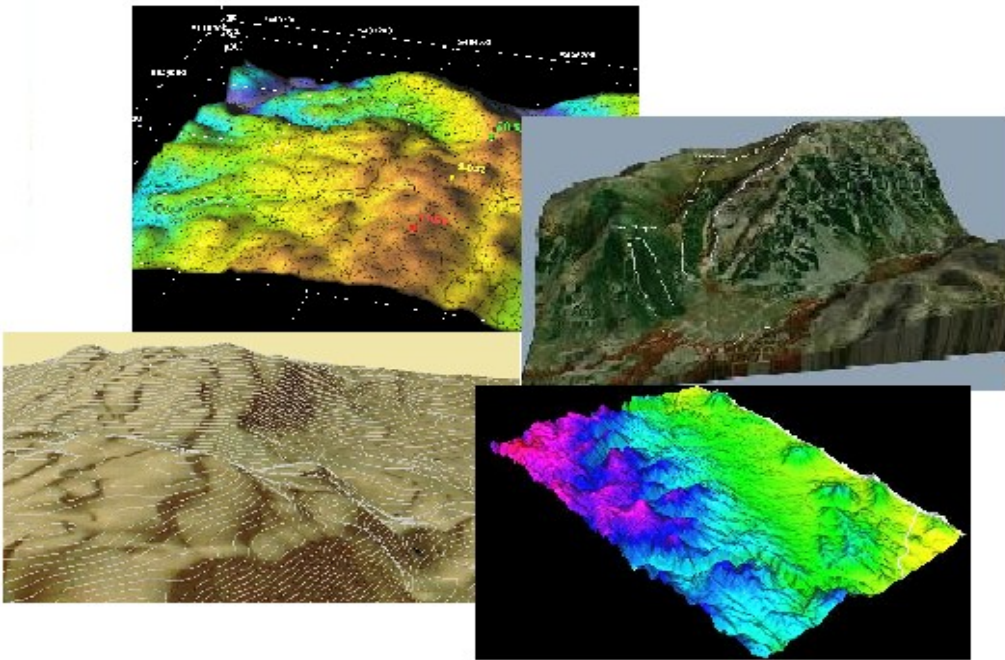# Sirius Software

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Ayşe Turan
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THE STRIDER

[Software Specifications & Release Notes]
7.6.2009

Contents

1. INTRODUCTION

Mountain climbing is one of the most popular activities around the world. Although the idea of reaching a peak of a mountain attracts many people, it is also very risky activity. It includes many potential dangers like weather, falling rocks or avalanche, equipment failure, etc. To minimize the risks and potential dangers and provide a safe environment to the mountaineers, the necessary precautions should be taken and an activity plan should be well prepared. Many things like weather and terrain conditions, equipment planning, experience and endurance of the team members should be considered simultaneously.

We, as Sirius Software, has developed Strider, which is a software that provides a useful environment for mountaineers and mountaineering clubs for planning their climbing activities. It has many kind features that supply mountaineers' needs and reduce their burden when preparing an activity. Strider has a user-friendly Graphical User Interface, a Geokit based GIS features, well designed routing algorithm on maps.

2. FEATURES

Strider has the following capabilities:

- Climber Management
    - Add climbers to the system
    - Update climber's information
    - Remove climbers from the system
    - Specify participant climbers
    - View Participant climbers' information
    - Remove participant climbers without removing climber from the system
    - Update participant climber's information

