### CURRICULUM VITAE – DONALD GAYDON

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| **Academic Qualifications** | | |
| 2012 | | PhD**,** Wageningen University, The Netherlands (Title: *Living with Less Water: development of viable adaptation options for Riverina Irrigators*) |
| 1994  1988 | | M.Eng, University of Southern Queensland, Toowoomba, Q (Degree by thesis. Title: Optimization of s*tage-loaded in-storage crop-dryers using solar energy*)  B.Eng (Agric), Darling Downs Institute of Advanced Education, Toowoomba, Q |
| **Employment history** | | |
| 2017- now  2010-2017 | | Principal Research Scientist, CSIRO, Brisbane  Senior Research Scientist, CSIRO, Brisbane |
| 2006-9 | | Farming Systems Researcher, CSIRO, Canberra (and The Netherlands) |
| 1999-2005  1997-1999  1992-1996  1989-1991 | | Simulation Model Development Officer, CSIRO, APSIM Software Engineering Group, Brisbane.  Own business – performing musician, Brisbane-Gold Coast.  Research Engineer, Nursery Mechanisation, Queensland Department of Primary Industries, Cleveland.  Research Engineer, Solar Grain Drying, Queensland Department of Primary Industries, Toowoomba. |
| **Invitations - International** | | |
| 2017  2016  2015 | | In recognition of his international status as an expert in rice irrigation science, Don was invited to author – book chapter (Title: Advances in Irrigation Techniques for Rice Cultivation) in book “Achieving Sustainable Rice Cultivation” by Burleigh-Dodds Publishers (Cambridge, UK), 2017.  Guest lecture, International Rice Research Institute (to all staff), title: “IRRI-CSIRO collaboration in cropping systems modelling” (October)  Guest lecture, International Rice Research Institute (to all staff), title: “Evaluation of the APSIM model in cropping systems of Asia” (April) |
| 2014  2009  2009 | | Invited speaker, International Rice Congress, Bangkok71  Invited paper status (top 4% papers) awarded at MODSIM 2009, Cairns88  Invited Session Organiser, Irrigation component, Farming Systems Design 2009 Conference, Monterey, California, USA. |
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| **Professional awards, fellowships and recognition** | | |
| 2016 | | Certificate of Appreciation, International Rice Research Institute (IRRI), Philippines |
| 2015  2014  2012 | | Certificate of Appreciation, IRRI  CSIRO Achievement Award – Adaptation to Climate Change in Asia Teamj  European Society of Agronomy, Journal Paper of the Month, September 201219 |
| 2012  2008 | | CSIRO Ecosystem Sciences, Non-Cash Reward – awarded with the following statement: “For outstanding science output relating to irrigation efficiency from his PhD dissertation and for developing rice modelling capability that links an internationally respected crop model (Oryza) to APSIM to provide the systems capability that enables CES to play a leading role in climate adaptation research in Asia.”  Wageningen University PE&RC Visiting Scientist Scholarship |
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| 2007  2006  2006 | | CSIRO Chief Executive’s Study Award  CSIRO Sustainable Ecosystems (CSE) Teamwork Award – APSIM Software Engineering Group  CSE non-cash award |
| **Other appointments and responsibilities** | | |
| 2017-  2016- | | Member Editorial Board, *Field Crops Research* journal (Elsevier)  CSIRO representative and co-chair of Primary Industries Steering Committee (PISC) for the national “Water Use in Agriculture” RD&E Strategy (recommended by Hamish Cresswell as his replacement in this role, Feb 2016) |
| 2016- | | Member Editorial Board, *Agricultural Systems* journal (Elsevier) |
| 2016-  2012- | | Adjunct Associate Professor, University of Queensland, School of Agriculture and Food Sciences  *Go-to* person for a number of high-ranking international agricultural journals for reviewing submissions related to rice-based cropping systems and modelling. These include Global Change Biology, Field Crops Research, Agriculture Ecosystems and Environment, Agricultural Systems, European Journal of Agronomy, Agricultural Water Management, Irrigation Science, Climatic Change, and others (total papers reviewed in 2016-17: 20) |
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| **Staff & Student supervision since 2010** | | |
| 2018 - PhD student Uwe Drewer (Germany) – University of Queensland  2017- PhD student Sarita Mandahar (Nepal) – University of Queensland  2016- PhD student Apurbo Chaki (Bangladesh) – University of Queensland  2016- PhD student Sukamal Sarker (India) – BCKV, University of West Bengal, India  2012-16 PhD student Jahangir Kabir (Bangladesh) – University of Queensland (graduated) | | |  |
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**APPENDIX: Externally funded projects since appointment**

