minimum Distances: ROSETTA - NEAT 169

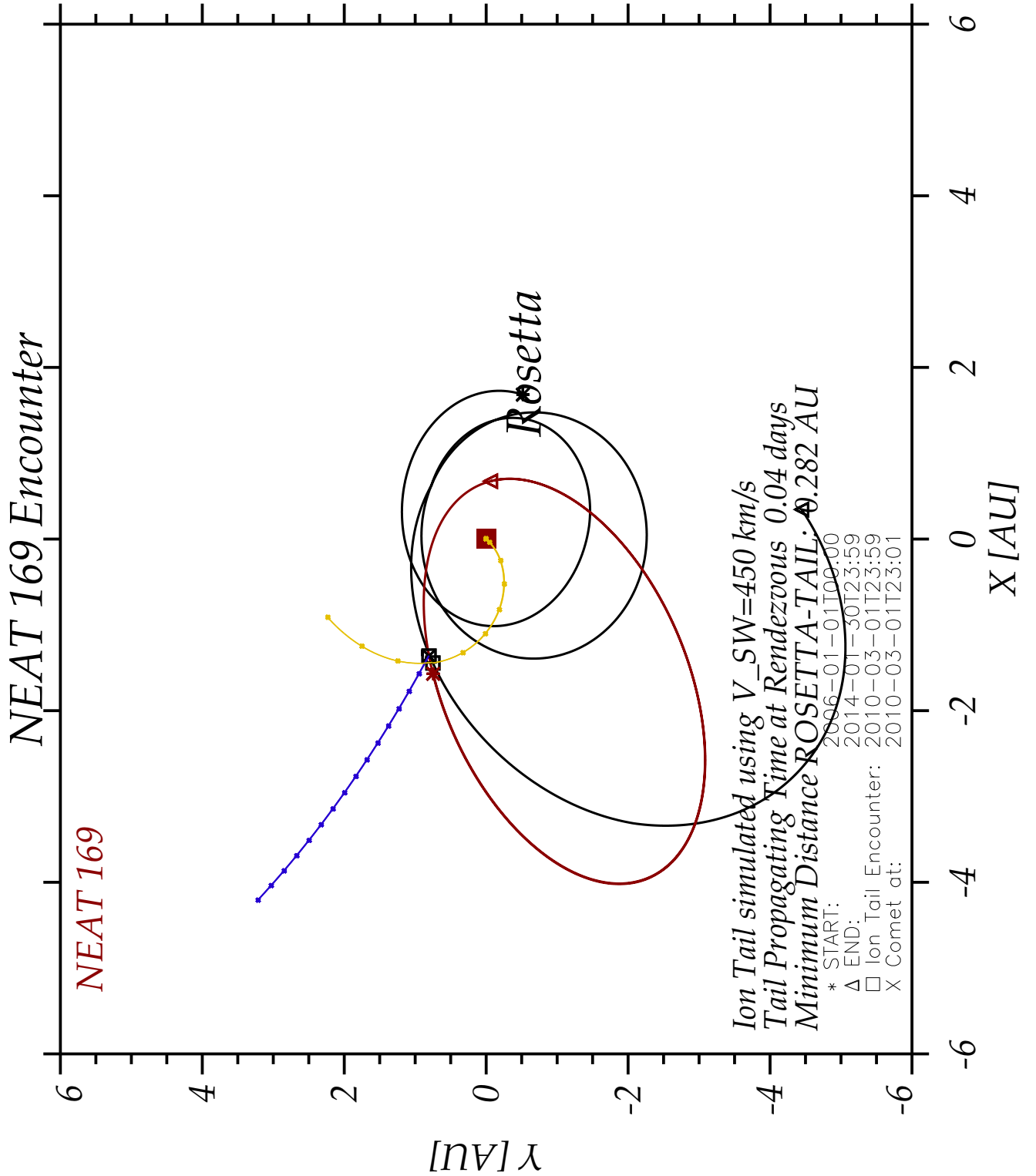


Figure 348: Overview: ROSETTA - NEAT 169

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177 Comet 170P/CHRISTENSEN 170

