**Report on Visit**

Date

\* Please fill in and submit this form to your host in GRC by e-mail before you leave.

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| **Name (Affiliation, Position/Grade)** |
| **E-mail address:**  |
| **PRIUS Project No.:**  |
| **Travel expenses support:** Supported / Not supported (by own budget) |
| **Visit duration:**  |
| **Name of your host in GRC:**  |
| **Facilities used and operating time:**(Please write down the reference number # and name of facilities you used. See the reference list in the next page. Also, write down operating time (total days and total hours, which have to be the same as those written in the log book of each facility. “Minutes” should be counted as “1 hour”) and the total number of users (the number(s)×day(s), e.g. 1 person × 5 days = 5 people). |
| **Purpose of visit / Overview of experiments:** |

**List of facilities in GRC**

**I) High pressure apparatuses**

(1) Multianvil apparatus (Orange-1000)

(2) Multianvil apparatus (Orange-2000)

(3) Multianvil apparatus (Orange-3000)

(4) Multianvil apparatus (Botchan-6000)

(5) D-DIA Multianvil apparatus (Madonna I)

(6) D-DIA Multianvil apparatus (Madonna II)

(7) Diamond anvil Cell (DAC)

(8a) Laser-heating system (Fiber laser) for DAC

(8b) Laser-heating system (CO2 lasers) for DAC

(9) Sound velocity (Ultrasonic) measurement system for multianvil apparatus (TDS5104)

**II) Facilities for micro-analysis**

(10a) FE-SEM equipped with EDS (JSM-7000F)

(10b) FE-SEM equipped with EBSD (JSM-7000F)

(11) SEM-EDS (JSM-6510LV)

(12) SEM-EDS (JSR-1000)

(13) FE-TEM equipped with EDS (JEM-2100F)

(14) TEM (LaB6 filament-type) (JEM-2010)

(15) Dual-beam FIB (Scios)

(16) FIB (single-beam) (JEM-9310FIB)

(17) Micro-focused XRD (RAPIDII-V/DW)

(18) Powder XRD (UltimaIV/DD)

(19) Micro-Raman system ((1) NRS-5100gr; (2) RSM 800)

(20) FT-IR (Spectrum One)

(21) UV-VIS Spectrometer (V-670)

**III) Processing machines, etc.**

(22) Ultrasonic processing device (UM-150CS)

(23) Electric furnace (Large: ATCM50-100/1700; Small: TS-4B06)

(24) Micro-Vickers hardness tester (HMV-G21DT)

**IV) Simulation codes**

(25) Simulation code for physical properties of mineral

(26) Simulation code for computational fluid

(27) Other facilities (Write down the name of each facility you used)

**Report on Visit**

**(Example)**

Date 25 May, 2014

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| **Name (Affiliation, Position/Grade)**Taro Matsuyama (Tokyo University, Professor)Hanako Ehime (Tokyo University, D2) |
| **E-mail address:** matsuyama@... (← only for representative) |
| **PRIUS Project No.:** 2014A01 (← if applicable) |
| **Travel expenses support:** Supported |
| **Visit duration:** 5/20/2014 – 5/24/2014 |
| **Name of your host in GRC:** Tetsuo Irifune |
| **Facilities used and operating time:**(Please write down the reference number # and name of facilities you used. See the reference list in the next page. Also, write down operating time (total days and total hours, which have to be the same as those written in the log book of each facility. “Minutes” should be counted as “1 hour”) and the total number of users (the number(s)×day(s), e.g. 1 person × 5 days = 5 people).(2) Multianvil apparatus (Orange-2000), 2 days, 24 hours, 4 people (2 people × 2 days)(11) SEM-EDS (JEOL, JSM-6510LV), 1 day, 2 hours, 2 people(17) Micro-focused XRD, 1 day, 5 hours, 2 people |
| **Purpose of visit / Overview of experiments:** We carried out two high pressure experiments at 15 GPa and 1200°C to synthesize wadsleyite using Mg2SiO4 olivine as a starting material. The products were identified to be pure wadsleyite by micro-focused XRD and SEM-EDS measurements. The samples will be used for sound velocity measurements in the next visit. |