

PPP-RTK & Open Standards Symposium

# Introduction to Real-Time Kinematic Library (RTKLIB) Usage



Tokyo Univ. of Marine Science and Technology

**Tomoji TAKASU**

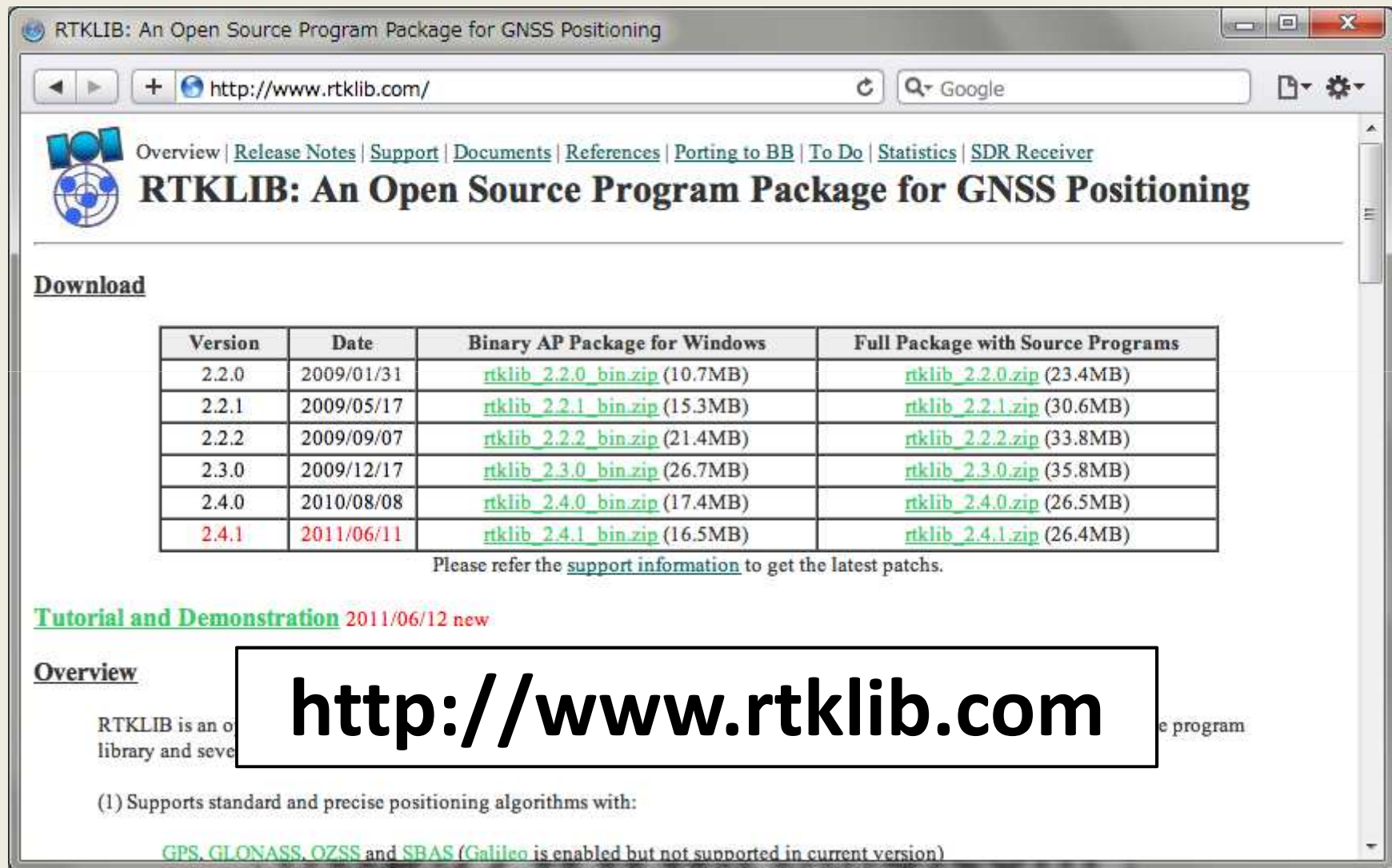
March 12-13,14, 2012, @Frankfurt am Main, Germany