Comet: 170P/CHRISTENSEN 170
No Encounter below 0.2000AU

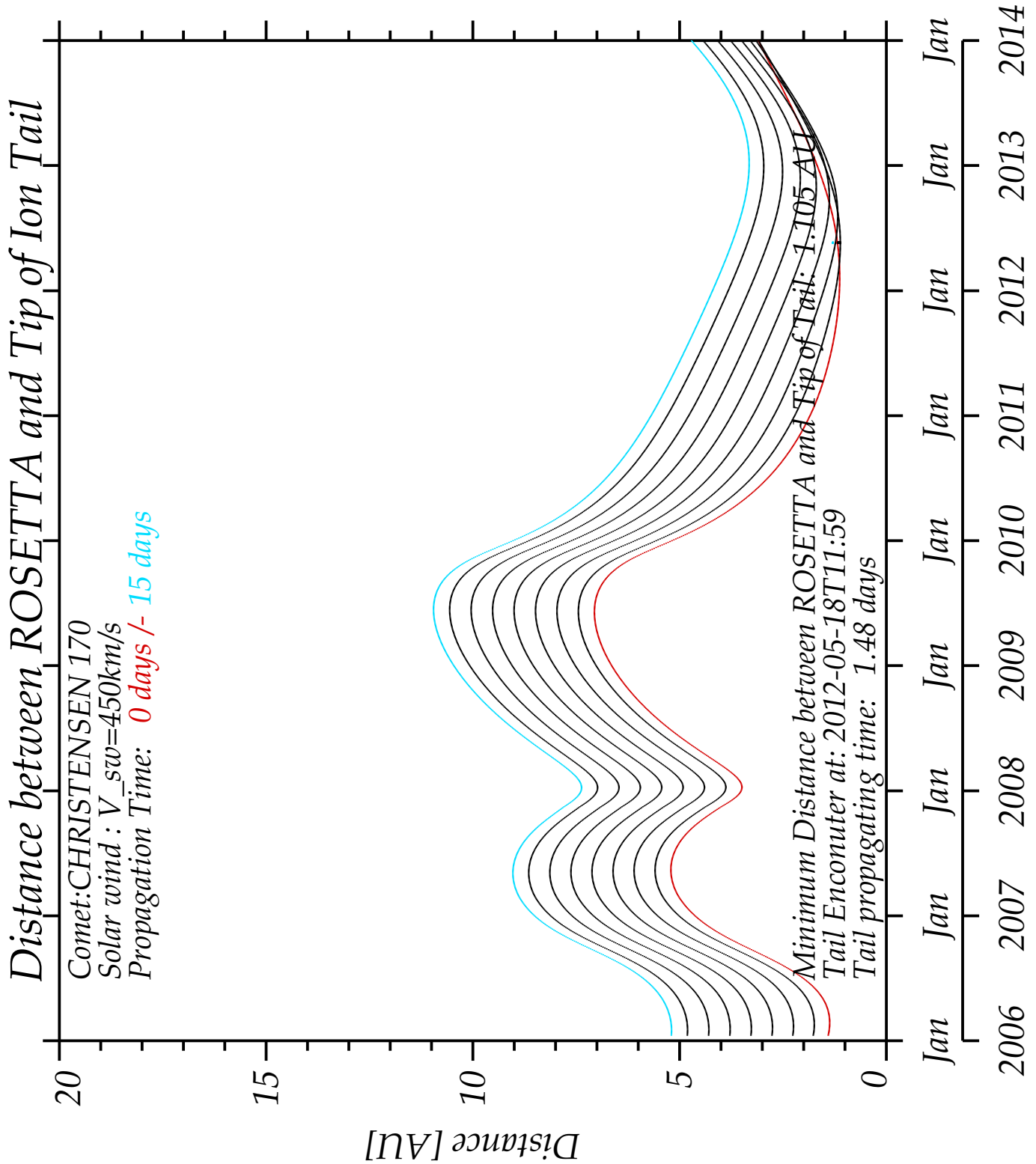


Figure 349: Minimum Distances: ROSETTA - CHRISTENSEN 170

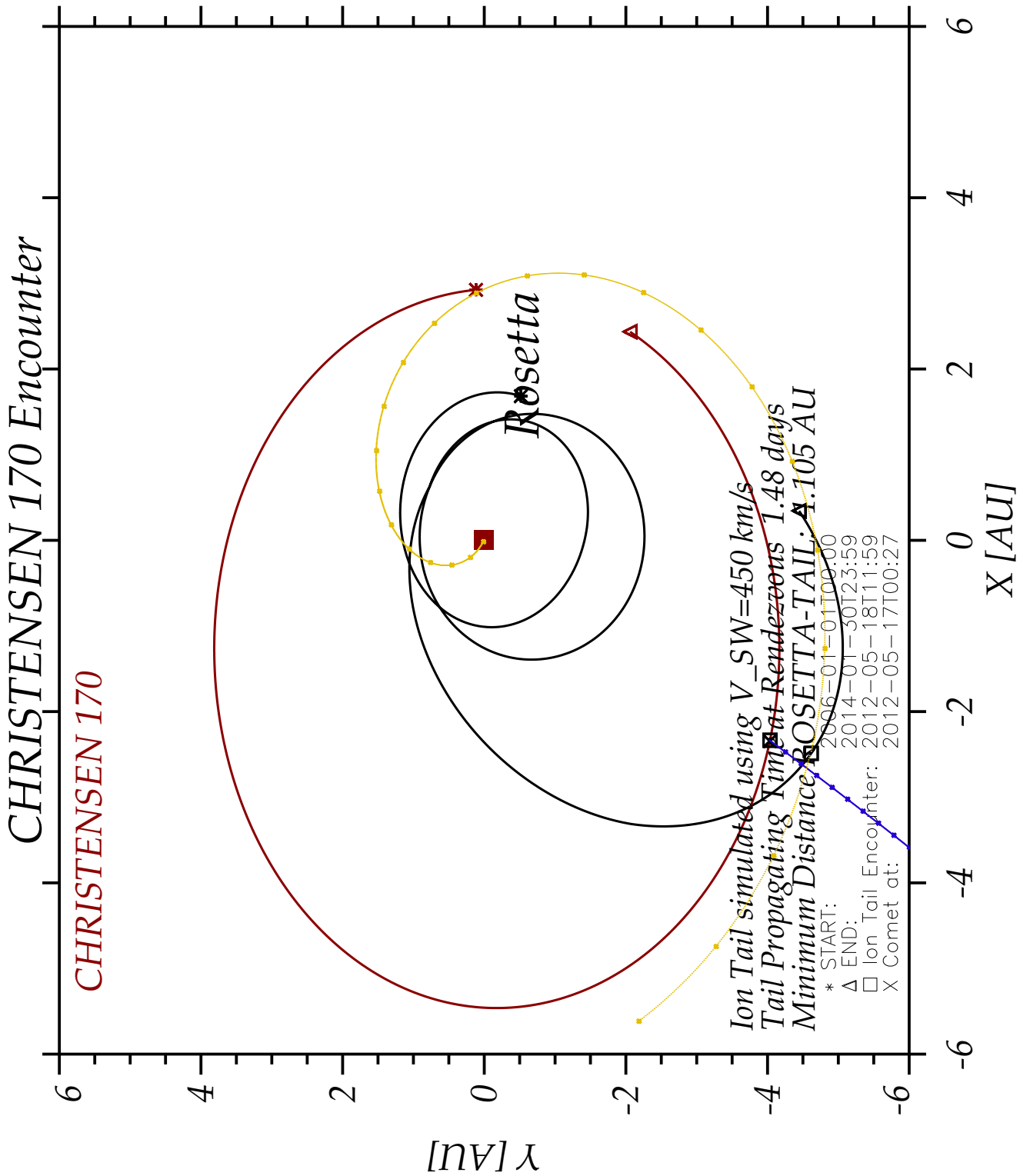


Figure 350: Overview: ROSETTA - CHRISTENSEN 170

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178 Comet 171P/SPAHR

Comet: 171P/SPAHR
No Encounter below 0.2000AU

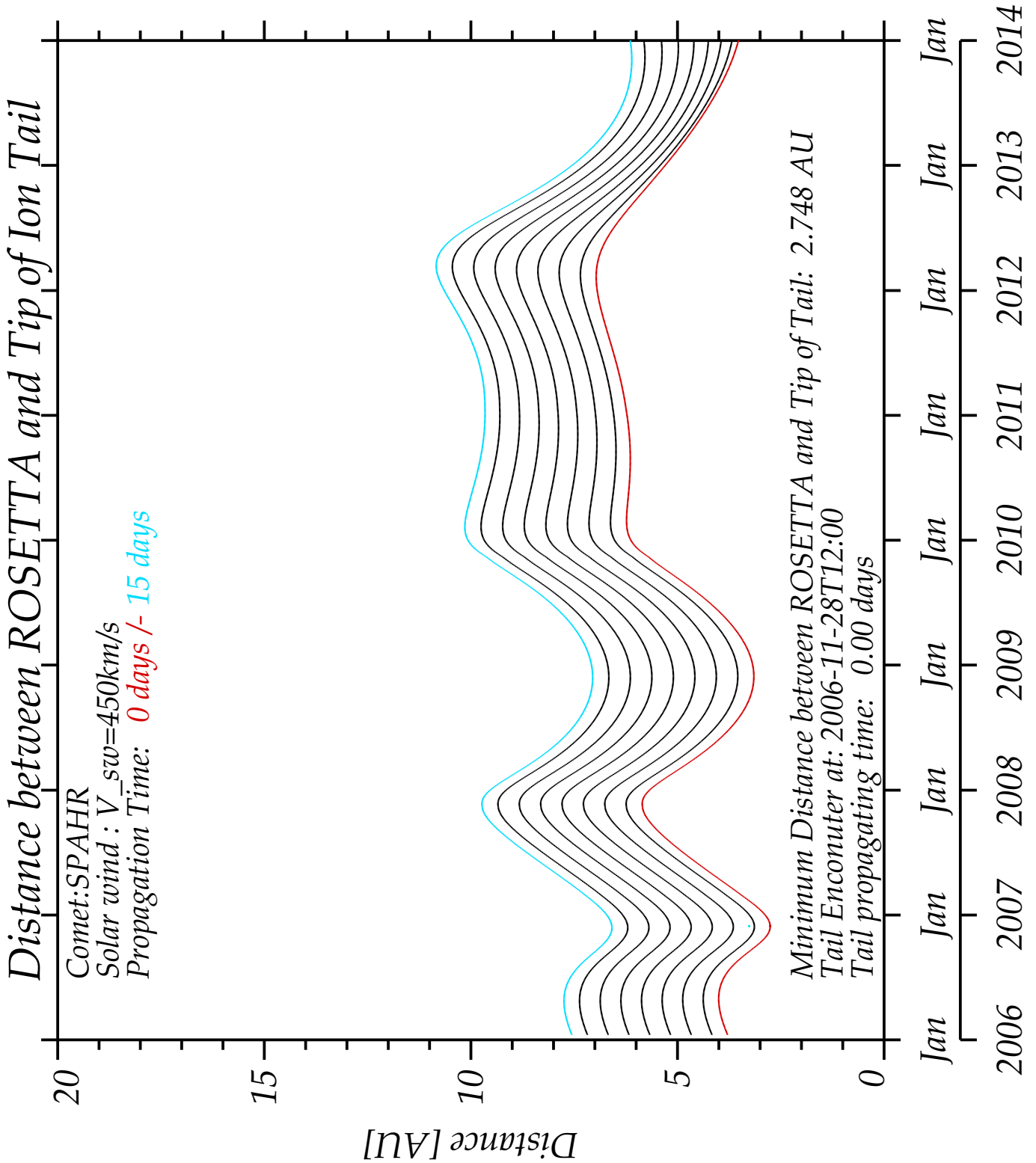


Figure 351: Minimum Distances: ROSETTA - SPAHR

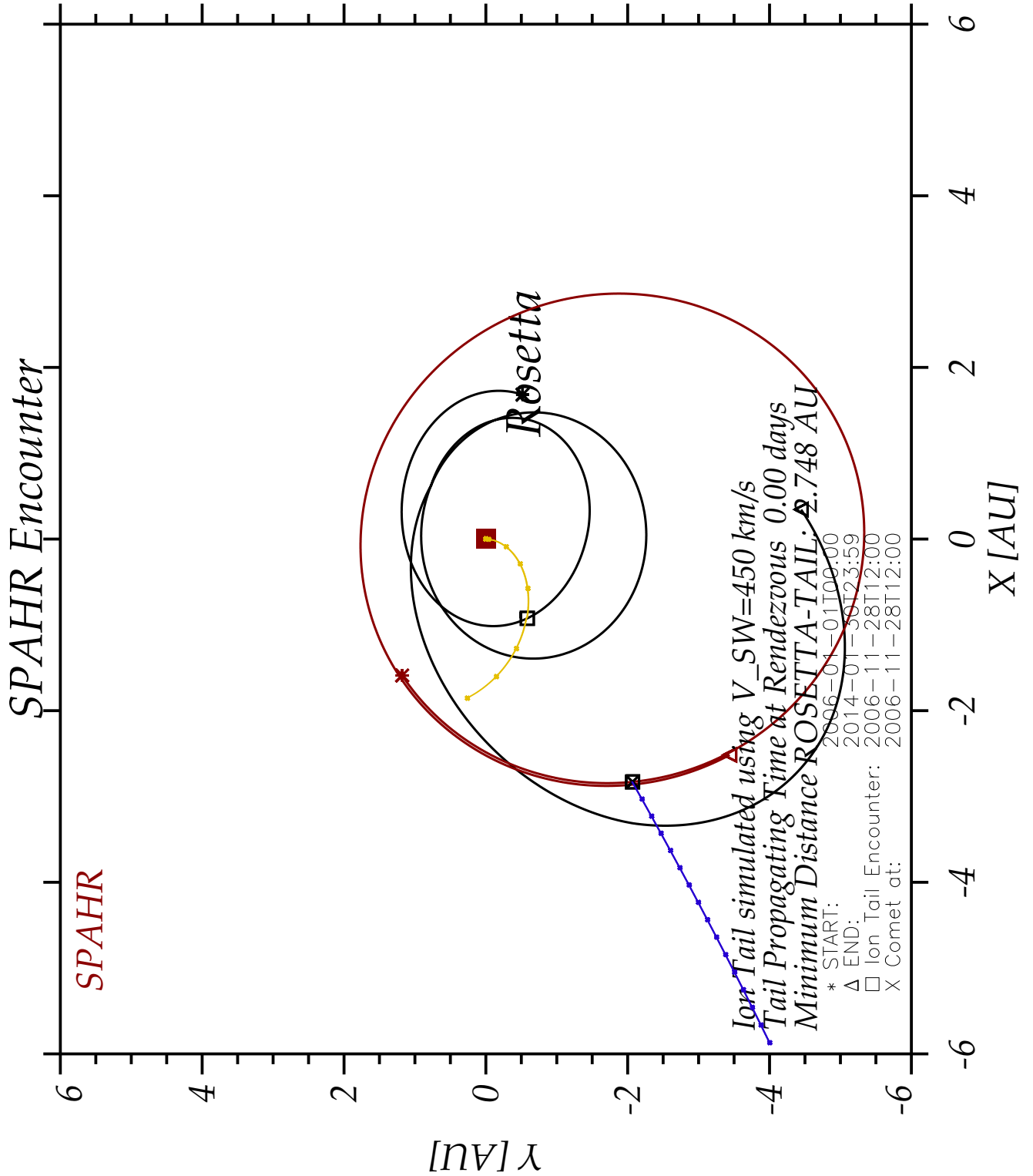


Figure 352: Overview: ROSETTA - SPAHR

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179 Comet 172P/YEUNG

Comet: 172P/YEUNG
No Encounter below 0.2000AU

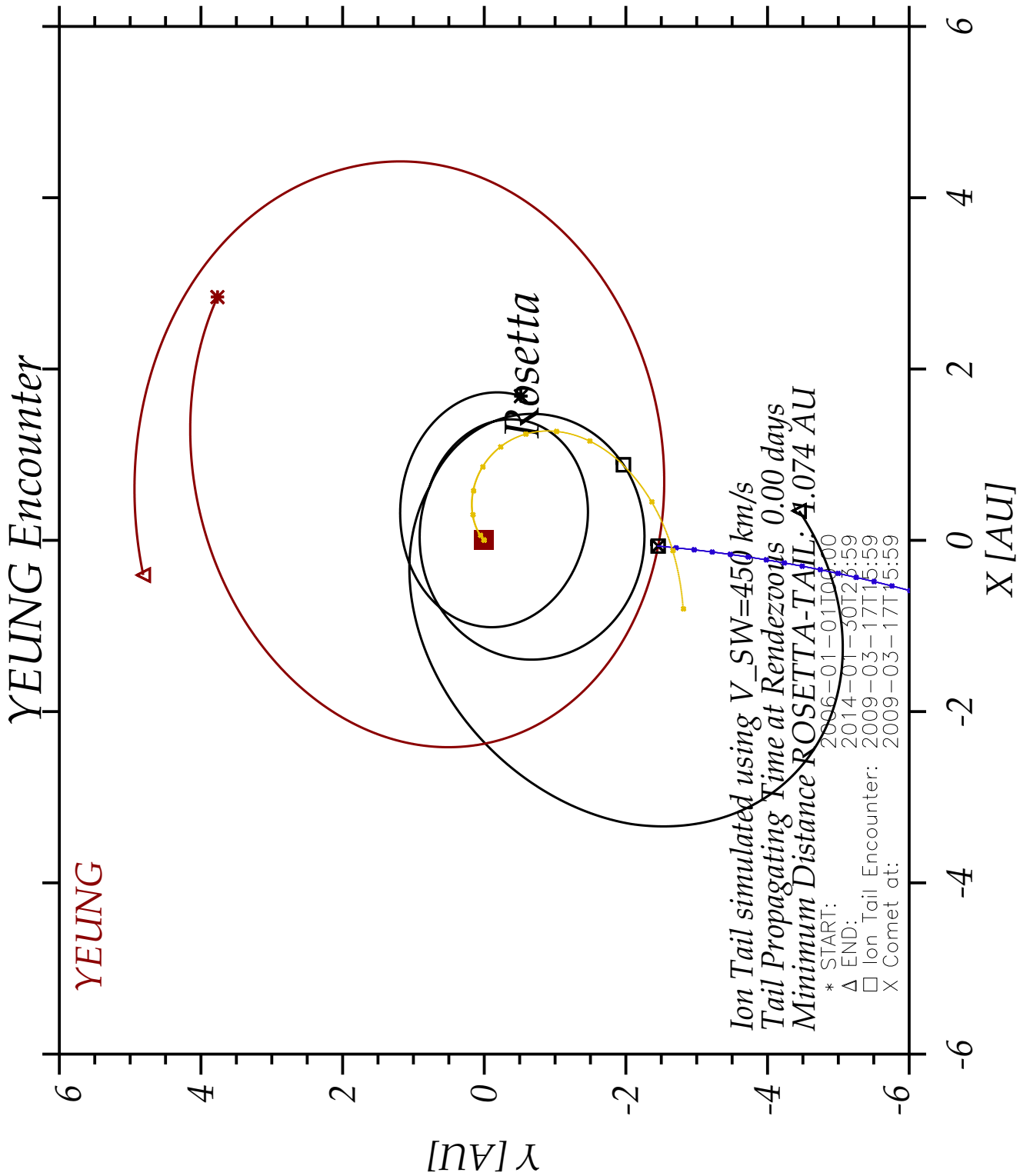


Figure 354: Overview: ROSETTA - YEUNG

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180 Comet 173P/MUELLER 5

Comet: 173P/MUELLER 5
No Encounter below 0.2000AU

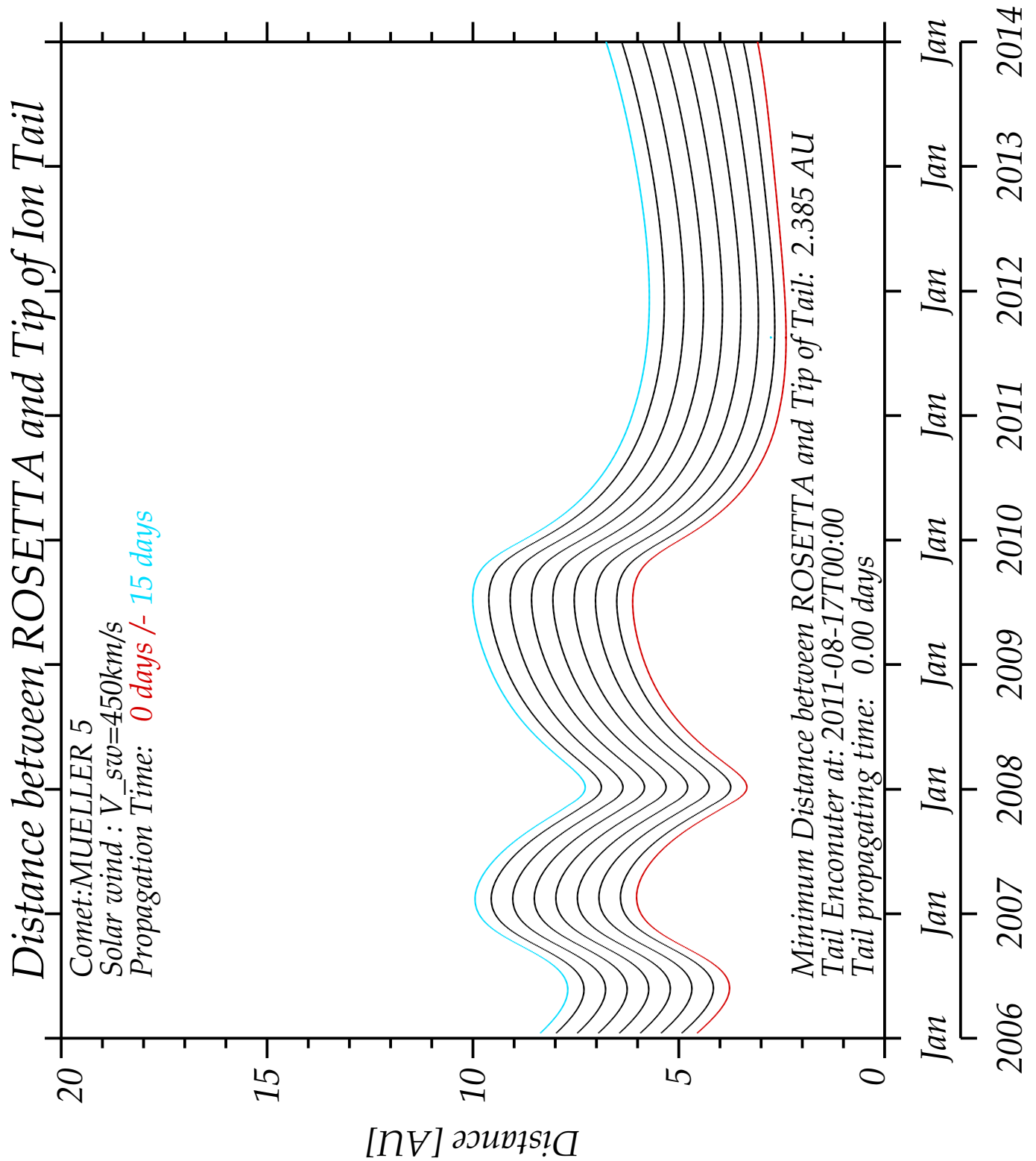


Figure 355: Minimum Distances: ROSETTA - MUELLER 5

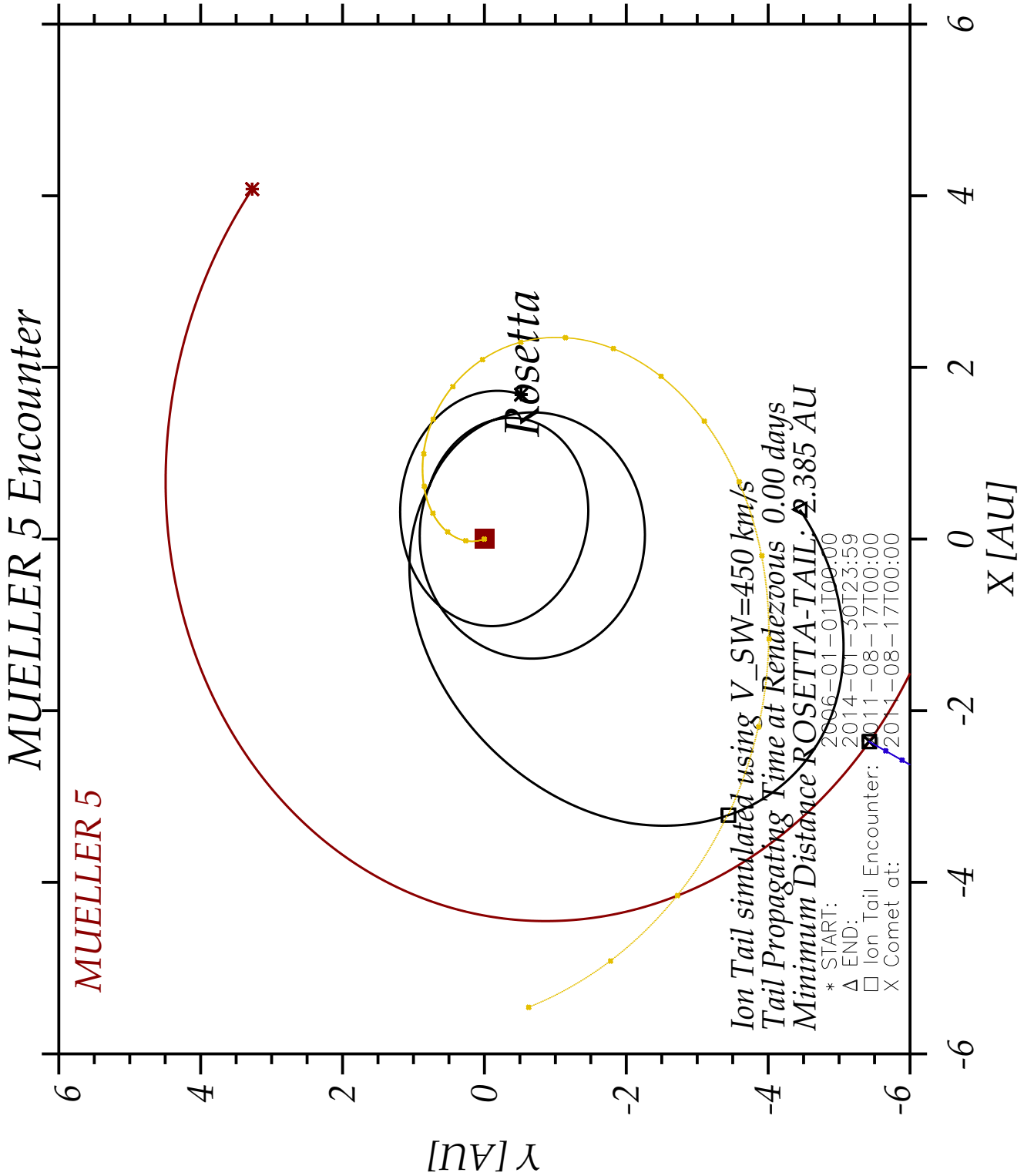


Figure 356: Overview: ROSETTA - MUELLER 5

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181 Comet 174P/ECHECLUS

Comet: 174P/ECHECLUS
No Encounter below 0.2000AU

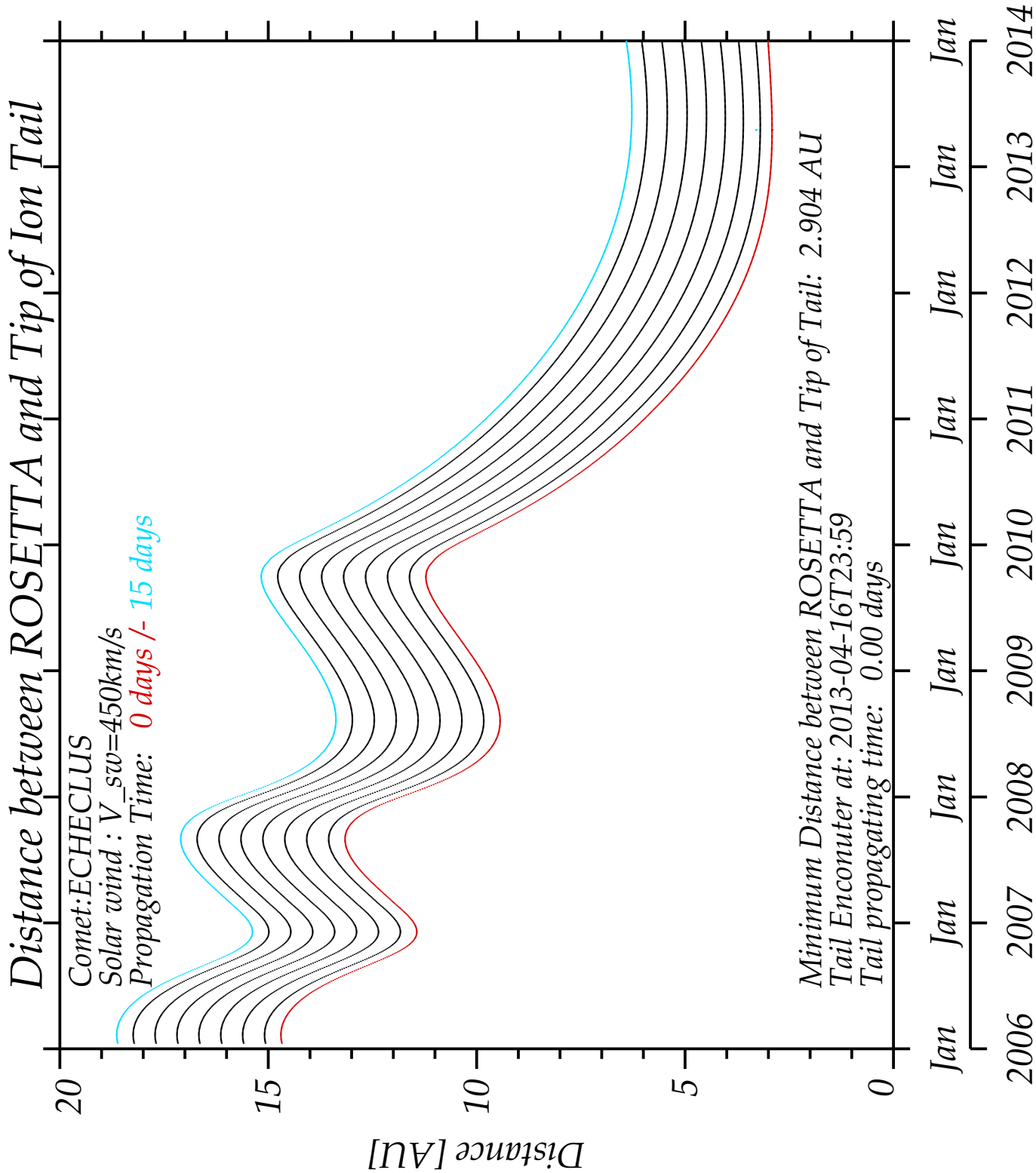


Figure 357: Minimum Distances: ROSETTA - ECHECLUS

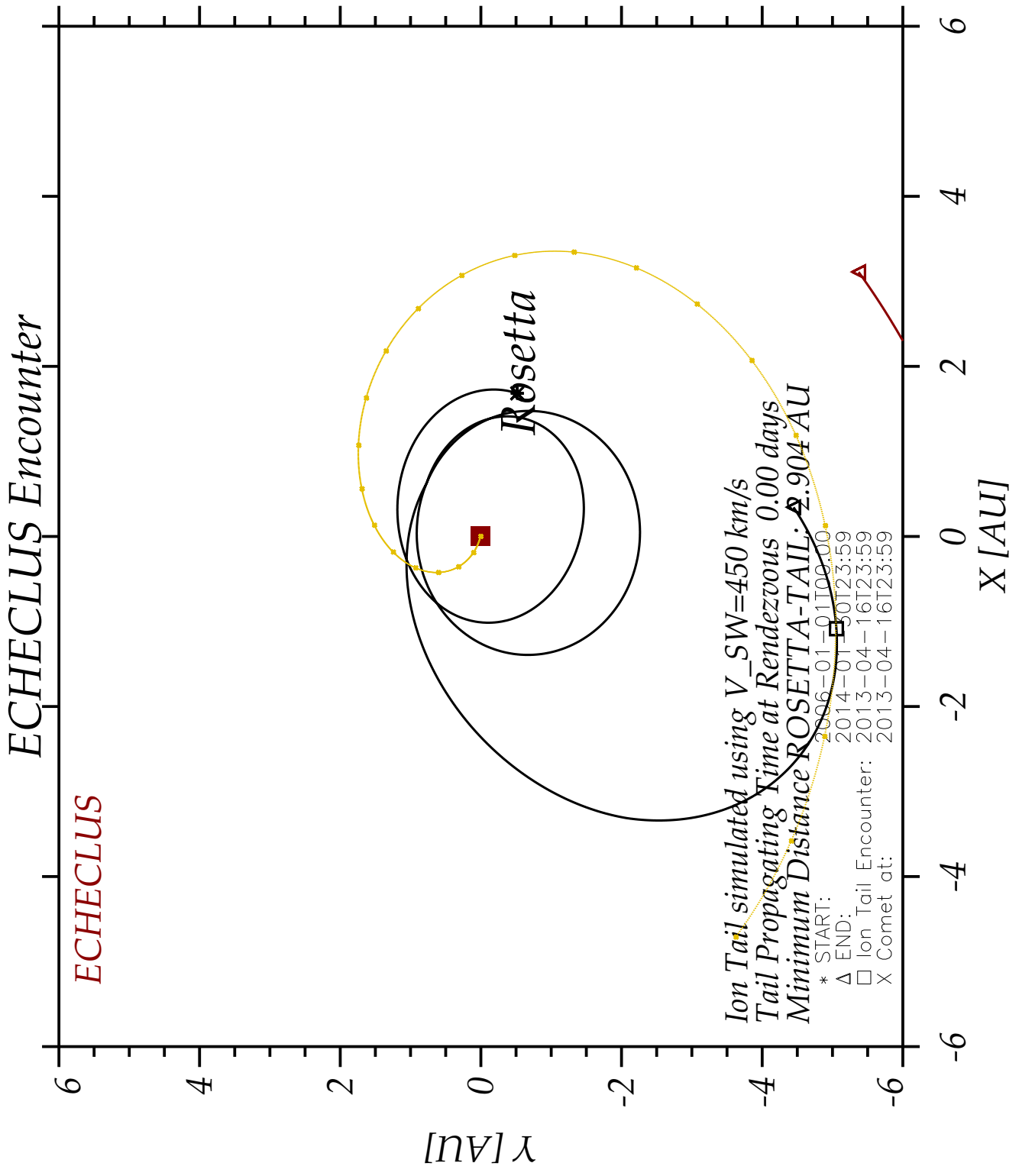


Figure 358: Overview: ROSETTA - ECHECLUS

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182 Comet 175P/HERGENROTHER 175

