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פרופ' ארנון קרניאלי

המעבדה לחישה מרחוק
המכונים לחקר המדבר ע"ש יעקב בלאושטיין
אוניברסיטת בן-גוריון בנגב
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Science from Above

September 11, 2018

Dear Colleagues,

Re: VEN μ S periodic news – September 2018

Below is the latest update from the VEN μ S project.

1. Images have been continuously received at the VEN μ S Scientific Center. Till the end of August, 1095 L1 images were archived, about 40 images per tile. L2 and L3 have been produced and distributed upon request and will be distributed through the website by the beginning of October, 2018.
2. The call for proposals for the VEN μ S mission international sites for Israeli scientists has been announced by the Ministry of Science and Technology. Attached is the call with ancillary material (i.e., Excel file and GoogleEarth file of the areas covered by the satellite). Deadline – Oct. 07, 2018. Please don't upload the applications online but send them directly to the VEN μ S Scientific Center (venus@post.bgu.ac.il). Note that this application is for receiving the images but not for funding the research itself.
3. The 1st International VEN μ S will be held at Sede Boker on Nov. 21-22, 2018. This meeting will be devoted to state-of-the-art presentations by French and Israeli scientists as well as workshops on selected topics (e.g., calibration, atmospheric corrections, and more). We aware that most of the studies are in their initial stages, nevertheless, this meeting is important since it will provide an opportunity to knowledge transfer, assimilation of new image processing methods, feedbacks from the audiences, and for strengthening the scientific relations with France. In this regard, we ask you to send abstracts of your projects (about 200 words), for oral and poster presentations, until September 30, 2018. Even preliminary results are welcome!
4. A question below was about VEN μ S was asked in the summer 2018 high school matriculation exam. Can you solve it?

פיזיקה, קיץ תשע"ח

סוכנות החלל הישראלית בשיתוף עם סוכנות החלל הצרפתית שיגרו באוגוסט 2017 לוויין זעיר שמכונה (Vegetation & Environment New Micro Satellite) VEN μ S) למטרות תצפית ומחקר מדעי ייחודי. הלוויין מצויד באמצעים טכנולוגיים משוכללים, שחלקם פותחו ויוצרו בישראל. הלוויין יצלם מהחלל, בין השאר, שדות וחלקות אדמה לצורך מחקרים של ניטור מצב הקרקע, הצמחייה ואיכות המים.

הנח כי הלוויין ינוע במסלול מעגלי שרדיוסו $r = 7100\text{km}$.

א. חשב את תאוצת הנפילה החופשית של הלוויין במהלך תנועתו (גודל וכיוון)

ב. חשב את זמן המחזור ואת המהירות המשיקית של הלוויין.

Solution will be published in the next Newsletter.

5. If you miss the previous Newsletter, please notify us at venus@post.bgu.ac.il
6. If you know a colleague that accidentally is missing from the mailing list, please notify us at venus@post.bgu.ac.il
7. If you want to unsubscribe from the mailing list, please send an e-mail to venus@post.bgu.ac.il

Regards,

Manuel and Arnon