# Outline of Tutorial

---

- **Overview**
- **Post Processing Analysis Scenario**
  - RTKCONV - RTKPOST - RTKPLOT
  - Single, Kinematic, PPP
- **Real-time Positioning Scenario**
  - STRSVR - RTKNAVI - RTKPLOT
  - RTK, PPP
- **Advanced Usages**

# How To Get It?



RTKLIB: An Open Source Program Package for GNSS Positioning

Overview | [Release Notes](#) | [Support](#) | [Documents](#) | [References](#) | [Porting to BB](#) | [To Do](#) | [Statistics](#) | [SDR Receiver](#)

## RTKLIB: An Open Source Program Package for GNSS Positioning

### Download

Version	Date	Binary AP Package for Windows	Full Package with Source Programs
2.2.0	2009/01/31	<a href="#">rtklib_2.2.0_bin.zip</a> (10.7MB)	<a href="#">rtklib_2.2.0.zip</a> (23.4MB)
2.2.1	2009/05/17	<a href="#">rtklib_2.2.1_bin.zip</a> (15.3MB)	<a href="#">rtklib_2.2.1.zip</a> (30.6MB)
2.2.2	2009/09/07	<a href="#">rtklib_2.2.2_bin.zip</a> (21.4MB)	<a href="#">rtklib_2.2.2.zip</a> (33.8MB)
2.3.0	2009/12/17	<a href="#">rtklib_2.3.0_bin.zip</a> (26.7MB)	<a href="#">rtklib_2.3.0.zip</a> (35.8MB)
2.4.0	2010/08/08	<a href="#">rtklib_2.4.0_bin.zip</a> (17.4MB)	<a href="#">rtklib_2.4.0.zip</a> (26.5MB)
2.4.1	2011/06/11	<a href="#">rtklib_2.4.1_bin.zip</a> (16.5MB)	<a href="#">rtklib_2.4.1.zip</a> (26.4MB)

Please refer the [support information](#) to get the latest patches.