Comet: 175P/HERGENROTHER 175
No Encounter below 0.2000AU

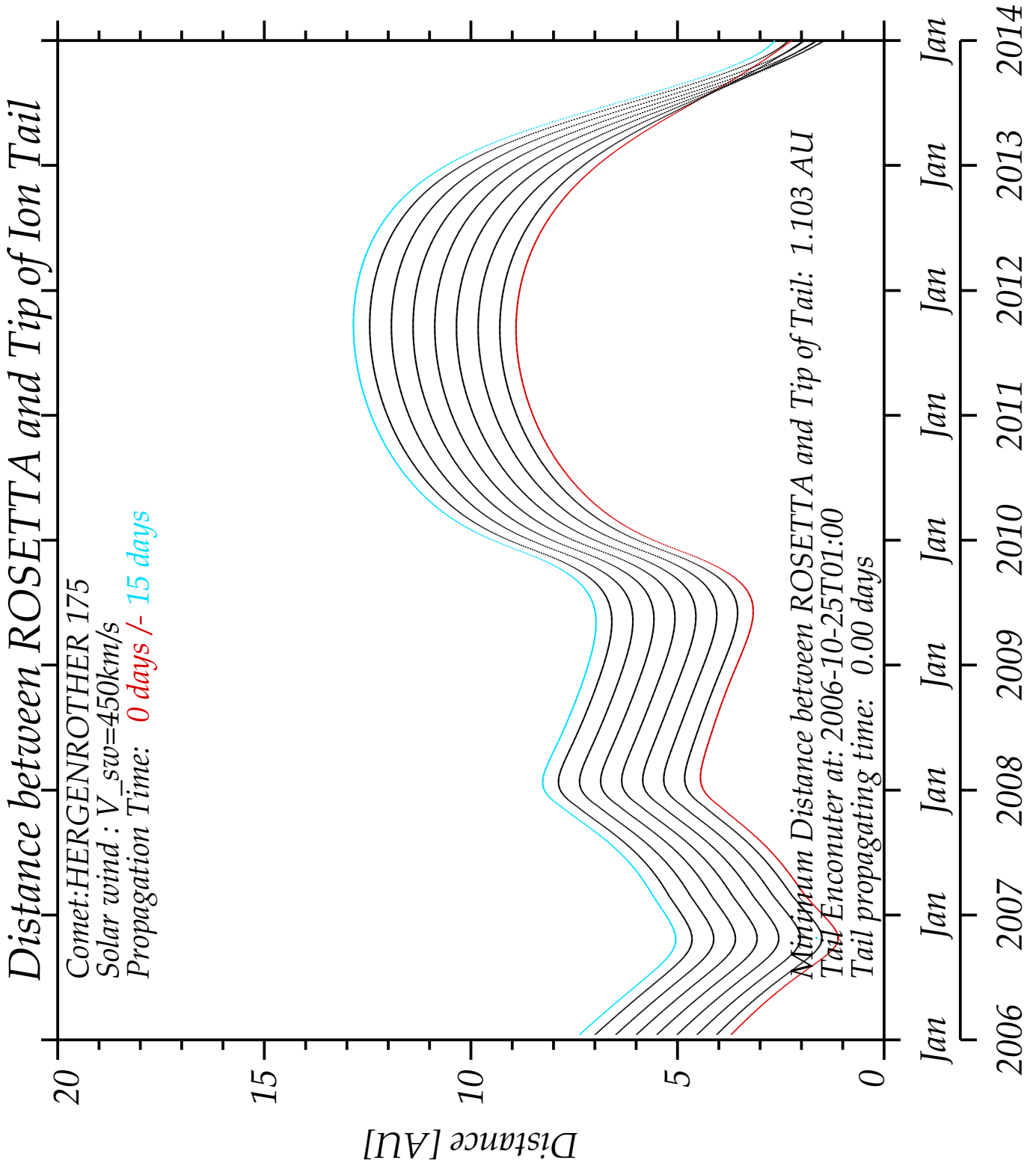


Figure 359: Minimum Distances: ROSETTA - HERGENROTHER 175

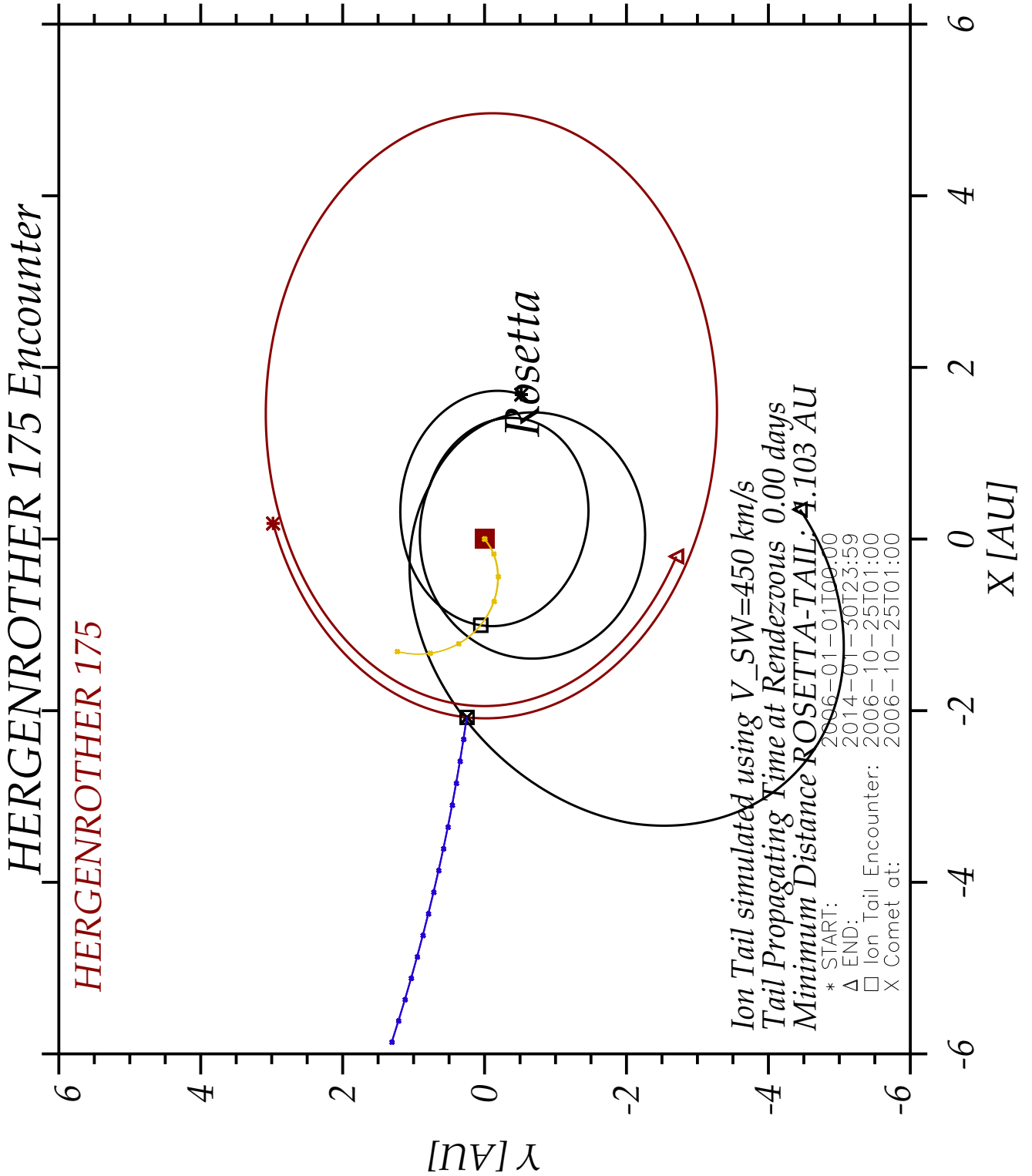


Figure 360: Overview: ROSETTA - HERGENROTHER 175

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183 Comet 176P/LINEAR 176

Comet: 176P/LINEAR 176
No Encounter below 0.2000AU

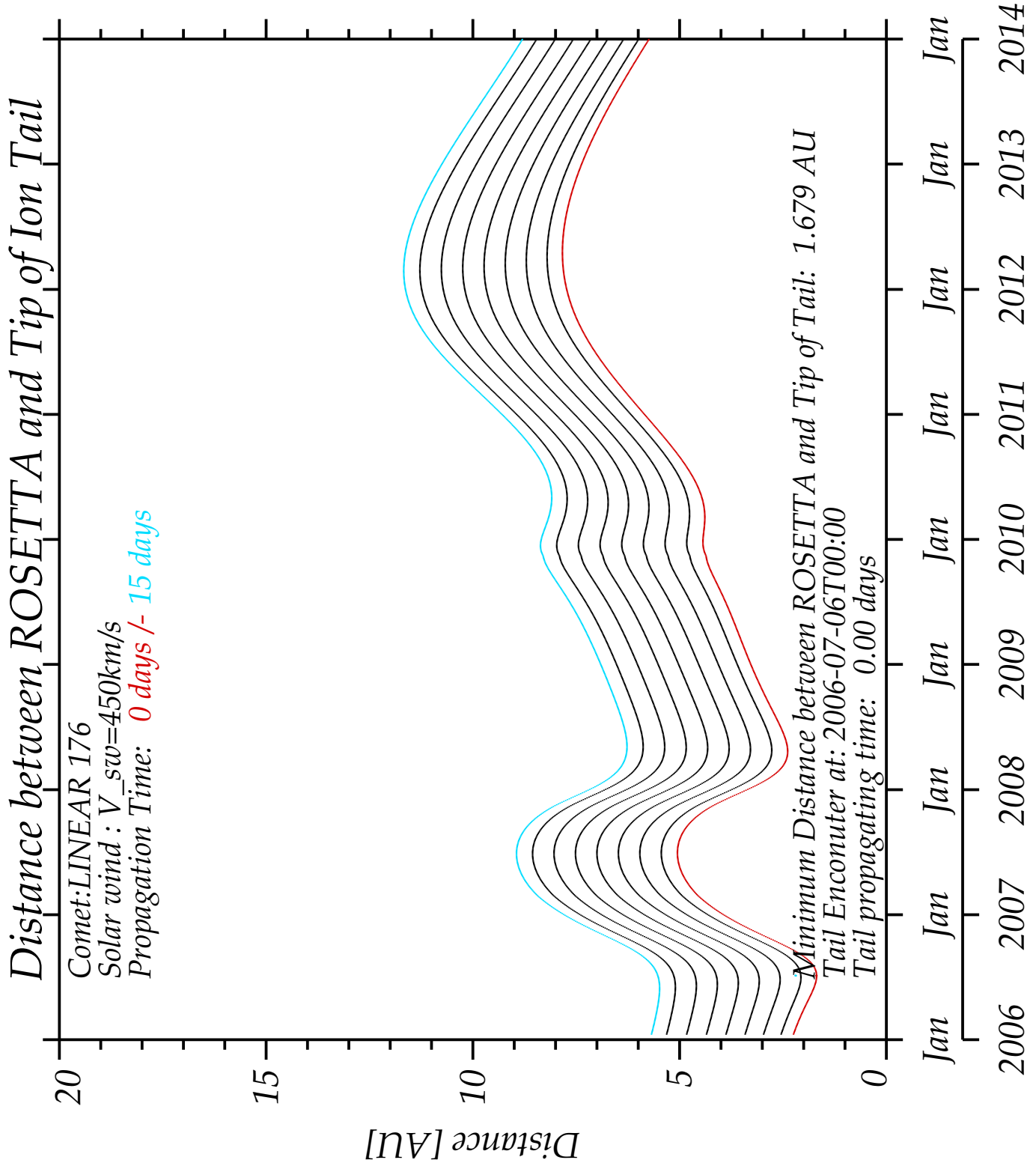


Figure 361: Minimum Distances: ROSETTA - LINEAR 176

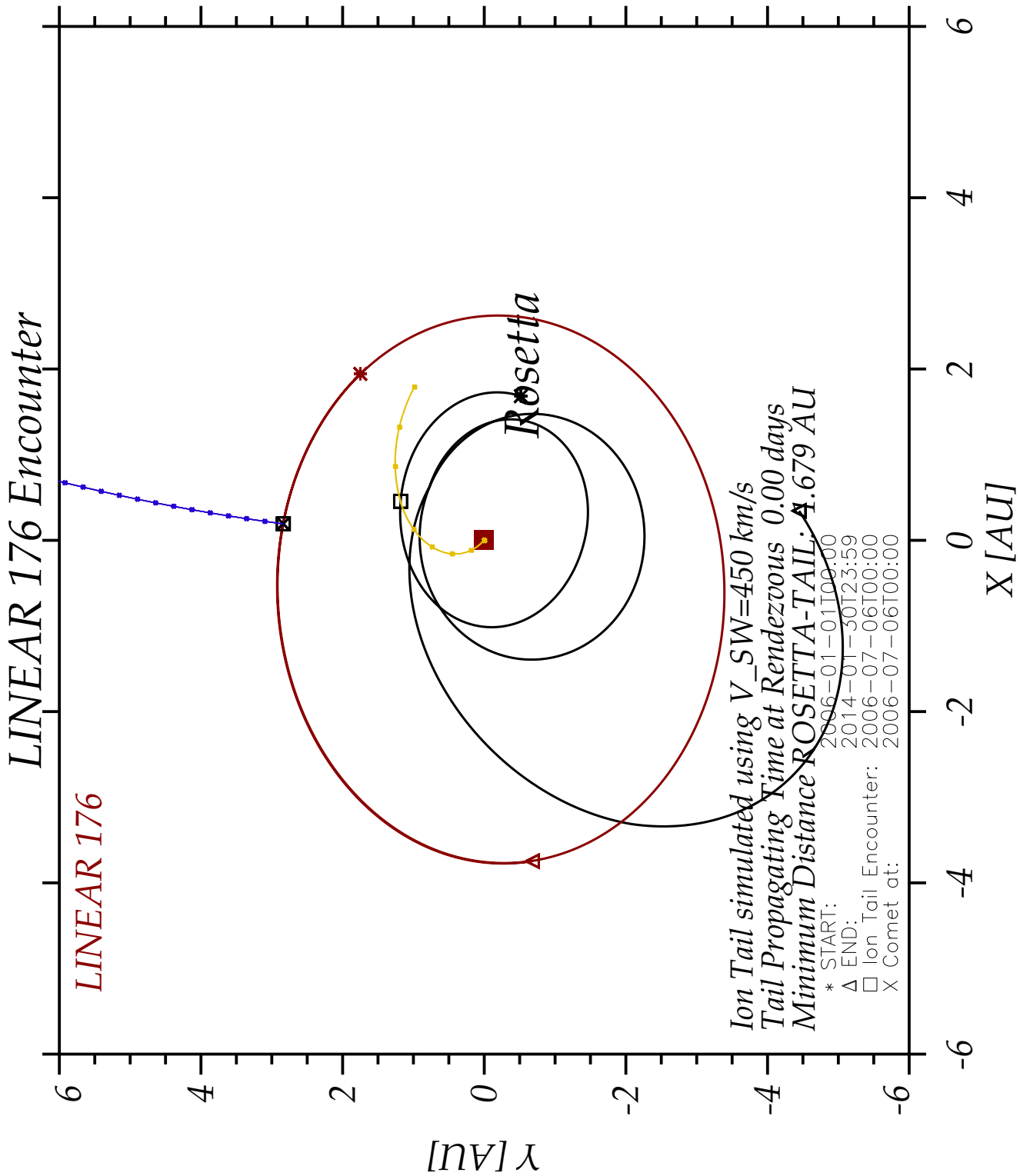


Figure 362: Overview: ROSETTA - LINEAR 176

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184 Comet 177P/BARNARD

Comet: 177P/BARNARD
No Encounter below 0.2000AU

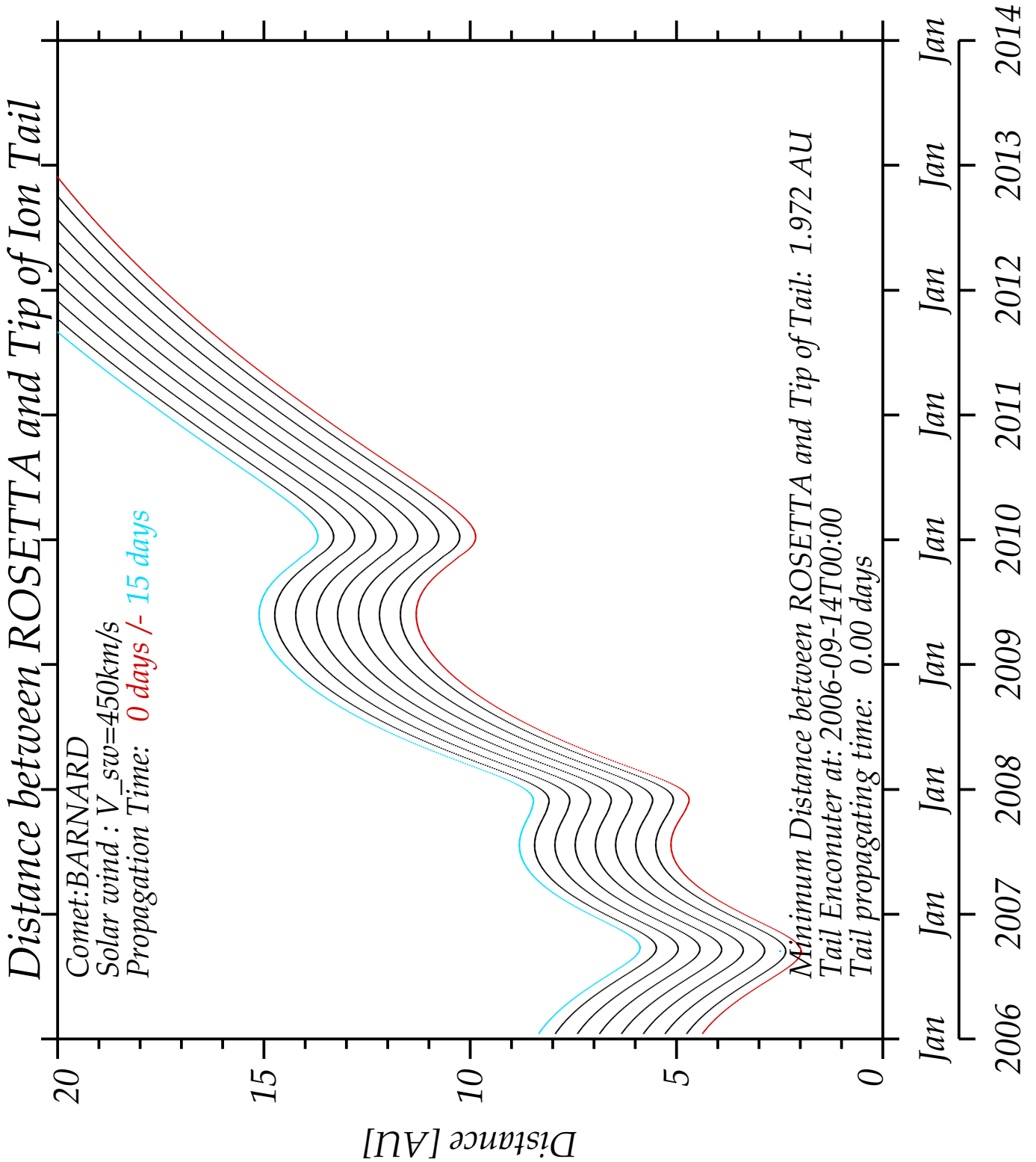


Figure 363: Minimum Distances: ROSETTA - BARNARD

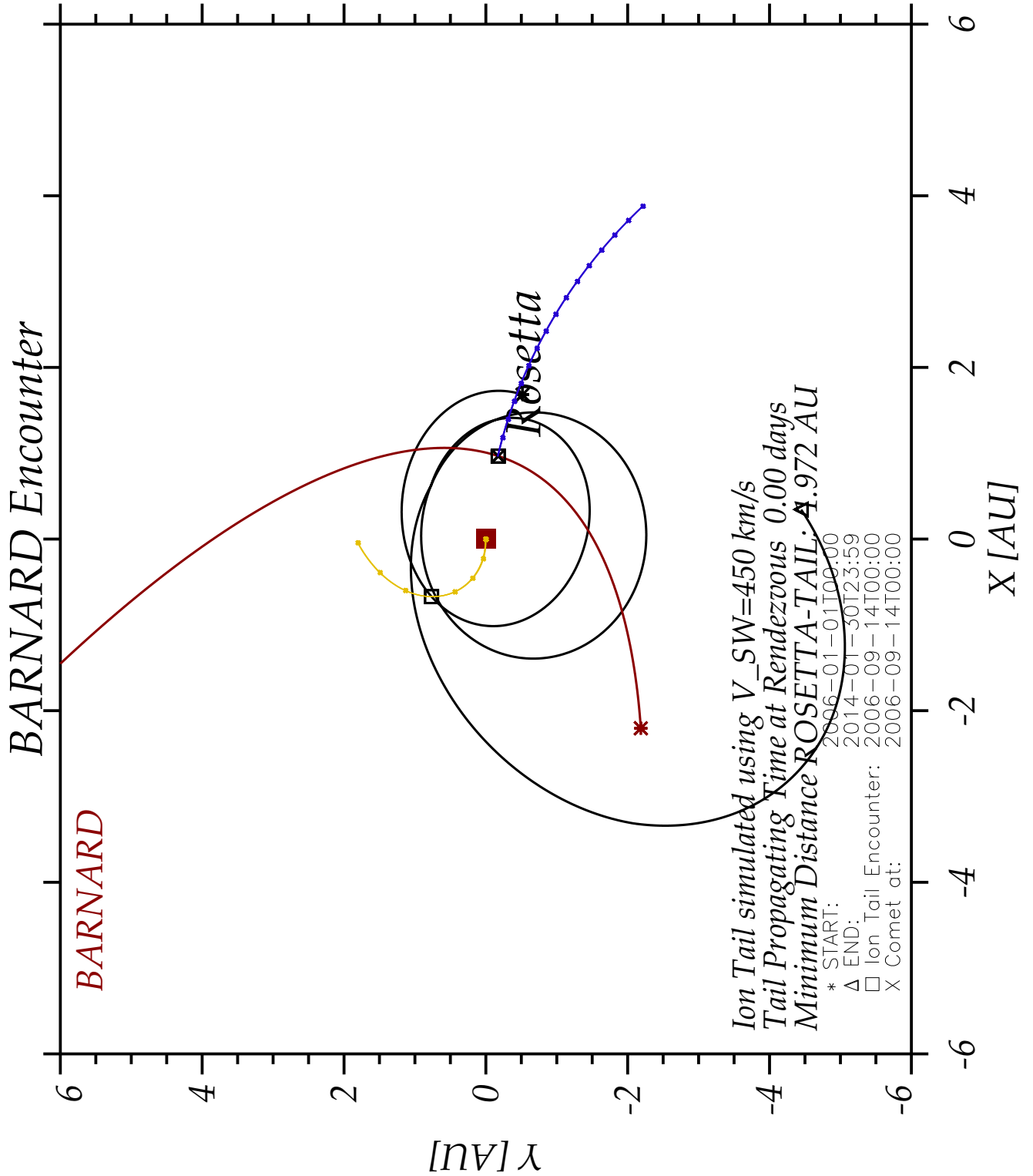