- Equipment Management
    - Add new equipment to the system
    - Remove equipments
    - Update equipments' information
- Weather Management
    - Take weather from Internet
    - Set weather information manually
- 2D/3D Visualization Operations
    - Add terrain data to display in 2D
    - Mark coordinanates on 2D
    - Save 2D visualization
    - Visualize terrain in 3D
- Project Management
    - Open a new project
    - Save project
    - Open an existing project
- Activity Plan Management
    - See equipment, food and camp plan
    - Seeing route plan
    - Report activity plan
- Simulation Operations
    - Simulate Route on 3D
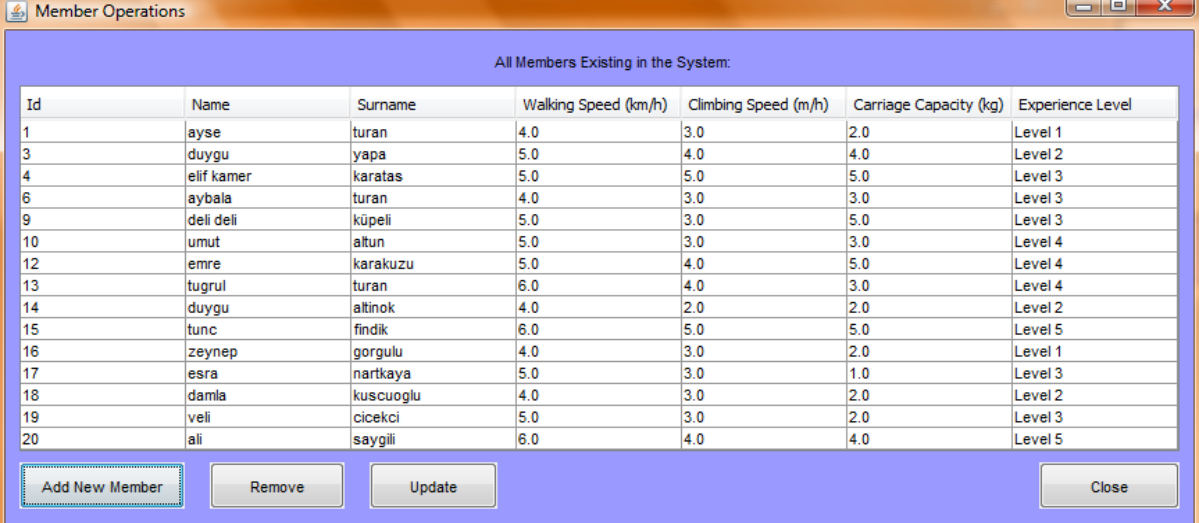
3. TEST RESULTS

All tests specified in Test Specification Report are performed one by one. All problems faced during the tests are solved. Now, Strider is running without errors.

With respect to our test experiences, Strider works best under below system features;

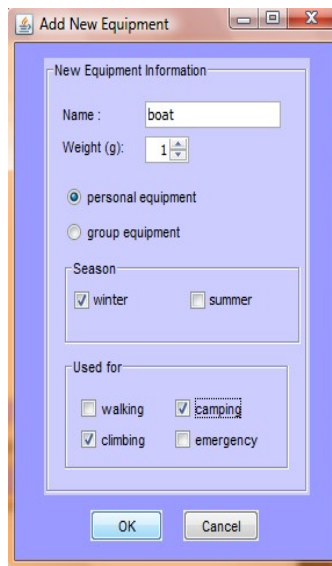- Minimum 512 Mb RAM.
- 3D Graphics card
- Core duo processor.

4. SCREENSHOTS

Id	Name	Surname	Walking Speed (km/h)	Climbing Speed (m/h)	Carriage Capacity (kg)	Experience Level
1	ayse	turan	4.0	3.0	2.0	Level 1
3	duygu	yapa	5.0	4.0	4.0	Level 2
4	elif kamer	karatas	5.0	5.0	5.0	Level 3
6	aybala	turan	4.0	3.0	3.0	Level 3
9	deli deli	küpeli	5.0	3.0	5.0	Level 3
10	umut	altun	5.0	3.0	3.0	Level 4
12	emre	karakuzu	5.0	4.0	5.0	Level 4
13	tugrul	turan	6.0	4.0	3.0	Level 4
14	duygu	altinok	4.0	2.0	2.0	Level 2
15	tunc	findik	6.0	5.0	5.0	Level 5
16	zeynep	gorgulu	4.0	3.0	2.0	Level 1
17	esra	nartkaya	5.0	3.0	1.0	Level 3
18	damla	kuscuoglu	4.0	3.0	2.0	Level 2
19	veli	cicekci	5.0	3.0	2.0	Level 3
20	ali	saygili	6.0	4.0	4.0	Level 5