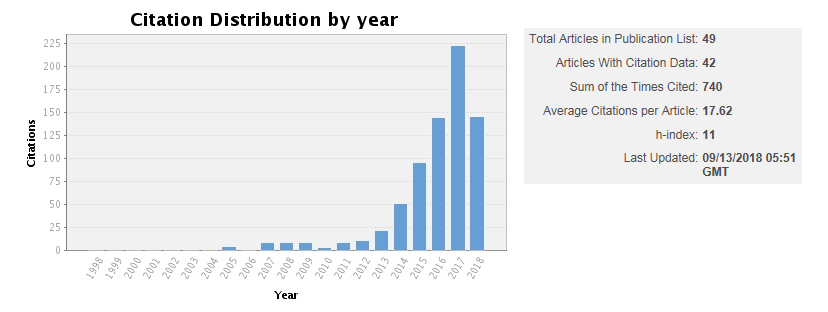
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| --- | --- | --- | --- | --- | --- | --- |
| **Project title** | **Partners** | **Funding agency** | **Principal researchers** | **Term** | **Project Funds ($k)** | **Funds to CSIRO ($k)** |
| ***… As Principal investigator*** |  |  |  |  |  |  |
| 1. ACIAR Adoption Study for SAARC-Australia Project | CSIRO | ACIAR | **Gaydon** | 2017-18 | 23 | 23 |
| 1. Risk and resilience of crop production on the East India Plateau | CSIRO, UWS, GCI-UQ, PRADAN | Global Change Institute (GCI-UQ) | **Gaydon**, Laing (CSIRO); Bellotti (GCI-UQ), Unkovitch (UWS) | 2017-18 | 135 | 90 |
| 1. LWR/2010/033 - Developing capacity in cropping systems modelling to promote food security and the sustainable use of water resources in South Asia (also known as the “SAARC-Australia Project”) | CSIRO, IRRI, SAARC Agriculture Centre | ACIAR | **Gaydon**, Roth, Poulton (CSIRO); Balwinder-Singh, Elizabeth Humphries (IRRI); Azad, Saiyed (SAARC Agriculture Center, Dhaka) | 2010-13 | 945 | 320 |
| 1. Increasing the resilience of Eastern Australian irrigated farm businesses | CSIRO, QDPI, NSW DPI | LWA – National Program for Sustainable Irrigation | **Gaydon** (CSIRO), Rodriguez, Power (QDPI), Dunn, Beecher (NSW DPI) | 2007-12 | 1 283 | 450 |
| 1. Seasonal Climate Forecasting in Irrigated Cropping | CSIRO | CSIRO | **Gaydon**, Crimp, Kokic, Jin, Howden (CSIRO) | 2008-11 | 240 | strategic |
| 1. Adapting to Climate Change: potential future water management strategies for Riverina broad-acre irrigators and the impacts on biodiversity and production | CSIRO, NSW DPI, Ricegrowers Association of Australia (RGA) | National Agriculture and Climate Change Action Plan Implementation Program, DAFF | **Gaydon,** McIntyre,Arthur, McGinness, Howden (CSIRO) | 2008- | 1 700 | 800 |
| **Total** |  |  |  |  | **$4.33M** | **$1.68M** |