Figure 364: Overview: ROSETTA - BARNARD

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185 Comet 178P/HUG-BELL

Comet: 178P/HUG-BELL
No Encounter below 0.2000AU

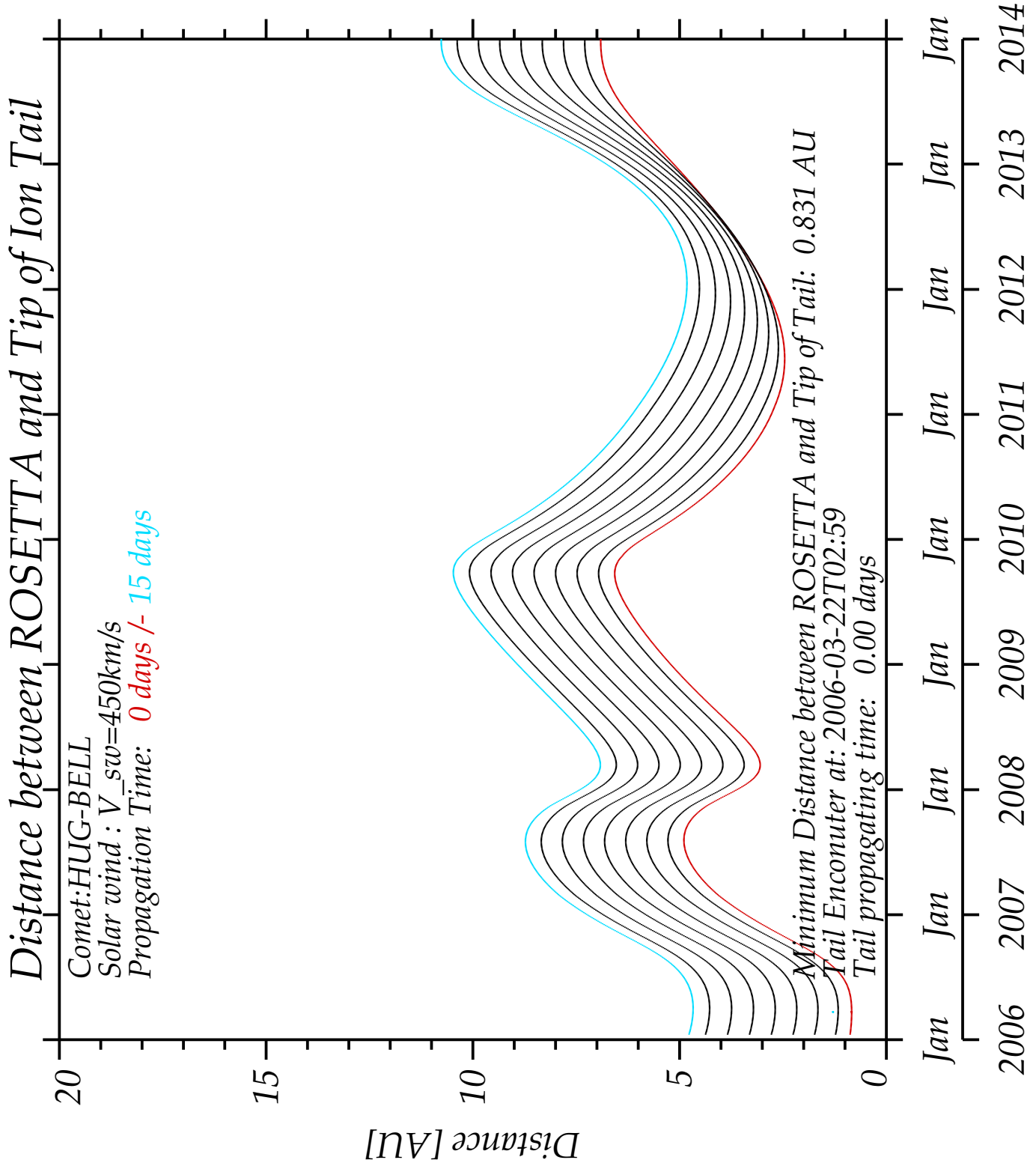


Figure 365: Minimum Distances: ROSETTA - HUG-BELL

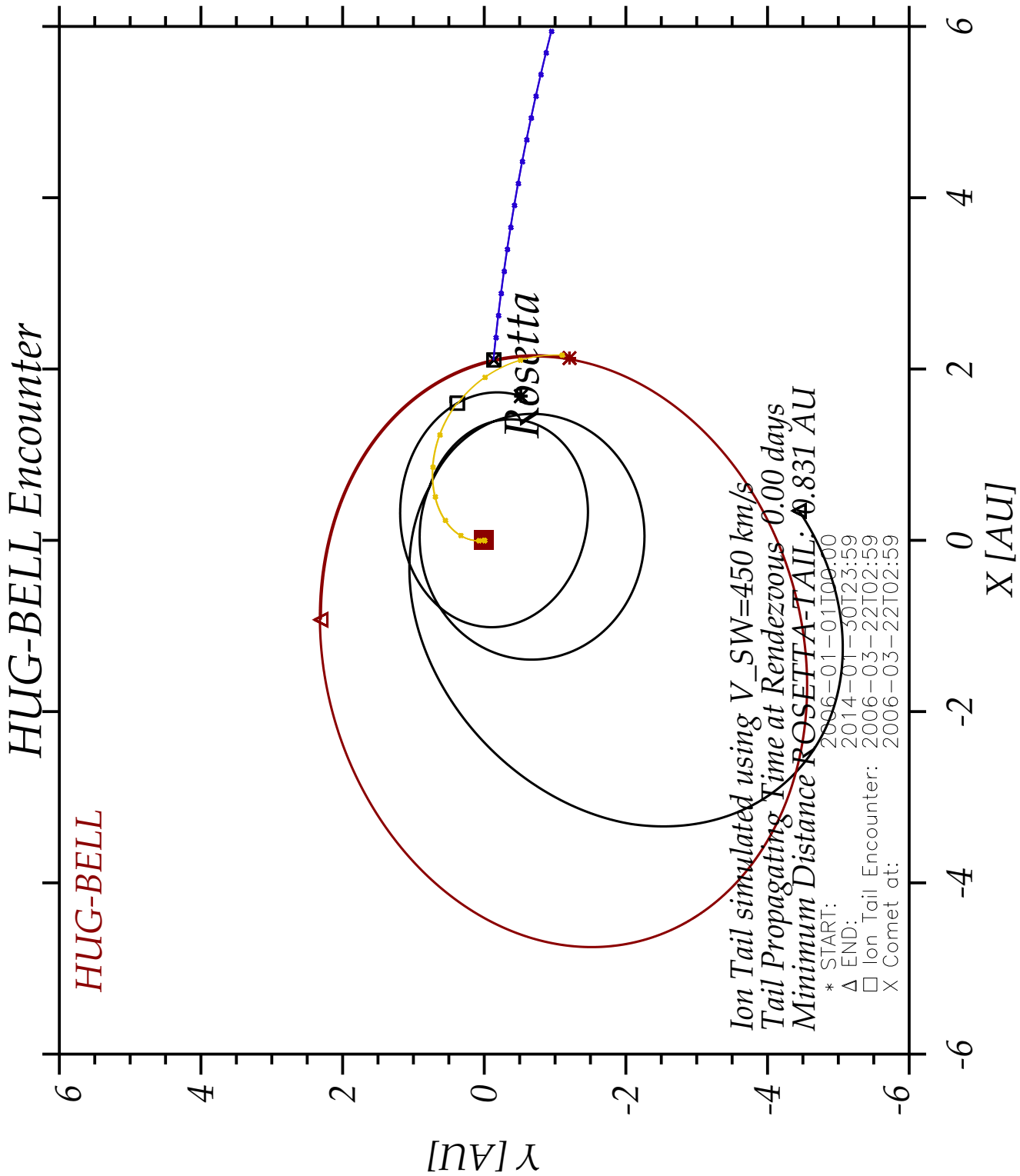


Figure 366: Overview: ROSETTA - HUG-BELL

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186 Comet LAGERKVIST1996R2

Comet: LAGERKVIST1996R2
No Encounter below 0.2000AU

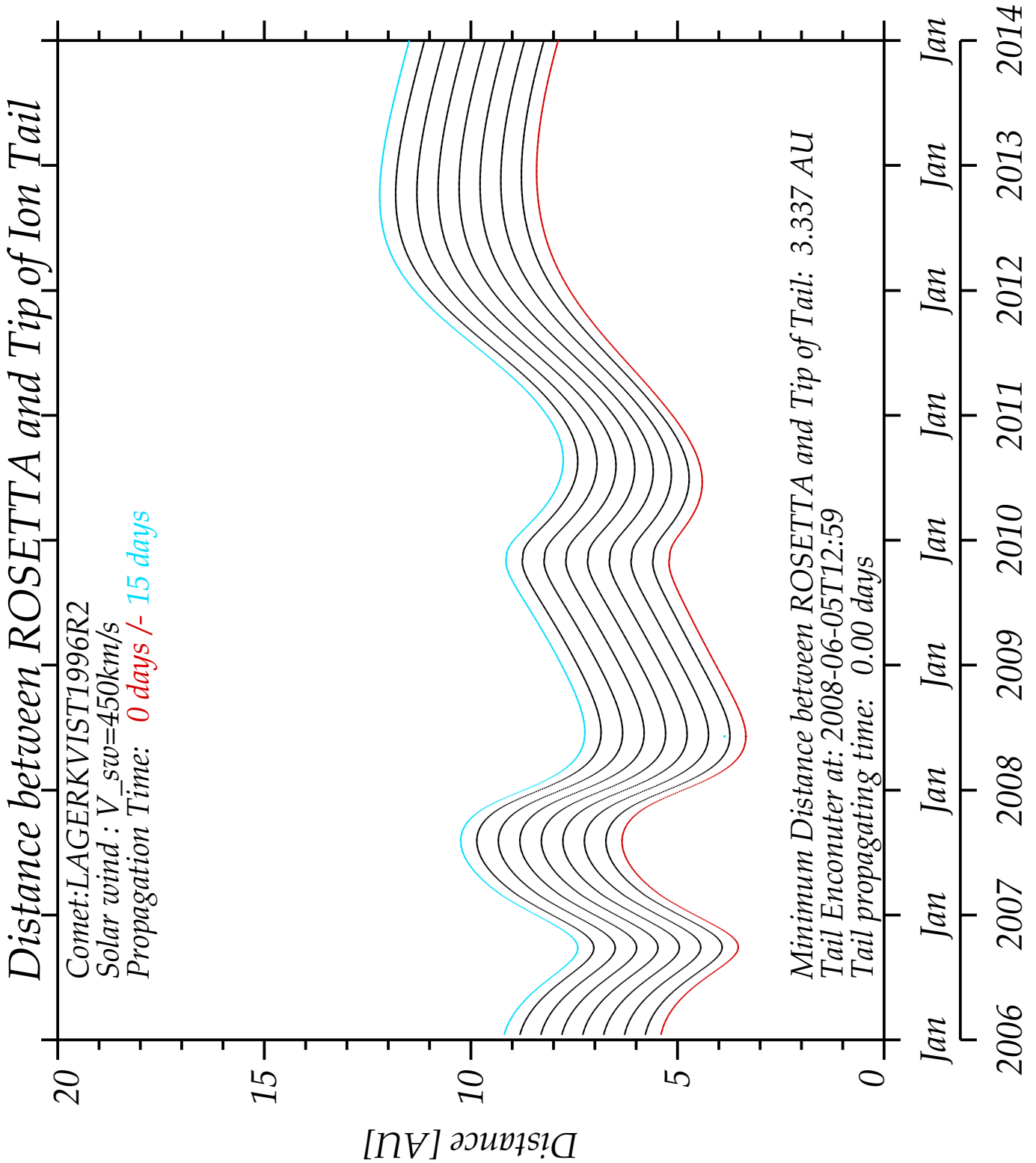


Figure 367: Minimum Distances: ROSETTA - LAGERKVIST1996R2

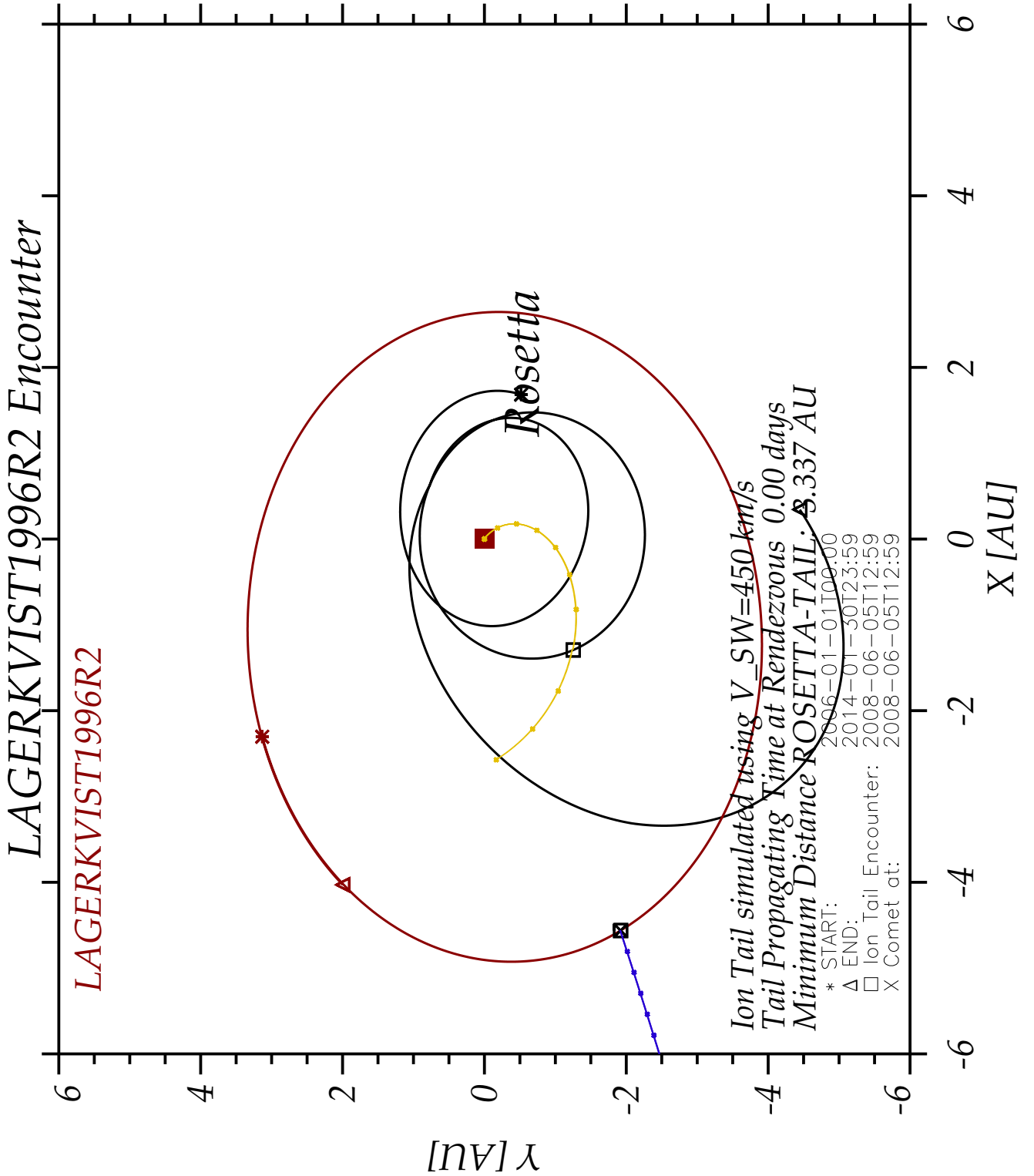


Figure 368: Overview: ROSETTA - LAGERKVIST1996R2

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187 Comet HALE-BOPP

Comet: HALE-BOPP
No Encounter below 0.2000AU