Figure 1. Member Operations Window
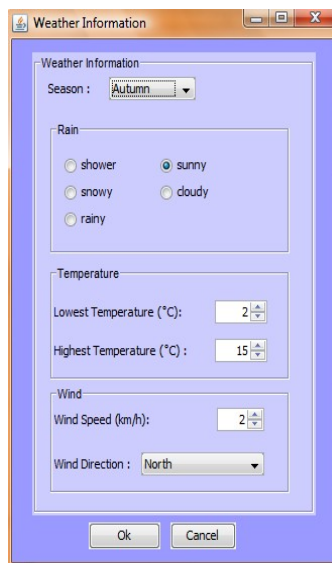
Figure 2. Adding New Equipment

Figure 3. Weather Information
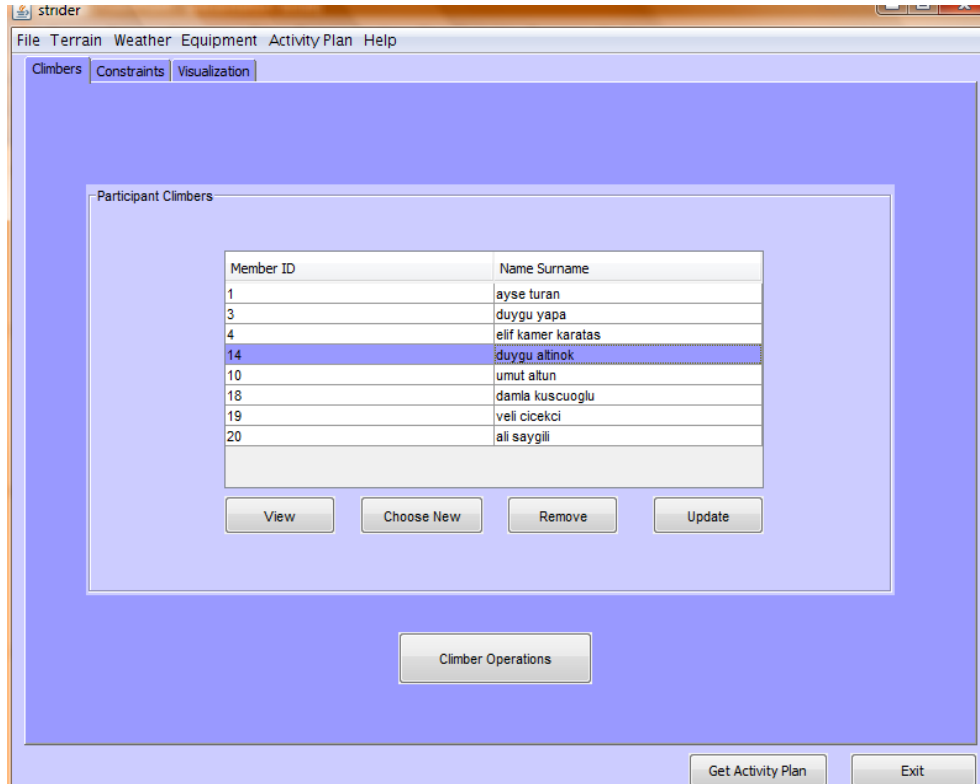
Figure 4. Participating Climbers Window
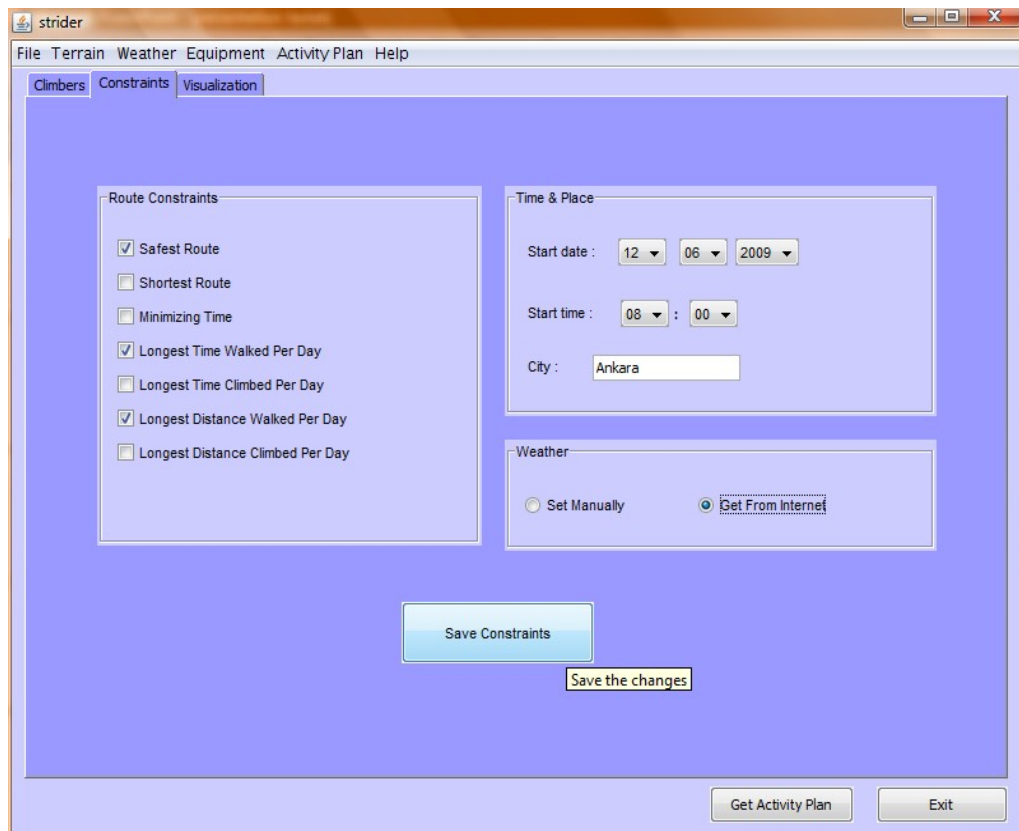
