



Massachusetts Institute of Technology Center for Space Research

Coral Reef Mission

43-04002.0101 Rev 01
10 April 2002

Emendations to the Solicitation of Industrial Partners Dated 22 March 2002

Based upon questions we have received to our original Solicitation for Industrial Partners, we would like to offer the following clarifications and additional information.

- a. One item of confusion stemmed not from the Solicitation document, *per se*, but from a cover e-mail which originally distributed it. In that e-mail we referred to “Support for Fund Raising”; that term was badly phrased. . We certainly were not asking for investment by the spacecraft provider. What was intended was to include effort by the vendor to assist in developing the Mission Description Document and publishing it in a form suitable for use in fund-raising activities. Participation in the actual securing of funds would be limited to supporting presentations given to major investors, should they request technical details of the flight hardware.
- b. Our \$75M figure was intended to be a total mission cost – instrument, s/c, launch, mission ops, science – without reserve and in 2002 year dollars. We were hoping that the s/c plus launch would consume less than \$50M; if that turns out not to be true, we will (simply) have to raise additional funds.
- c. In Section 2.1 we talk of “reasonable confidence” of having a 10 year mission. Let us be more specific. We wish to have at least an 80% probability of mission success for a 5 year mission with consumables sized for a 10 year mission. We wish to have no credible single point failures. These numbers apply to the spacecraft bus by itself.
- d. The rationale for the delay in funding the spacecraft vendor until January 2004 is as follows. Consider that, on this program, the money is being raised from a variety of sources and will not all be committed on the same day. The intent is that when a modest threshold is met, enough money is available and/or pledged to design and fabricate the instrument; we call this Phase 1. Not until enough money has been raised to fund both spacecraft and launch do we want to start the second phase of the program. (The Phase 3 money for operations, *etc.* will come later.) This is not as perfectly efficient as it might be if all the money were available on the first day, but it seems to us to be a prudent plan. Like all plans, this one will be modified as real life intervenes.

- e. We neglected to specify the number of copies of the response we would require and where to send them. The answer is: 6 copies to

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- f. Costing should be done in constant year 2002 US dollars..