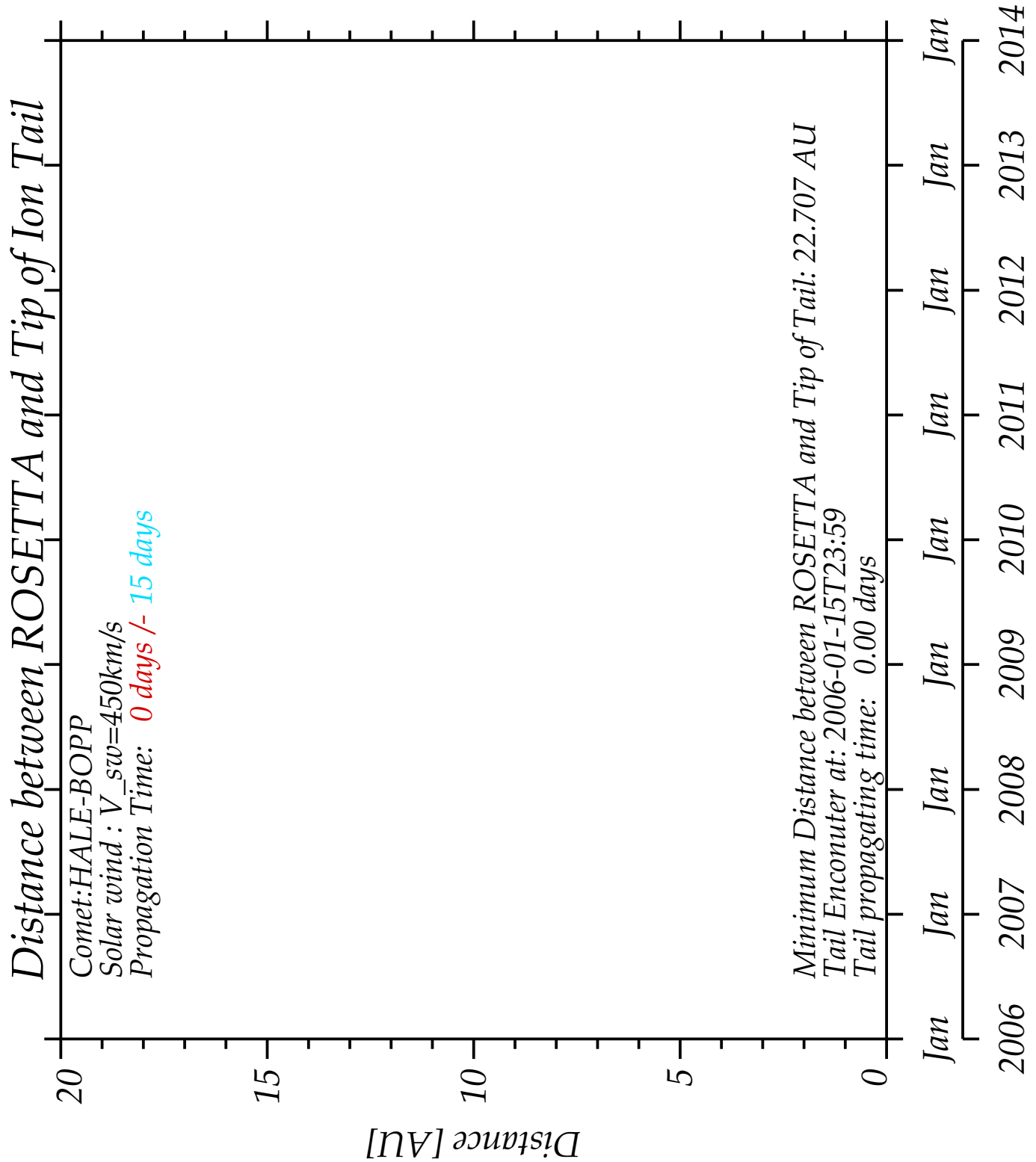


Figure 369: Minimum Distances: ROSETTA - HALE-BOPP

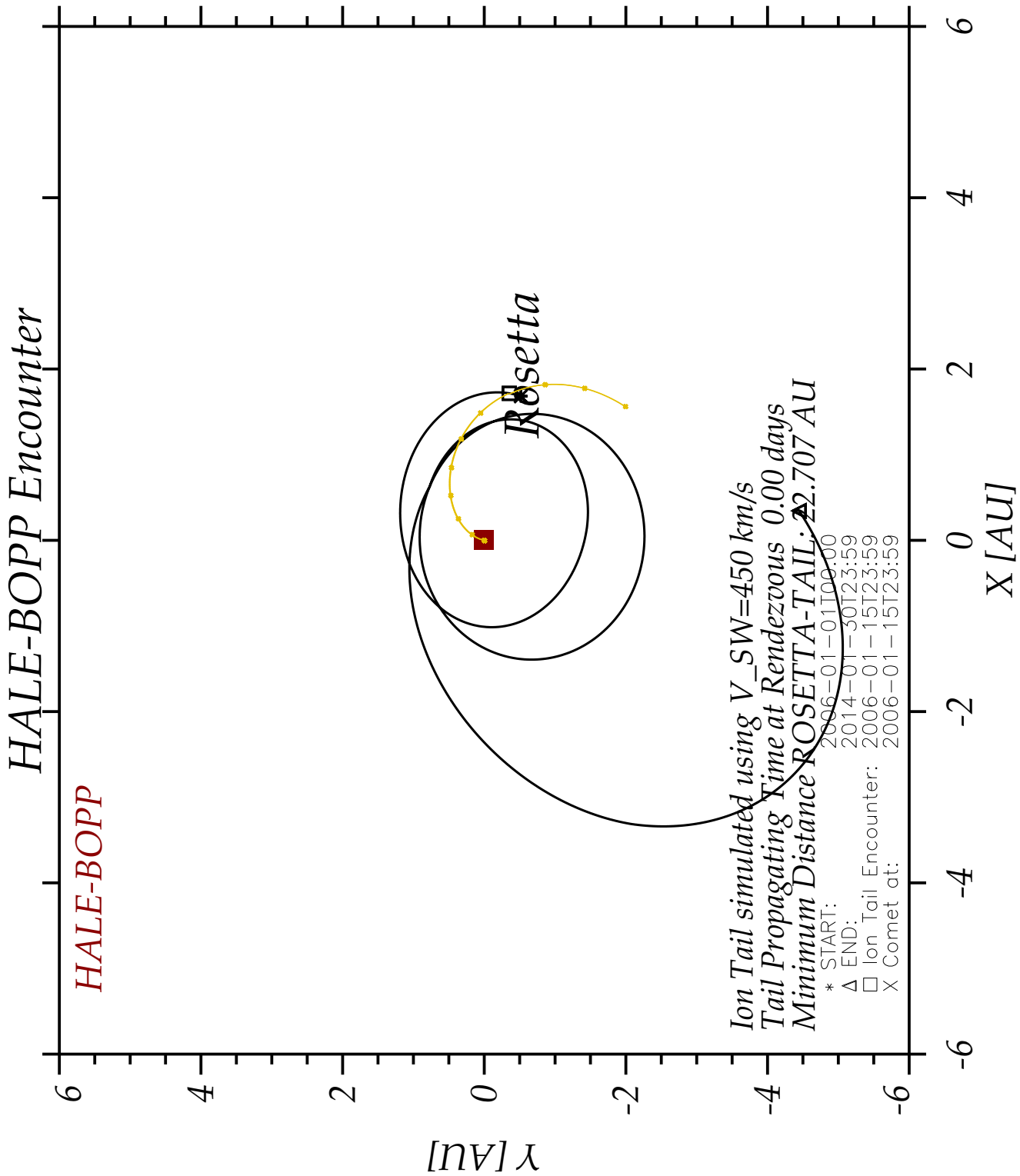


Figure 370: Overview: ROSETTA - HALE-BOPP

<p style="text-align: center;">R O S E T T A</p>	<p>Document: RO-IGEP-TR-0020 Issue: 1 Revision: 2</p>
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188 Comet C/1858DONATI

<p>Comet: C/1858DONATI</p>
<p>No Encounter below 0.2000AU</p>

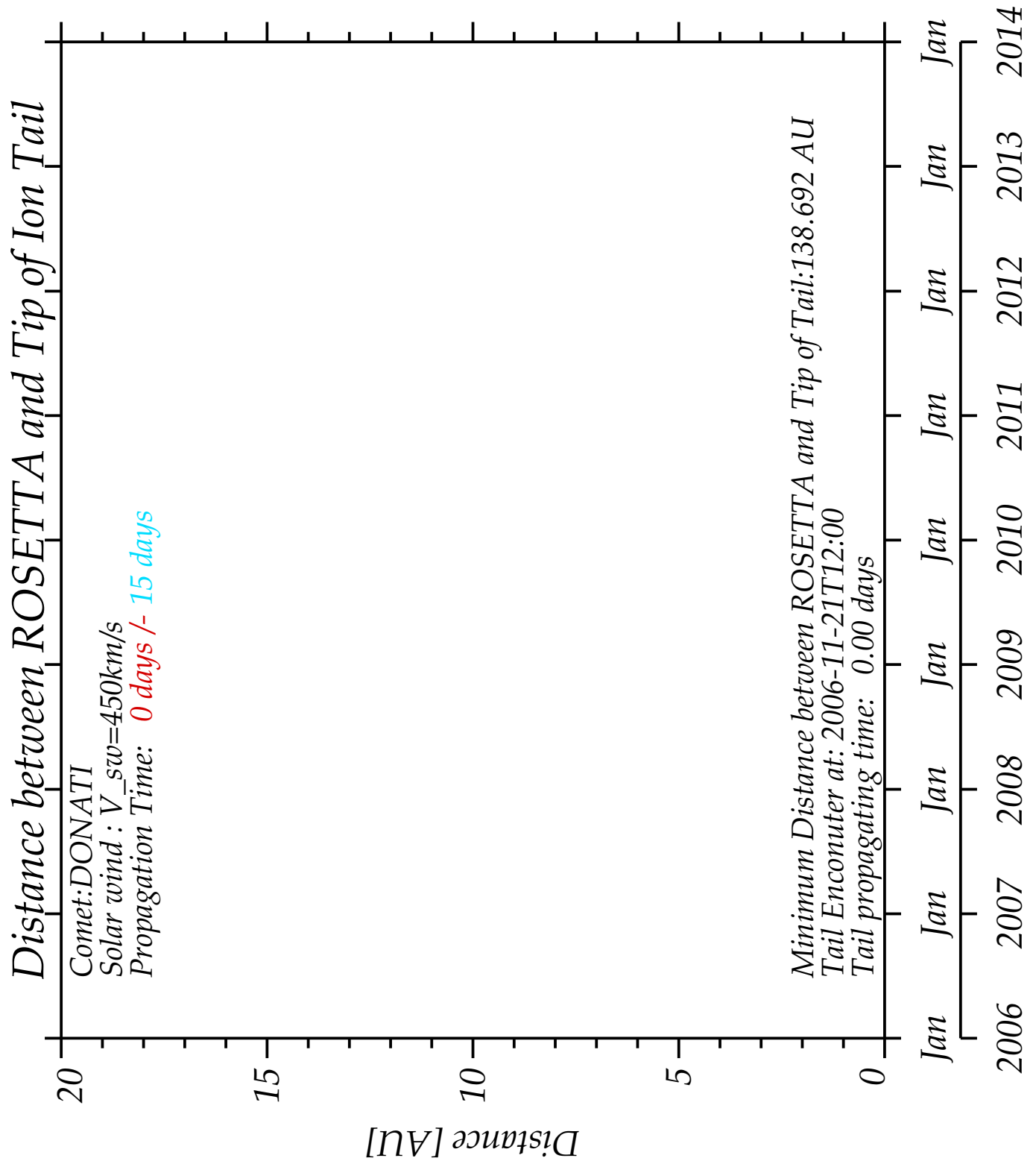


Figure 371: Minimum Distances: ROSETTA - DONATI

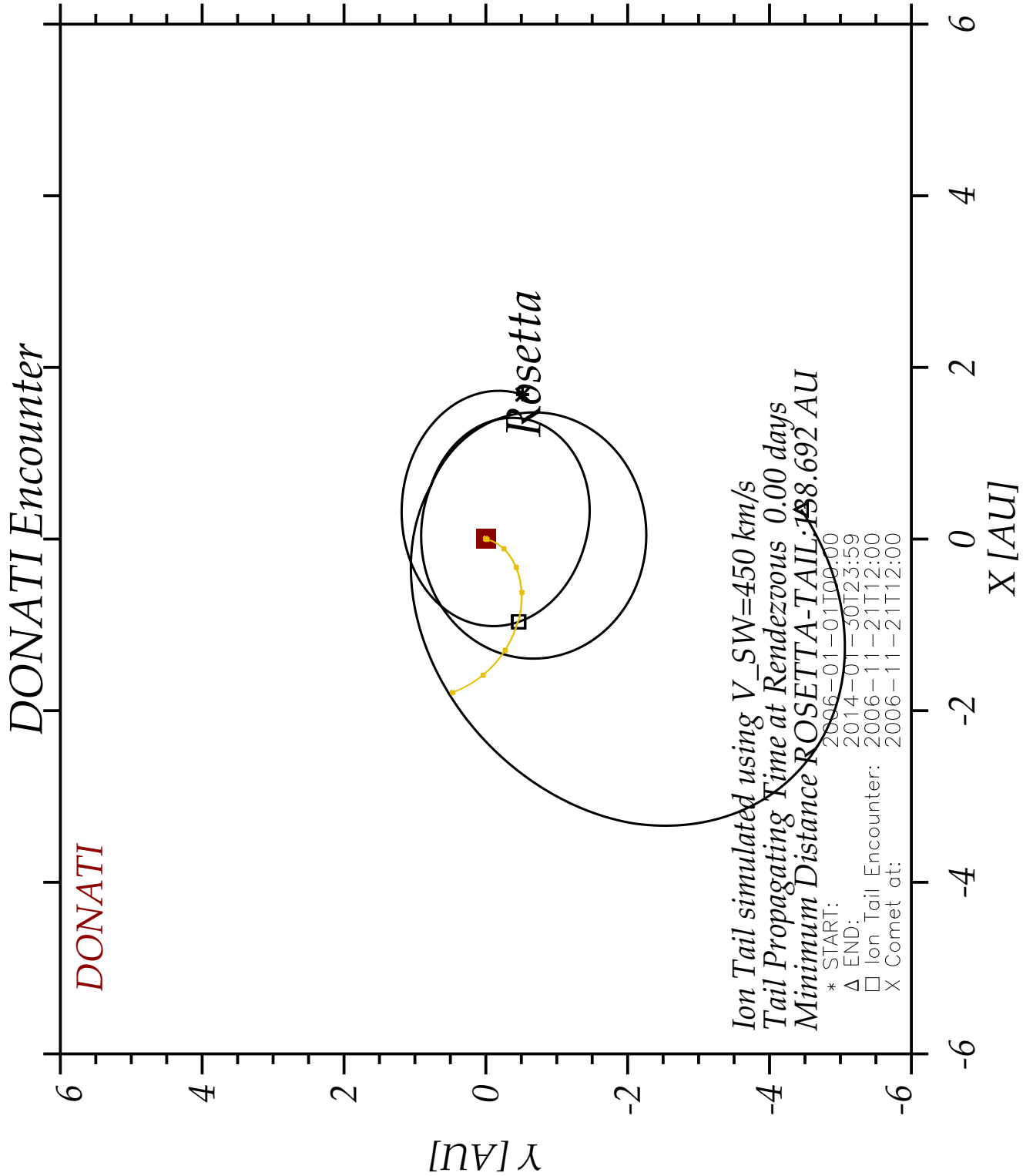


Figure 372: Overview: ROSETTA - DONATI

<p style="text-align: center;">R O S E T T A</p>	<p>Document: RO-IGEP-TR-0020 Issue: 1 Revision: 2 Date: 2006-10-25 Page: 560</p>
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189 Comet C/1762KLINKENBERG