Figure 5. Constraints Tab
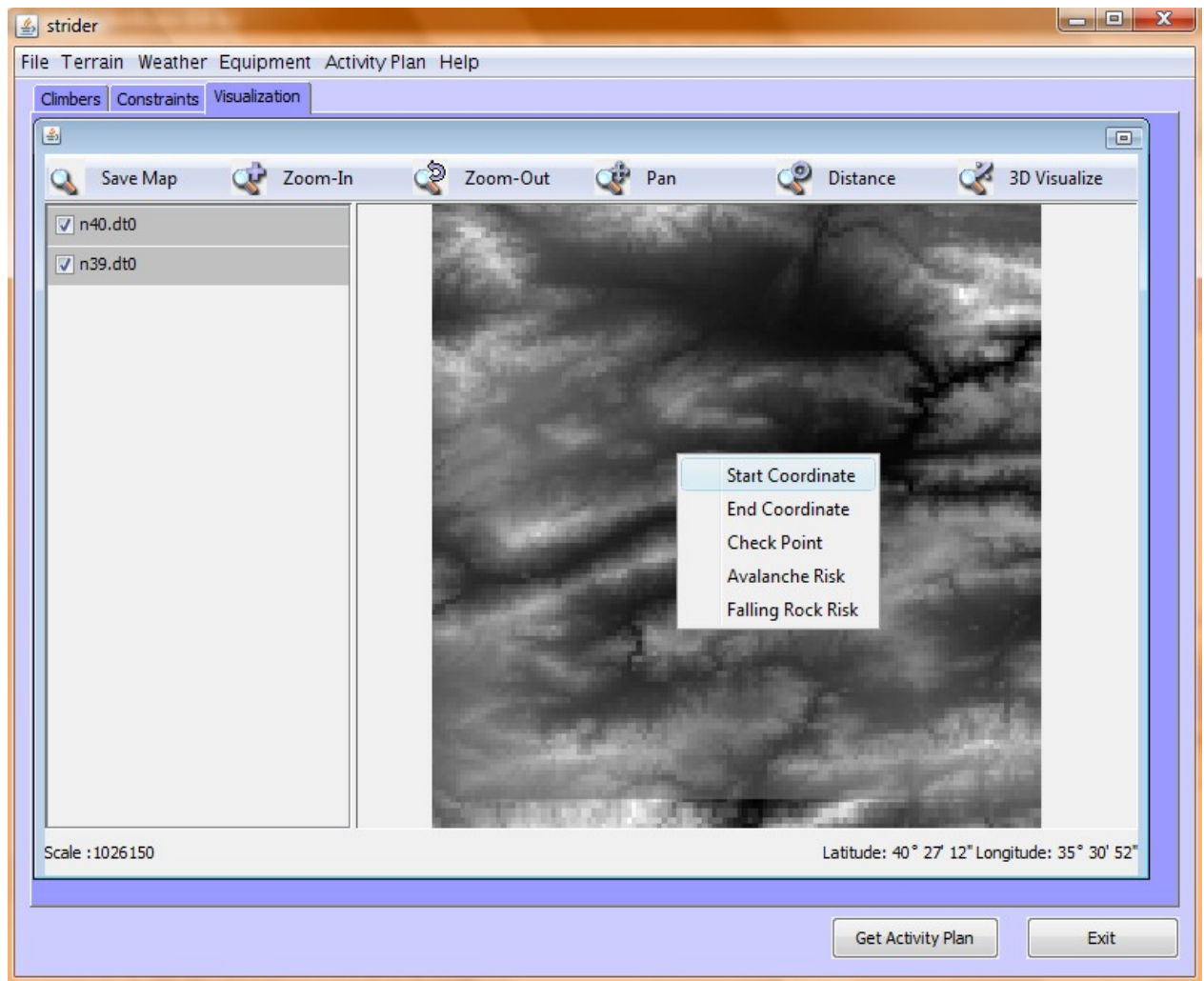
Figure 6. Marking coordinates
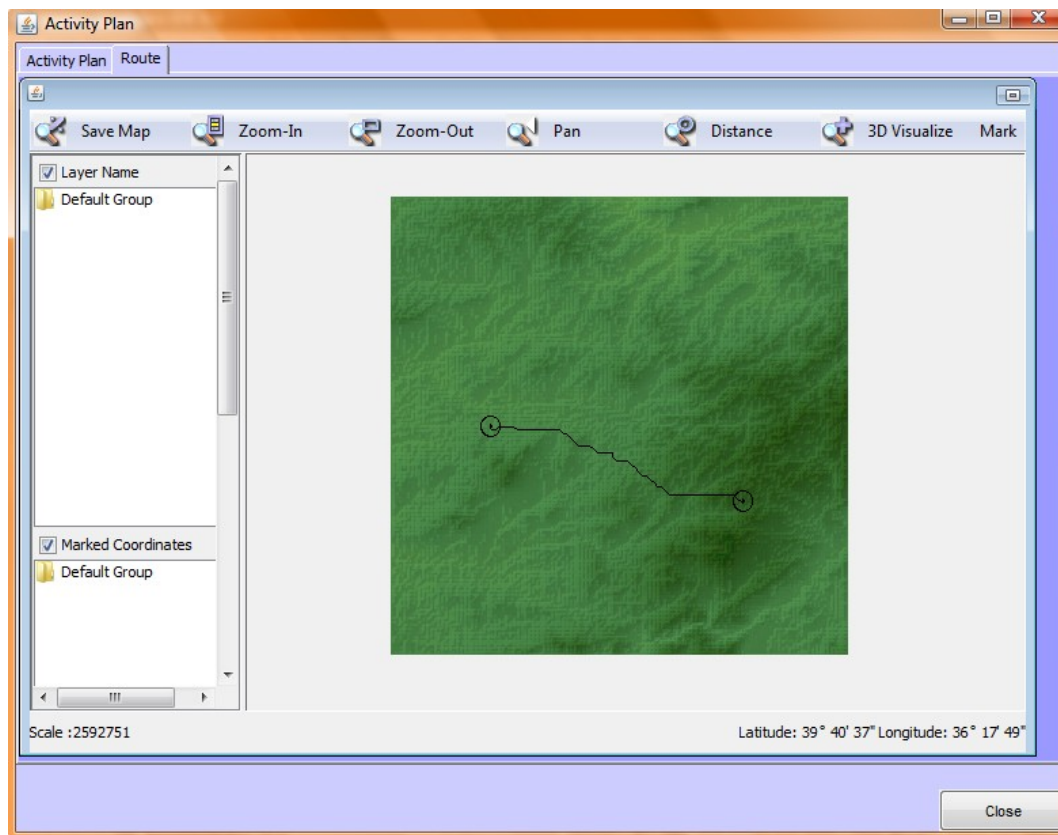

