

Budget Justification

This budget represents a 3 year cumulative budget. The division between participating organizations is:

Florida State University:	\$598,525 over 3 years
Boston University:	\$375,000 over 3 years
Brown University:	\$345,000 over 3 years
Colorado University:	\$270,000 over 3 years
USC(including SCEC):	\$930,000 over 3 years
Total:	\$2,518,525 over 3 years (approximately \$840K per year)

The **Florida State University** Budget supports

- 1 Summer Month a year for Principal Investigator Fox
- 1 Full year Postdoc at \$45,000 per year (listed as a total of \$135,000 for 3 years)
- 2 Graduate Research Assistantships
- 2 Undergraduate Research Students including summer research

Fringe Benefits are 18.4% for PI and 8.25% for Postdocs for whom Insurance of \$180 per month is added. Fringe benefits are 0.6% for students.

There is Tuition of \$2000 per year for each graduate student with is recorded in Item G6.

Overhead is charged on Total Direct Costs excepting tuition and all but the First \$25000 of each of 4 subcontracts

The **USC Contribution** breaks into 3 components:

Co-PI Andrea Donnellan activity	\$225,000
Outreach activity led by senior personnel Jill Andrews	\$195,000
Funding for Senior Personnel at sites supported by SCEC (other senior personnel listed in proposal)	\$510,000

The SCEC Site funding will be assignment by project management to satisfy the 9 identified tasks with personnel as suggested below.

Initial Roles of PI's and Senior Personnel

Earth Science TimeFrames

1. Real Time Science

Leader: Donnellan

Donnellan, Henyey, Kanamori, Jordan, Minster, Grant, Beroza

2. HPCC Simulations & Data Integration

Leaders: Tullis & Rundle

Tullis, Rundle, Rice, Ben-Zion, Beroza, Jordan, Minster, Kanamori, Grant

3. Fundamental Theory and Complex Systems

Leaders: Klein, Ben-Zion, Rundle

Klein, Rundle, Sammis, Ben-Zion, Minster, Giles

Computational Science

1. **Basic Distributed Object Framework**

Leader: Fox

Fox, Giles, Donnellan, Minster, Laidlaw

2. **Real Time HPCC Simulations**

Leader: Giles

Giles, Klein, Minster, Tullis, Rundle

3. **Multisensor Metadata**

Leaders: Donnellan & Grant

Donnellan, Grant, Kanamori, Beroza, Jordan, Ben-Zion, Sammmis, Henyey

4. **Data & Simulation Visualization**

Leader: Laidlaw

Laidlaw, Giles, Minster, Jordan, Donnellan, Grant

5. **Interactive Data Mining**

Leaders: Rundle, Jordan, Fox

Rundle, Jordan, Fox, Ben-Zion, Sammis, Donnellan, Beroza, Giles

Outreach

Leaders: Andrews & Donnellan

Andrews, Donnellan, Fox.