<p>Comet: C/1762KLINKENBERG</p>
<p>No Encounter below 0.2000AU</p>

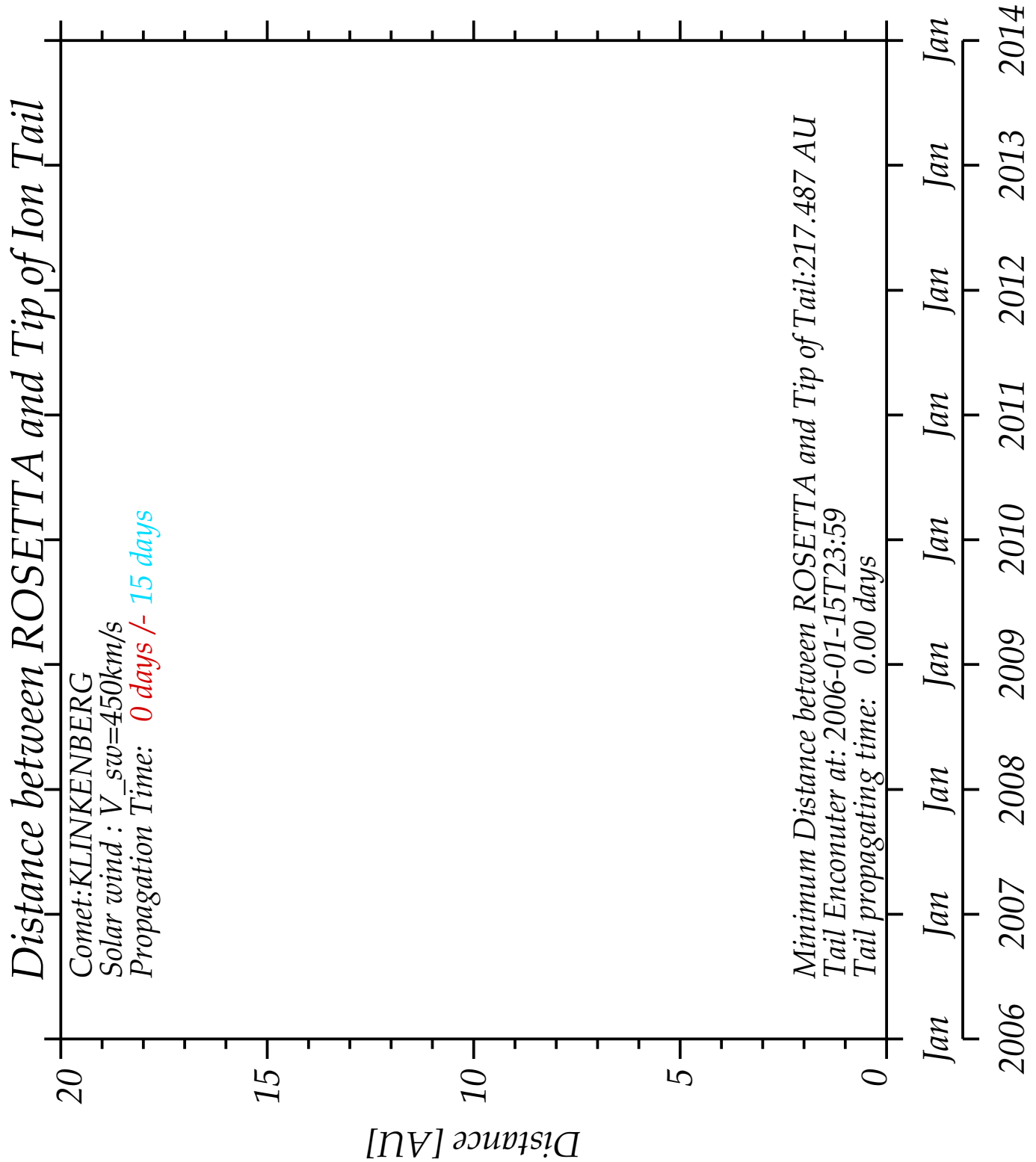


Figure 373: Minimum Distances: ROSETTA - KLINKENBERG

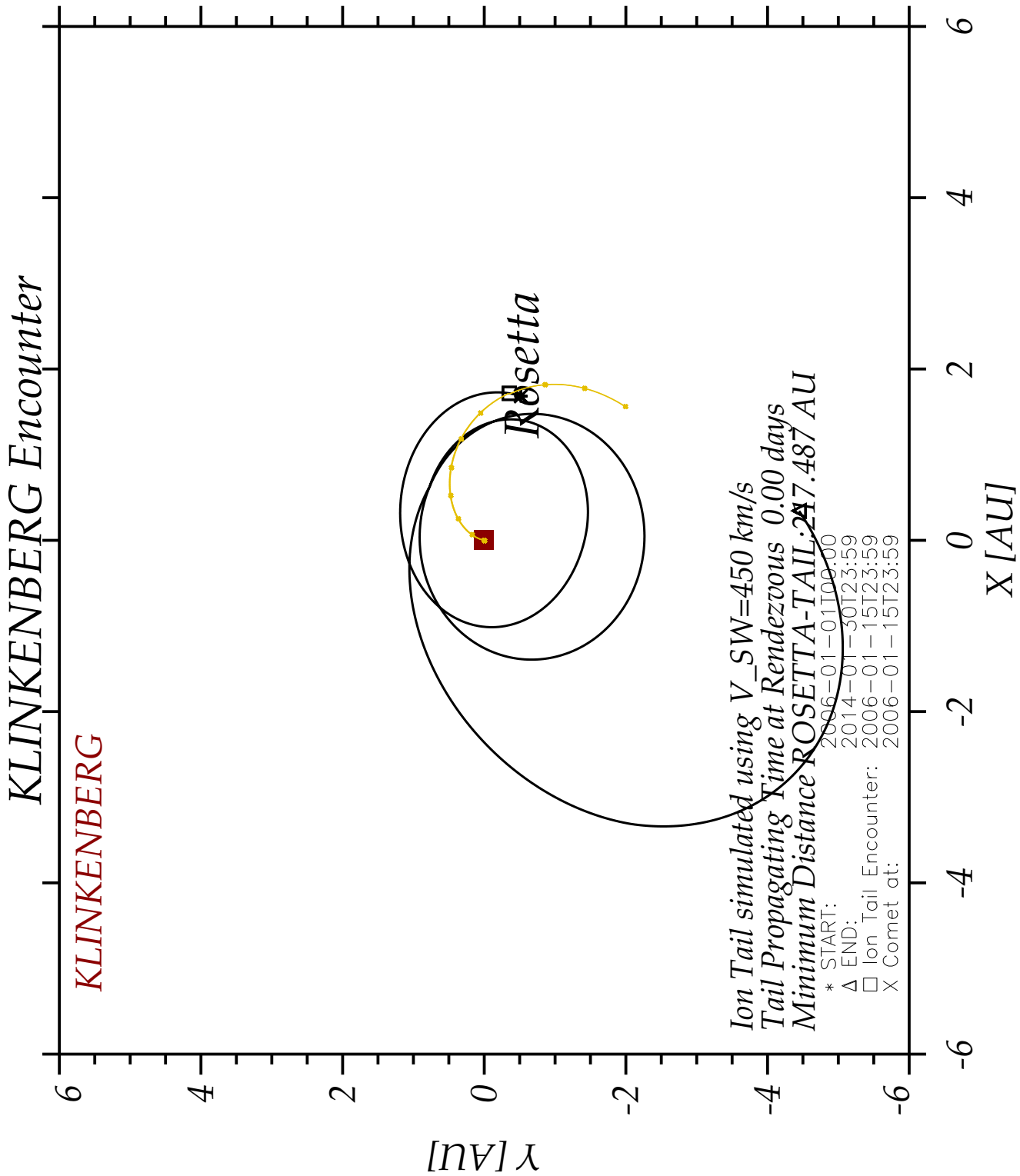


Figure 374: Overview: ROSETTA - KLINKENBERG

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190 Comet C/1995CAESAR

Comet:	C/1995CAESAR				
Date of Encounter:	2013-04-18T10:29				
Minimum Distance					
ROSETTA/Ion Tail:	0.1980				AU
Position of ROSETTA	-1.0790	-5.0546	-0.3293	5.1790	AU,[x,y,z],r
Position of COMET:	-0.2809	-2.0418	-0.2119	2.0719	AU,[x,y,z],r
Velocity of ROSETTA	8.18	0.71	-0.60	8.24	km/s,[vx,vy,vz],v
Velocity of COMET:	21.20	-4.95	-0.27	21.77	km/s,[vx,vy,vz],v
Tail Intersection Angle:	113.4				deg
Velocity of ROSETTA					
normal to Tail:	7.56				km/s
Proagting Time					
of Tail	11.960				days

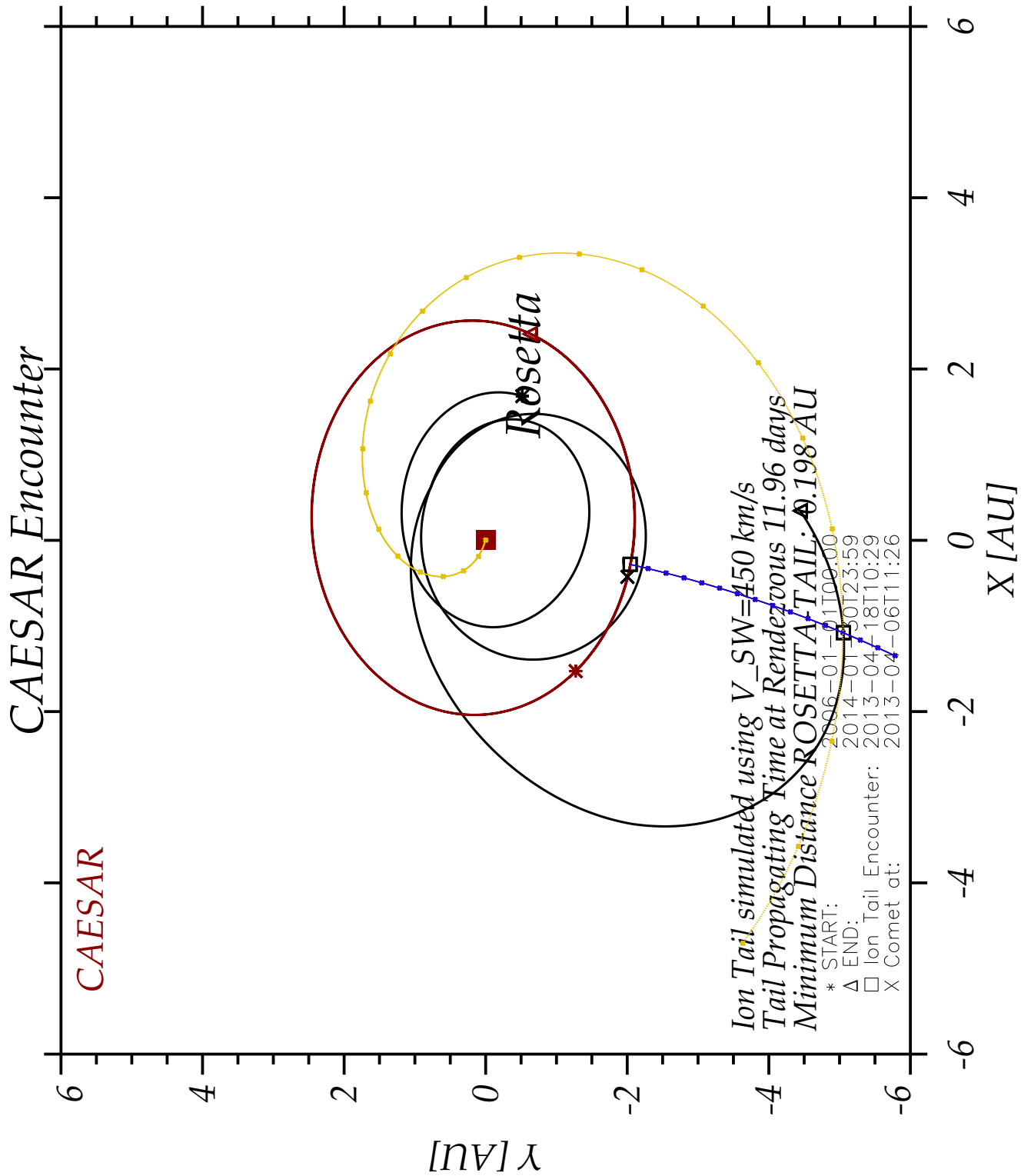


Figure 376: Overview: ROSETTA - CAESAR

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191 Comet C2004/BRADFIELD 2004