Figure 7. Marked Coordinates
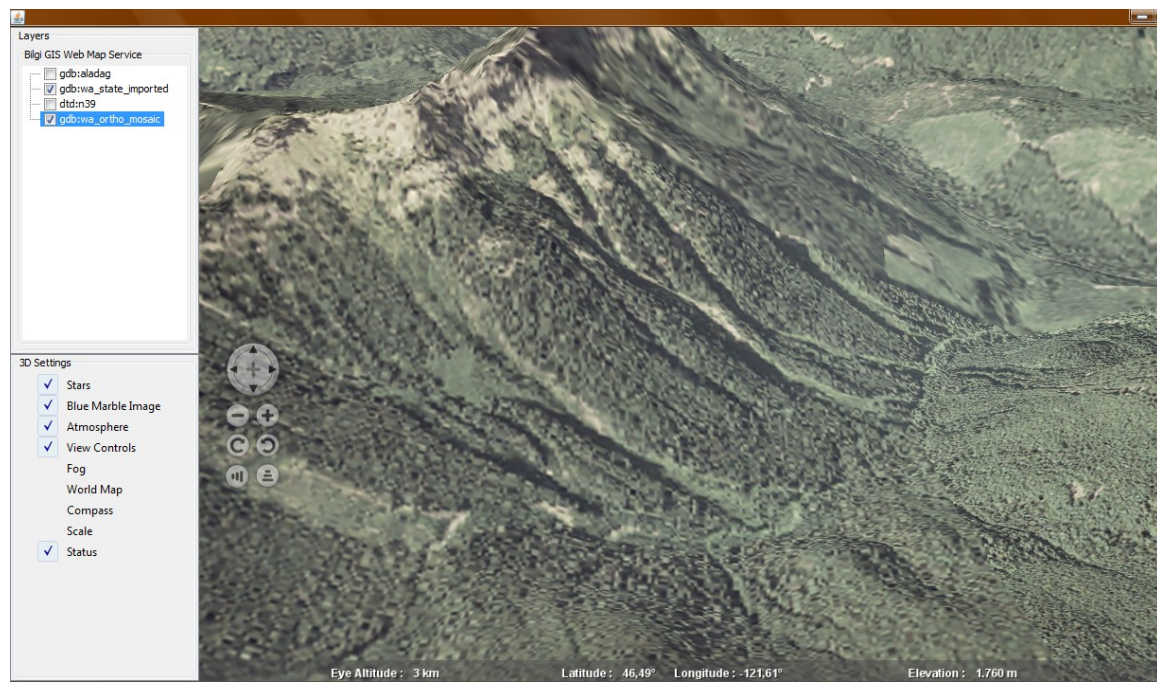
Figure 8. Displaying Route on 2D Terrain

Figure 9. 3D Visualization of Aladag

Figure 10. Another 3D Visualization