[Tutorial and Demonstration](#) 2011/06/12 new

### Overview

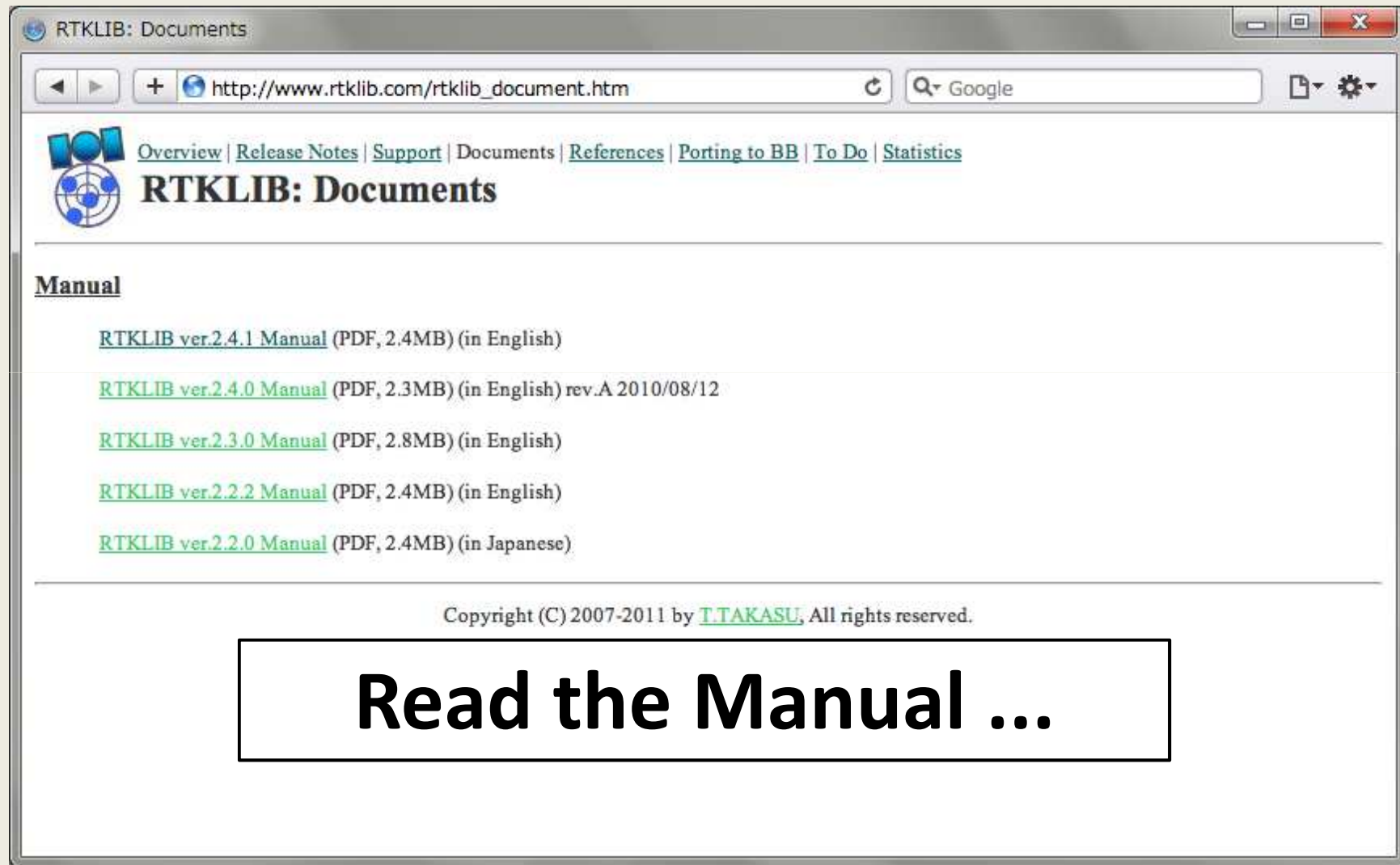
RTKLIB is an open source program library and server program

(1) Supports standard and precise positioning algorithms with:

[GPS](#), [GLONASS](#), [OZSS](#) and [SBAS](#) ([Galileo](#) is enabled but not supported in current version)

# http://www.rtklib.com

# How To Use It?



RTKLIB: Documents

http://www.rtklib.com/rtklib\_document.htm

Overview | [Release Notes](#) | [Support](#) | Documents | [References](#) | [Porting to BB](#) | [To Do](#) | [Statistics](#)

## RTKLIB: Documents

---

### Manual

- [RTKLIB ver.2.4.1 Manual](#) (PDF, 2.4MB) (in English)
- [RTKLIB ver.2.4.0 Manual](#) (PDF, 2.3MB) (in English) rev.A 2010/08/12
- [RTKLIB ver.2.3.0 Manual](#) (PDF, 2.8MB) (in English)
- [RTKLIB ver.2.2.2 Manual](#) (PDF, 2.4MB) (in English)
- [RTKLIB ver.2.2.0 Manual](#) (PDF, 2.4MB) (in Japanese)

---

Copyright (C) 2007-2011 by [T.TAKASU](#), All rights reserved.

# Read the Manual ...

# What Can I Do with It?

---

- **If you are a programmer:**
  - Everything
  - Write your codes and link them to RTKLIB
- **If you are not a programmer or too busy:**
  - Analyze your GNSS data
  - Get Real-time Position of your GNSS receiver

# Why I need It with my Receiver?

- **Your receiver may have functions to get the real-time position but:**
  - If no RTK option
  - If no long-baseline RTK function
  - If no real-time PPP function with IGS RT products
  - If you need how to compute the position
  - If you want to try your own algorithm

**Try RTKLIB with your receiver**