Comet: C2004/BRADFIELD 2004
No Encounter below 0.2000AU

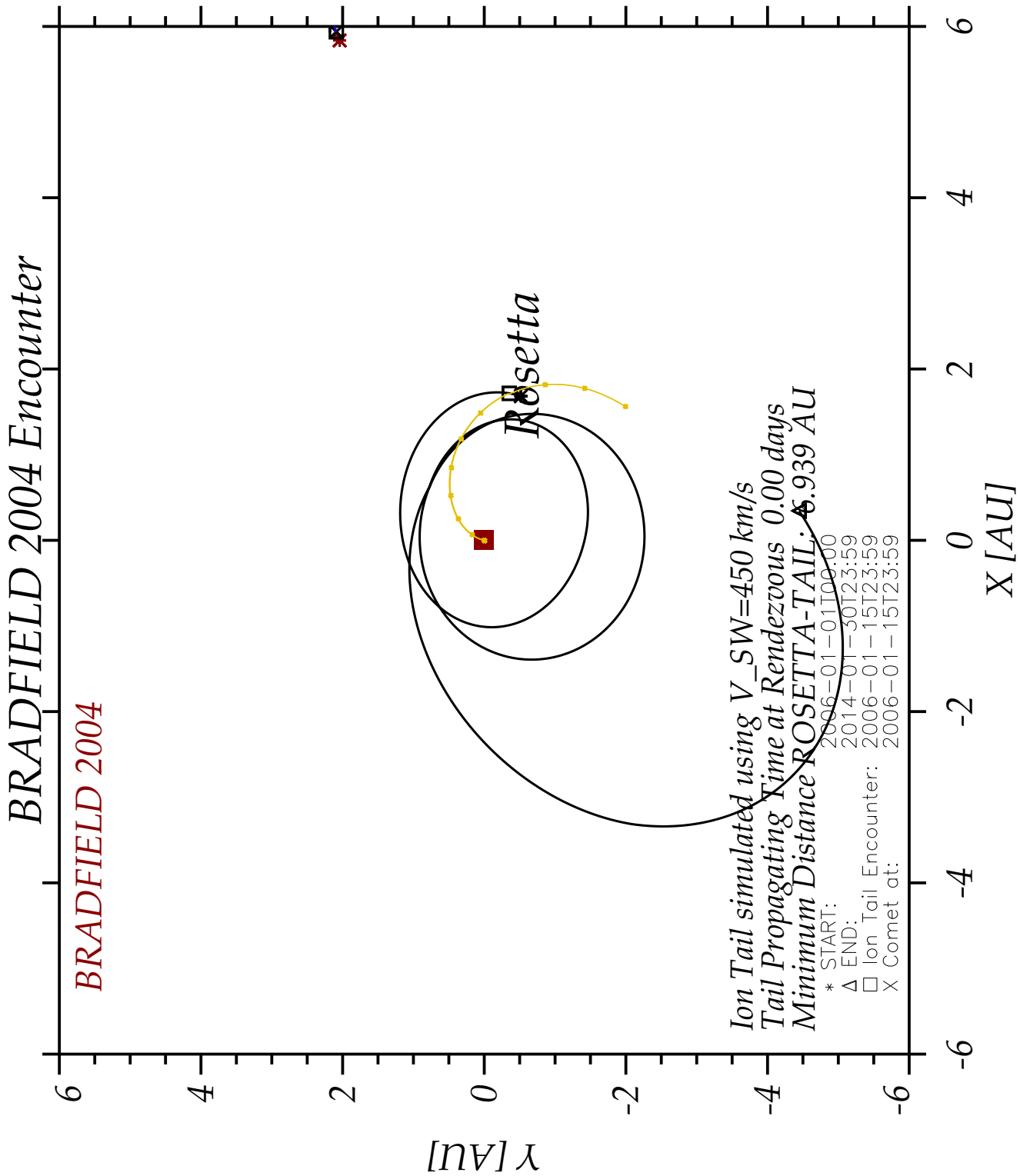


Figure 378: Overview: ROSETTA - BRADFIELD 2004

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192 Comet LINEAR2003O2

Comet: LINEAR2003O2
No Encounter below 0.2000AU

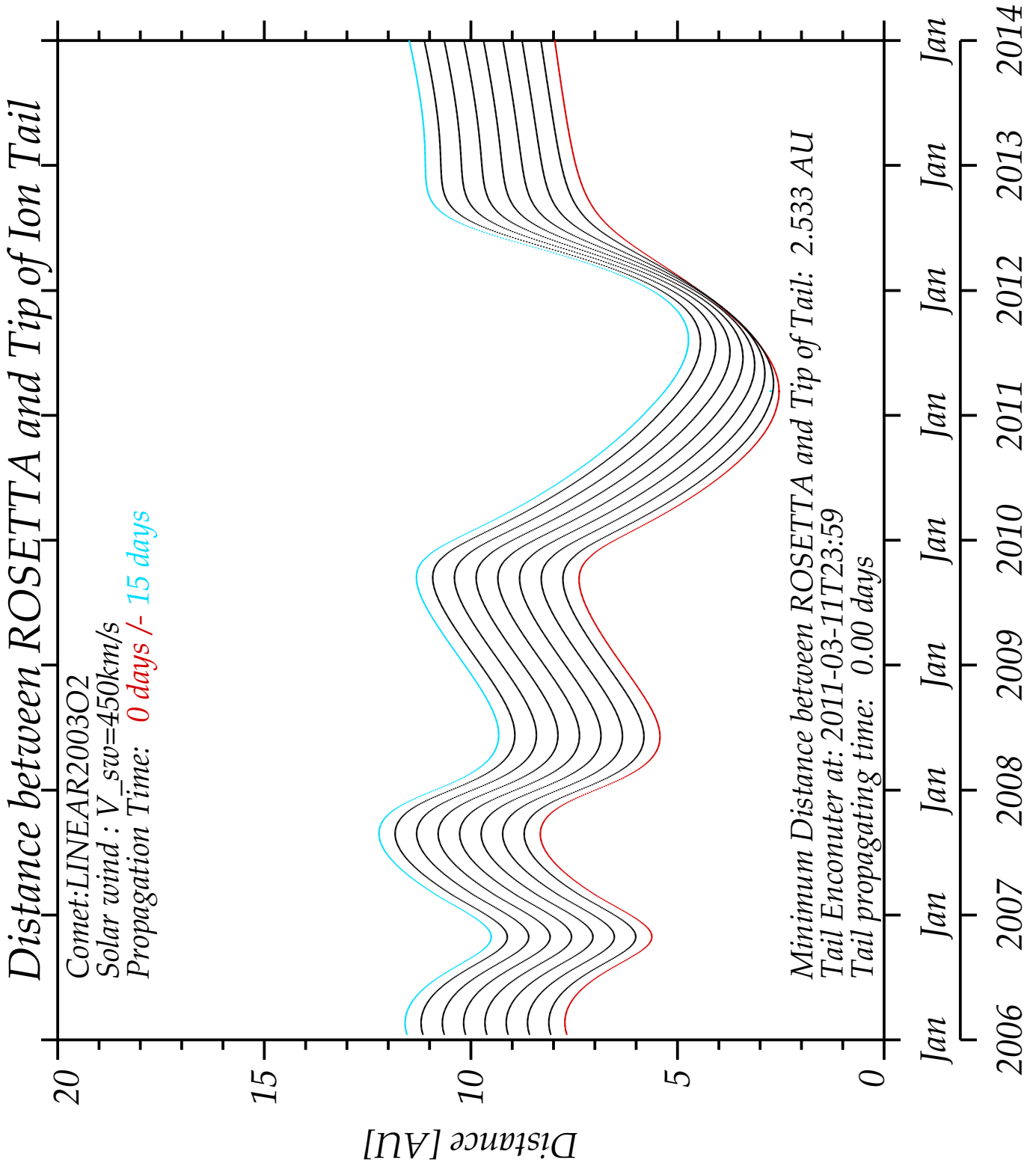


Figure 379: Minimum Distances: ROSETTA - LINEAR2003O2

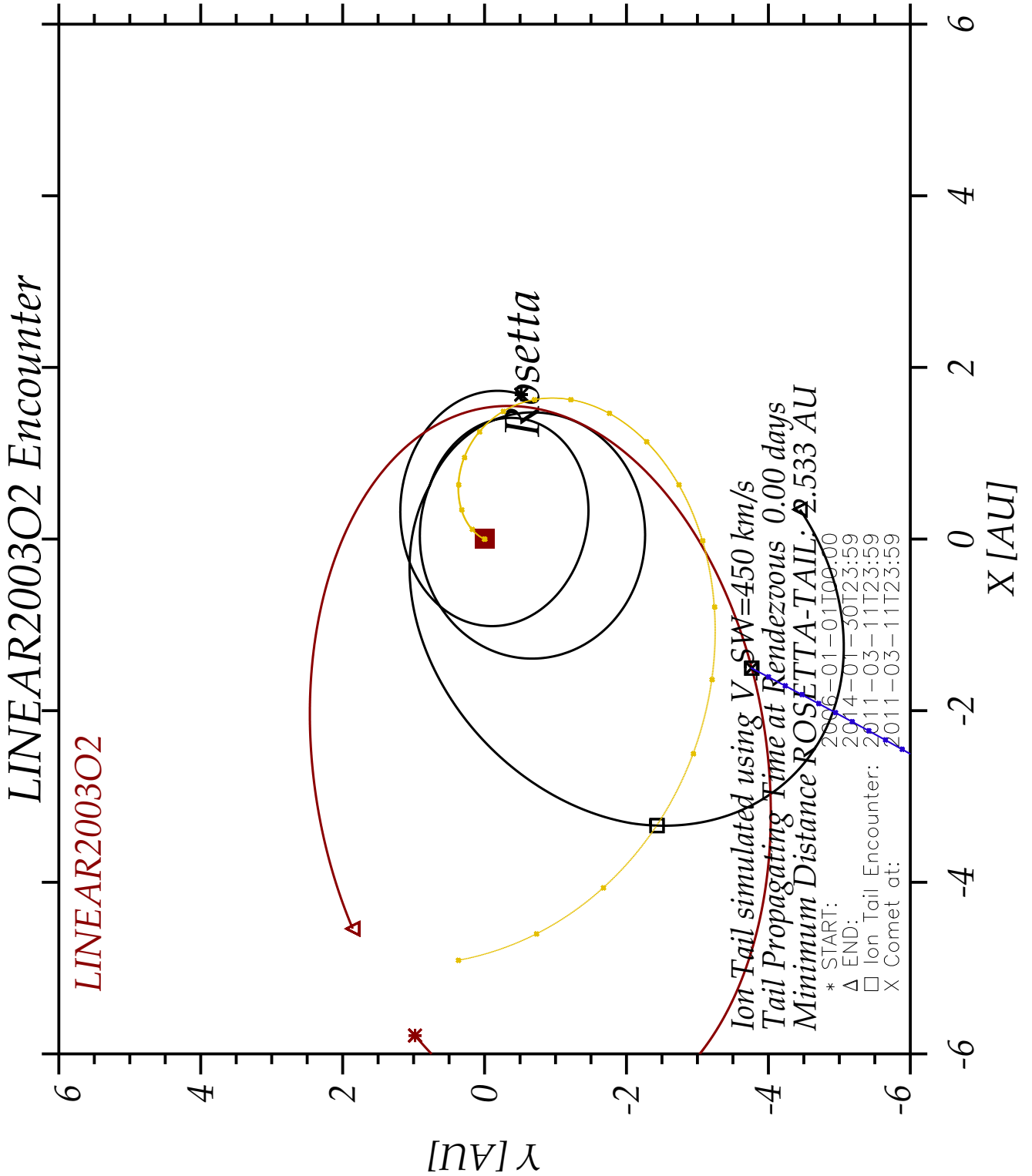


Figure 380: Overview: ROSETTA - LINEAR2003O2

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193 Comet SCOTTI2001X2

Comet: SCOTTI2001X2
No Encounter below 0.2000AU

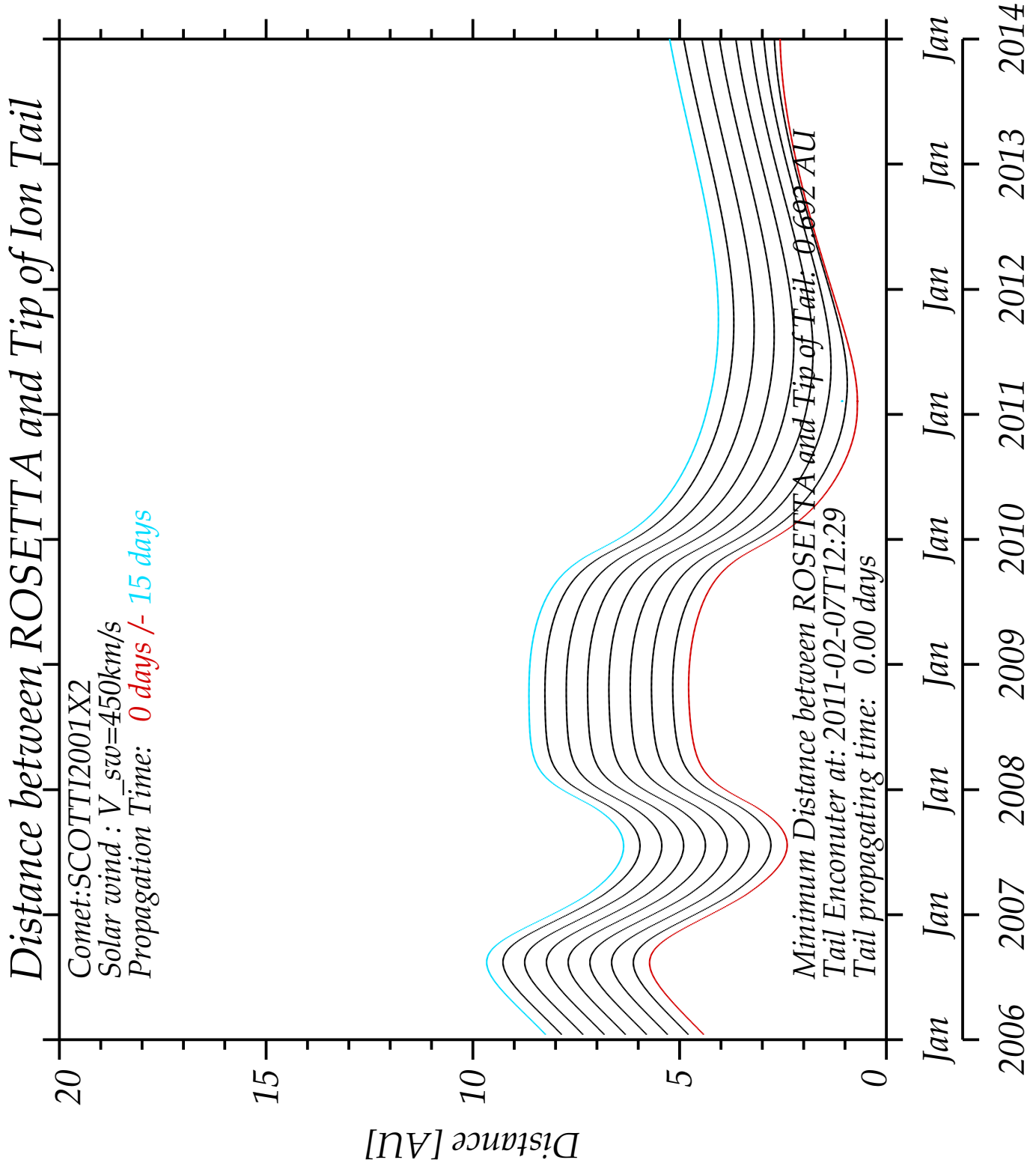


Figure 381: Minimum Distances: ROSETTA - SCOTTI2001X2

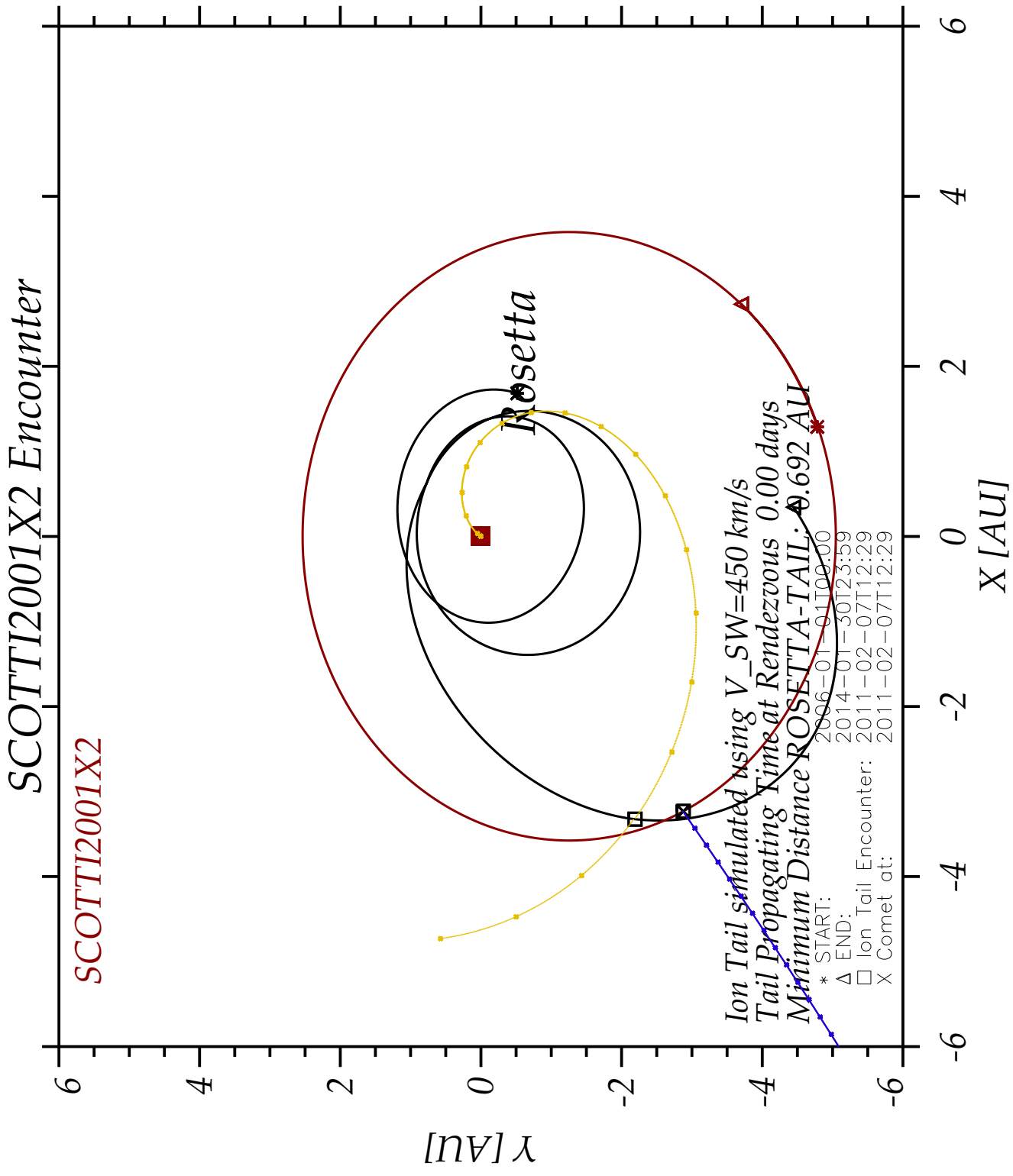


Figure 382: Overview: ROSETTA - SCOTTI2001X2

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194 Comet LINEAR2003HT15

Comet:	LINEAR2003HT15				
Date of Encounter:	2014-01-07T23:59				
Minimum Distance					
ROSETTA/Ion Tail:	0.1020				AU
Position of ROSETTA	0.2287	-4.5337	-0.3919	4.5563	AU,[x,y,z],r
Position of COMET:	0.1392	-3.2978	-0.3289	3.3171	AU,[x,y,z],r
Velocity of ROSETTA	8.64	6.34	-0.17	10.72	km/s,[vx,vy,vz],v
Velocity of COMET:	15.88	-4.44	-8.57	18.59	km/s,[vx,vy,vz],v
Tail Intersection Angle:	127.2				deg
Velocity of ROSETTA					
normal to Tail:	8.53				km/s
Progagting Time					
of Tail	4.790				days

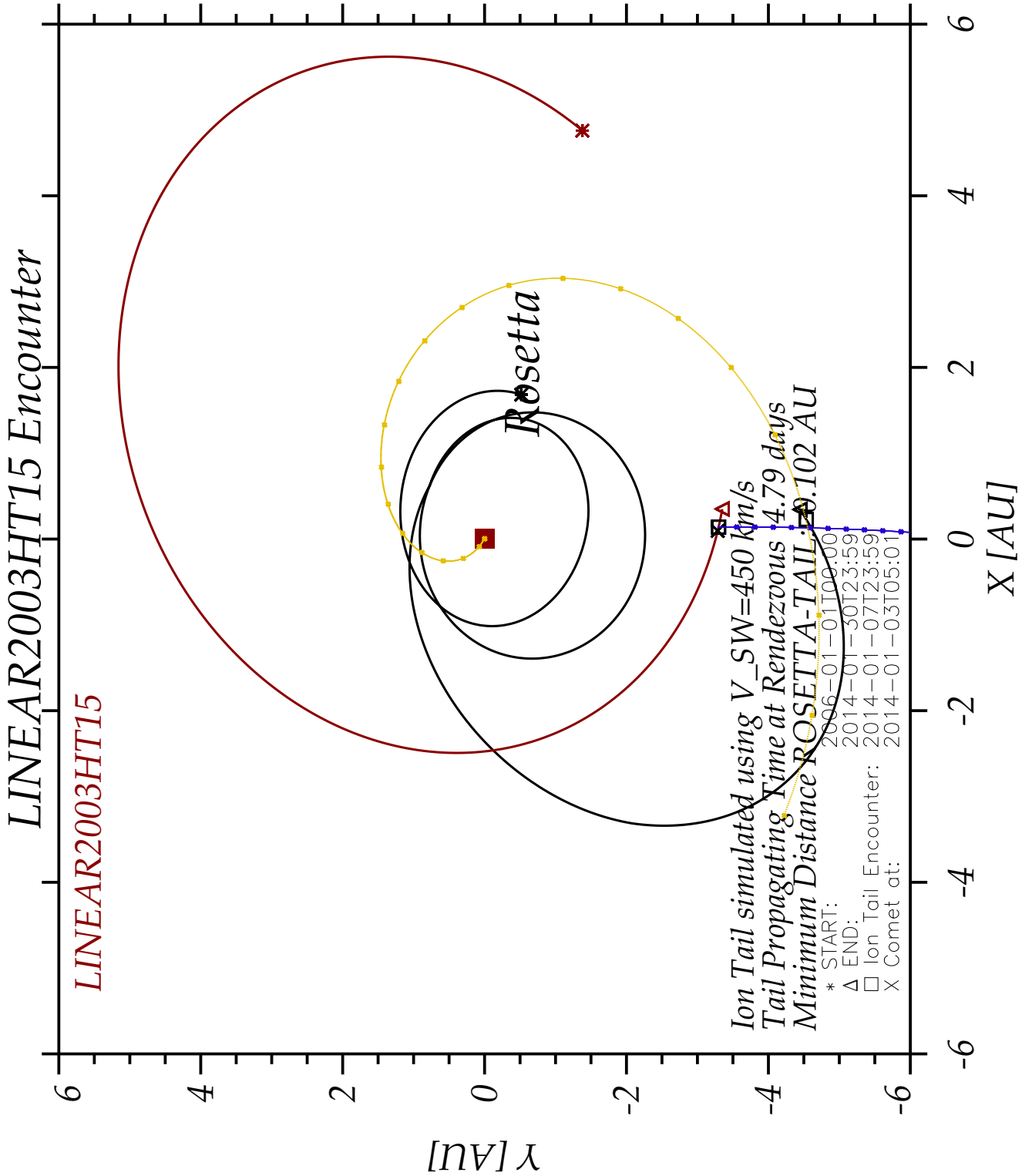


Figure 384: Overview: ROSETTA - LINEAR2003HT15

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195 Comet CATALINA-LINEAR

Comet:	CATALINA-LINEAR				
Date of Encounter:	2011-03-17T21:59				
Minimum Distance					
ROSETTA/Ion Tail:	0.0440				AU
Position of ROSETTA	-3.3402	-2.4730	0.0659	4.1566	AU,[x,y,z],r
Position of COMET:	-1.9232	-1.5239	0.0559	2.4544	AU,[x,y,z],r
Velocity of ROSETTA	-0.19	-12.31	-1.00	12.35	km/s,[vx,vy,vz],v
Velocity of COMET:	5.33	-21.12	-2.02	21.88	km/s,[vx,vy,vz],v
Tail Intersection Angle:	57.3				deg
Velocity of ROSETTA					
normal to Tail:	10.40				km/s
Proagting Time					
of Tail	6.650				days

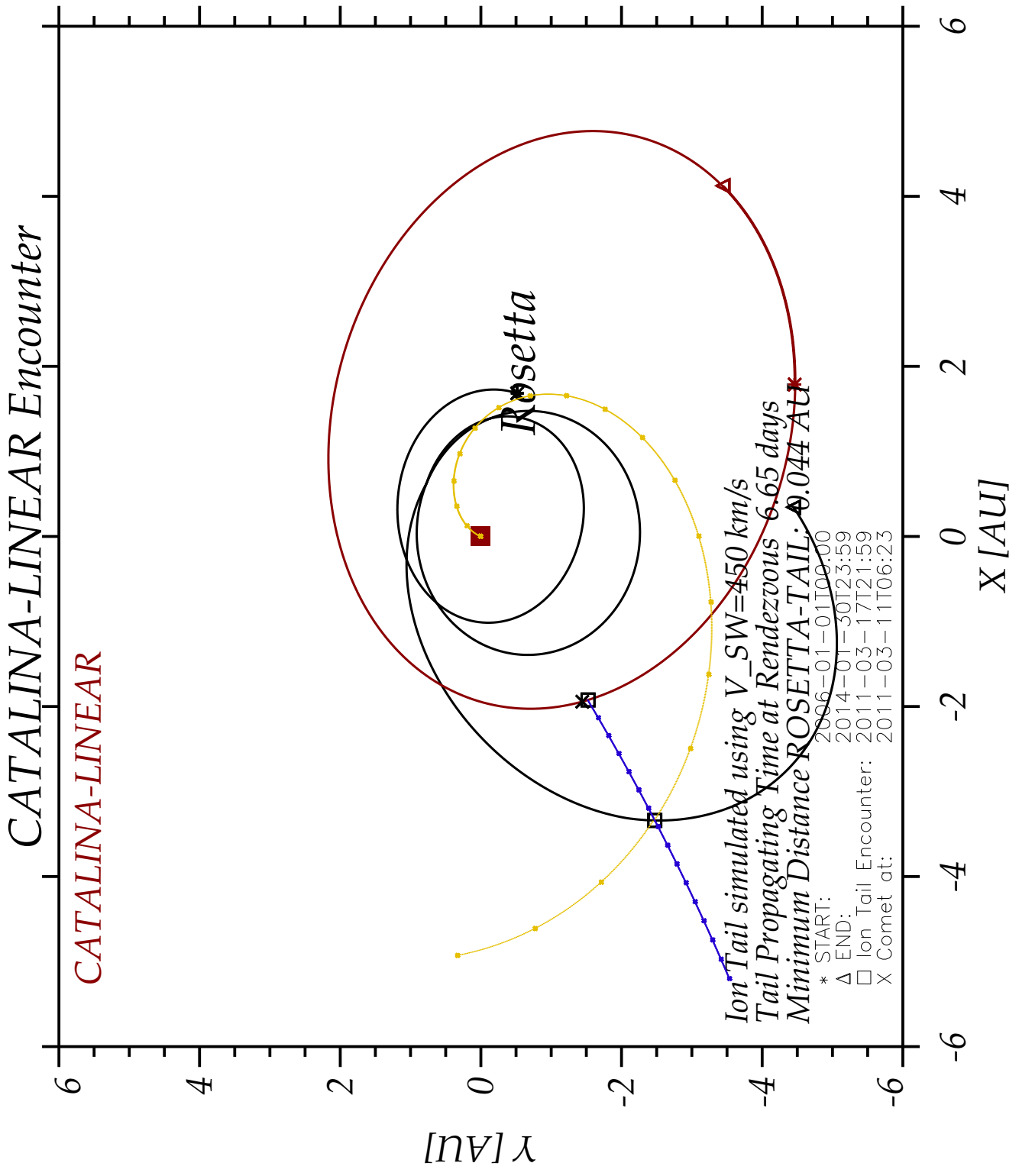


Figure 386: Overview: ROSETTA - CATALINA-LINEAR

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196 Comet C2004/MACHHOLZ 2004

Comet: C2004/MACHHOLZ 2004
No Encounter below 0.2000AU

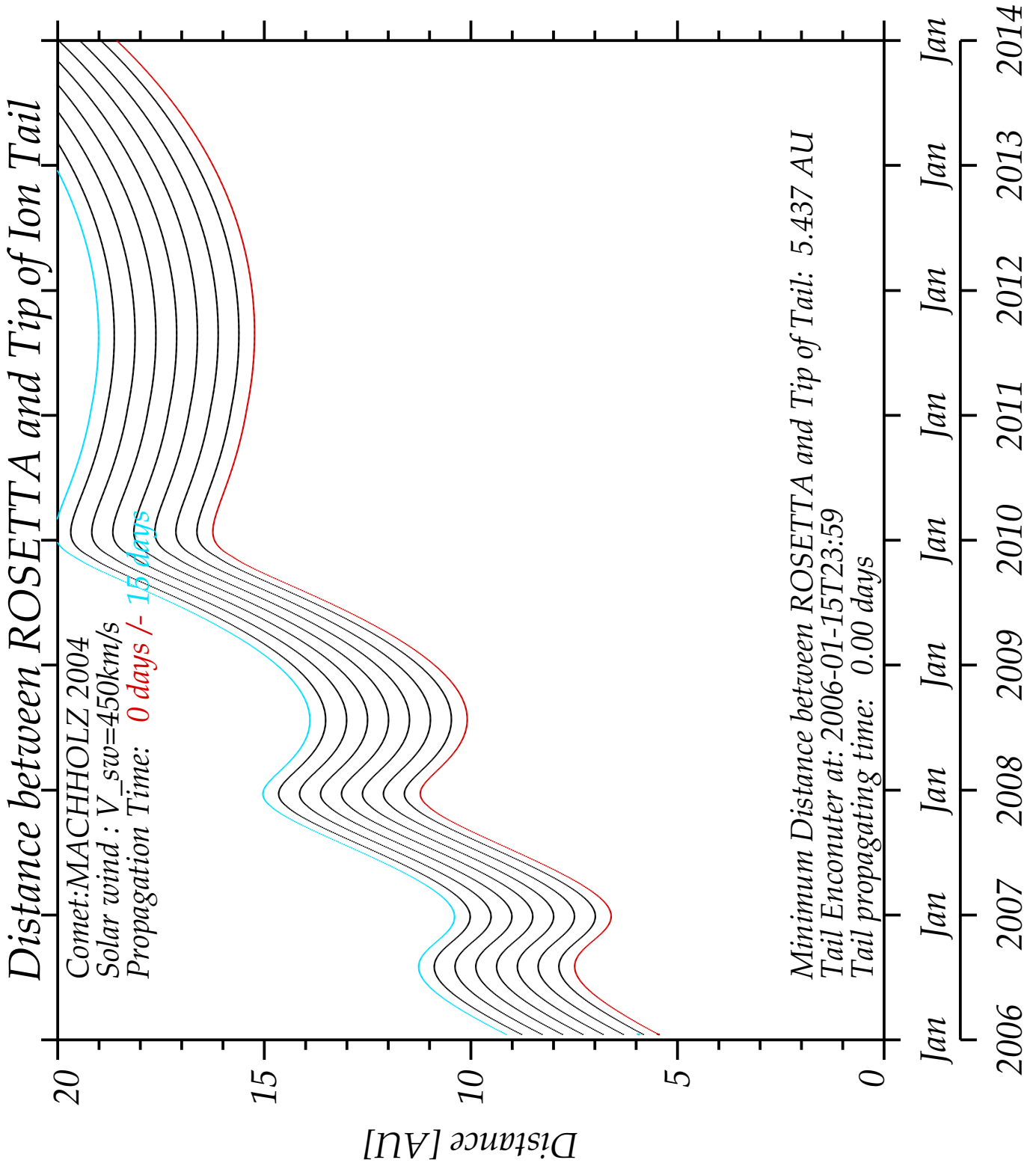


Figure 387: Minimum Distances: ROSETTA - MACHHOLZ 2004

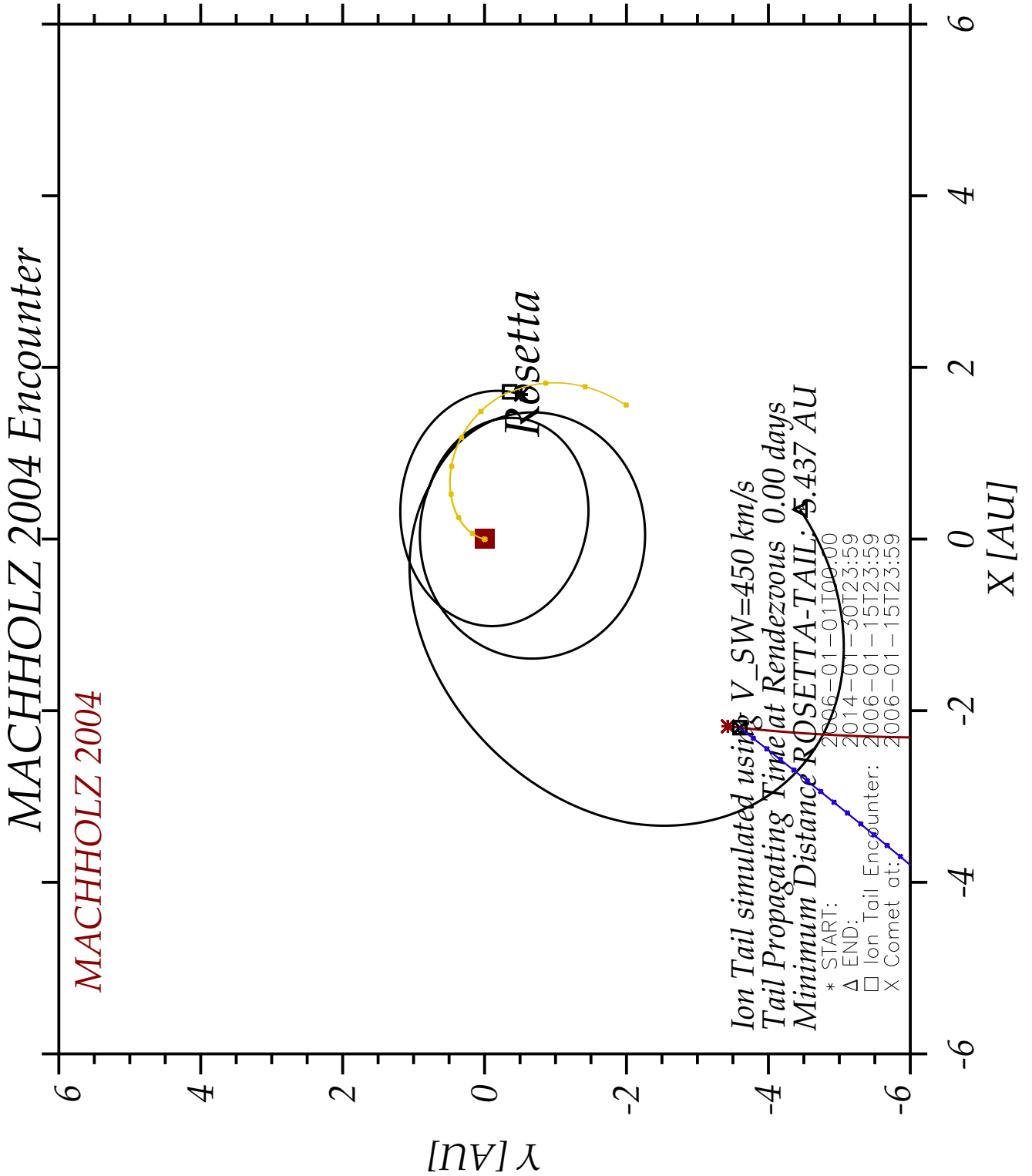


Figure 388: Overview: ROSETTA - MACHHOLZ 2004

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197 Comet MUELLER1998U2

Comet: MUELLER1998U2
No Encounter below 0.2000AU

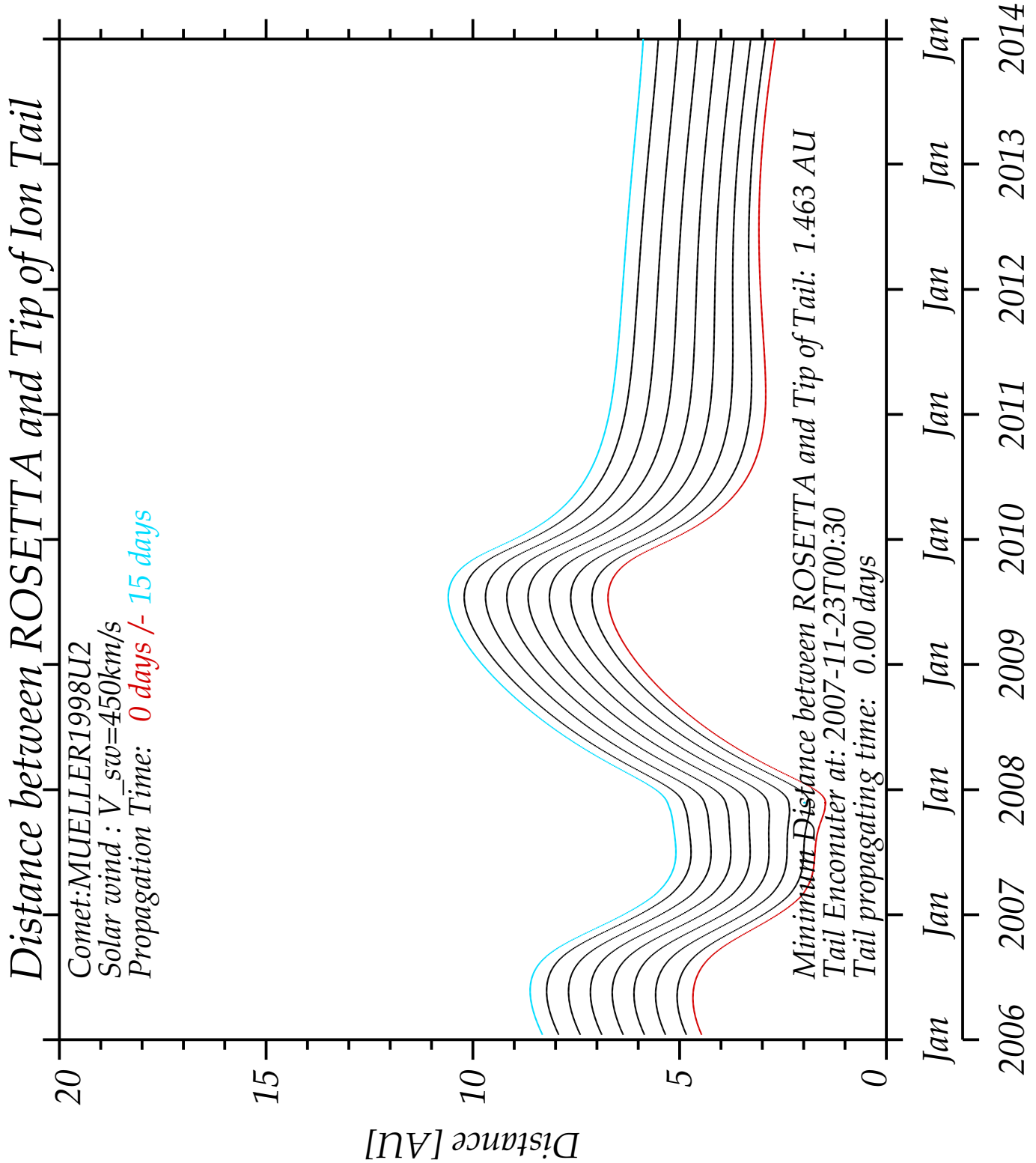


Figure 389: Minimum Distances: ROSETTA - MUELLER1998U2

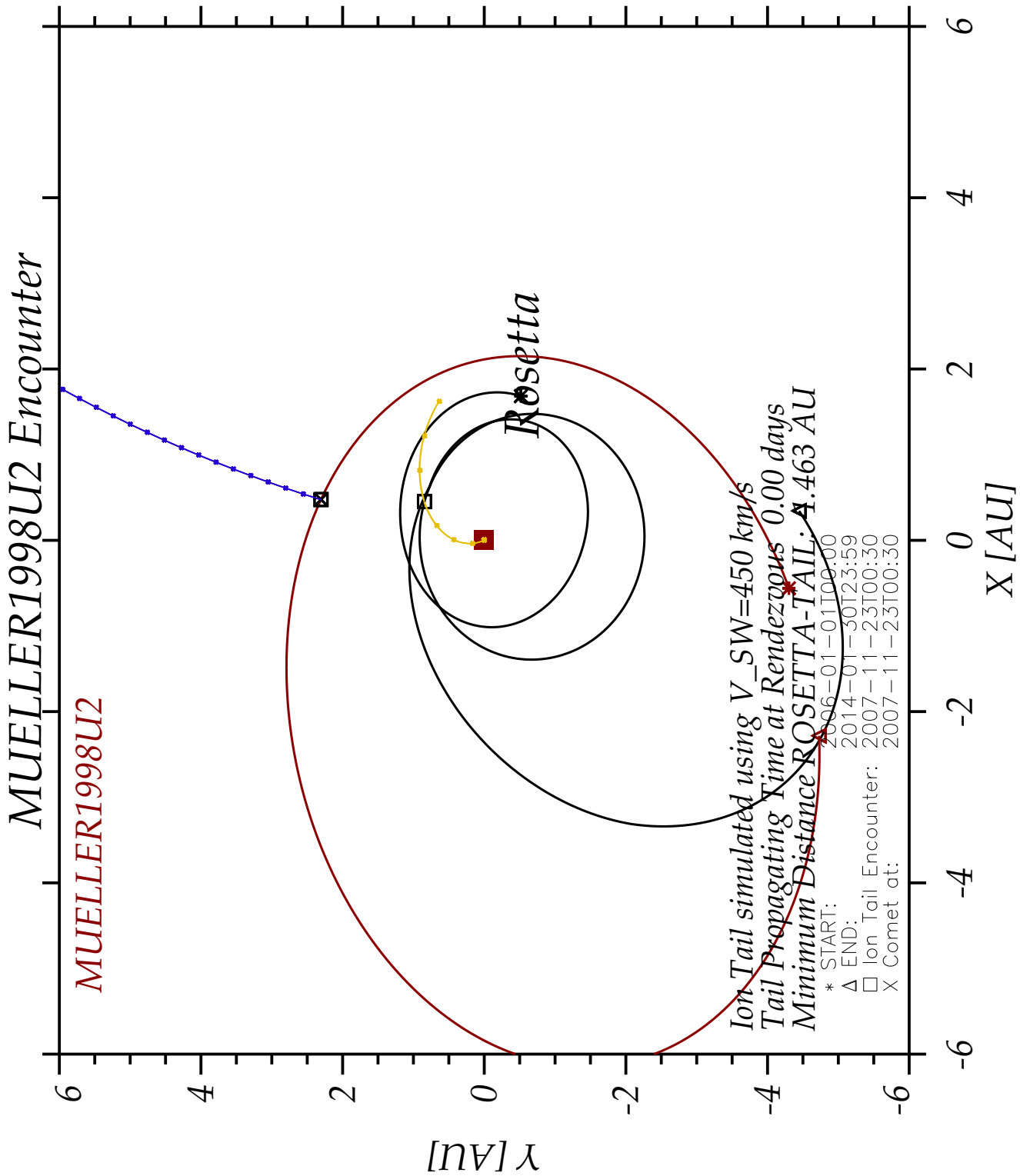


Figure 390: Overview: ROSETTA - MUELLER1998U2