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| ***… As Co-investigator (and projects in which APSIM-Oryza model is a critical component)*** | | | |  |  |  |
| 1. Cropping system intensification in the salt-affected coastal zones of Bangladesh and West Bengal, India (known as “CSI4CZ Project”) – ACIAR LWR/2014/73 | CSIRO, Murdoch Uni, BARI, BRRI, IWM, Khulna Uni, ICAR, BCKV Uni | ACIAR, KGF (Krishi Gobeshona Foundation, Bangladesh) | Mainuddin**,** **Gaydon**, Glover (CSIRO); Bell, Barrett-Lennard (Murdoch Uni, WA); Razzaque (BARI); Ali (BRRI), Hossain (IWM); Kabir (Khulna University); Maji (ICAR); Brahmachari (BCKV Uni, West Bengal) | 2015-20 | 2 720 | 860 |
| 1. Sustainable and resilient farming systems intensification in the eastern Gangetic Plains (‘SRFSI’) – ACIAR CSE/2011/077 | CIMMYT, CSIRO, UQ, BARC, BARI, BRRI, ICAR, BAU…. + numerous regional partners | ACIAR | Tiwari**,** Gathala (CIMMYT); Brown, **Gaydon**, Poulton, Laing, Darbas (CSIRO); Menzies (UQ) | 2014-18 | 7 300 | 612 |
| 1. Sustainable Development Investment Portfolio (SDIP) – Asia (2012-20) | CSIRO and regional partners | DFAT | Wallbrink**,** Podger, Ahmad, Mainuddin, **Gaydon**, + others (CSIRO) | 2016-20 | 42 000 | 20 000 |
| 1. Developing multi-scale climate change adaptation strategies for farming communities in Cambodia, Laos, Bangladesh and India (known as “ACCA Project”) – ACIAR LWR/2008/019 | CSIRO, IRRI, numerous regional partners from South and South-East Asia | ACIAR | Roth**,** Dalgliesh, Hochman, **Gaydon**, Poulton, Brown, Laing, Williams | 2010-15 | 5 251 | 3 800 |
| **Total** |  |  |  |  | **$57.27M** | **$25.27** |

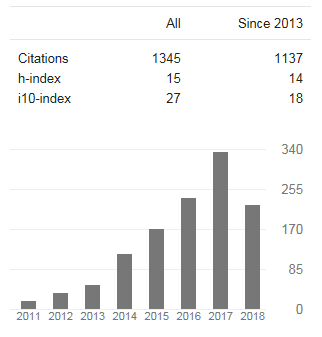
### CITATIONS AND PUBLICATIONS

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| --- | --- | --- |
| Category | Total | Since achieving CSOF6 (2010) |
| Total number of publications | 130 | 58 |
| Journal research articles (pub) | 36 | 32 |
| Journal research articles (in-review)  Books & book chapters | 2  9 | 2  9 |
| Reports | 23 | 4 |
| Conference papers | 38 | 11 |
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**ResearcherID report** (13/09/2018)



**Google Scholar report** (13/09/2018) – noted because due to the rice-oriented nature of much of my recent work, quite a few citations from South Asian Scientists in South Asian journals (indicating regional impact) are not counted in ISI citations, hence missed by ResearcherID.



1. **Publication record**

**Refereed journal publications**

1. Radanielson, A.M., **Gaydon, D.S**., Khan, A.S.M.M.R., Chaki, A.K., Rahman, Md.A., Angeles, O., Li, T., Ismail, A.M., 2016. Varietal improvement options for higher rice productivity in salt affected areas using crop modelling, *Field Crops Research* (in press)
2. Radanielson, A.M, **Gaydon, D.S.**, Li, T., Angeles, O., Roth, C.H., 2018. Modeling salinity effect on rice growth and rice yield with ORYZA v3 and APSIM-Oryza, *European Journal of Agronomy* (accepted; in press) <https://doi.org/10.1016/j.eja.2018.01.015>
3. Nurulhuda, K., Gaydon, D. S., Jing, Q., Zakaria, M. P., Struik, P. C. and Keesman, K. J., 2018. Nitrogen dynamics in flooded soil systems: an overview on concepts and performance of models. *Journal of the Science of Food and Agriculture*, 98, pp 865–871. doi:10.1002/jsfa.8683
4. Kabir, J., **Gaydon, D.S.**, Cramb, R., Roth, C.H., 2018. Bio-economic evaluation of cropping systems for saline coastal Bangladesh: I Biophysical simulation in historical and future environments, *Agricultural Systems*, 162, pp.107-122.
5. Kabir, J., Cramb, R., **Gaydon, D.S.**, Roth, C.H., 2017. Bio-economic evaluation of cropping systems for saline coastal Bangladesh: II. Economic viability in historical and future environments, *Agricultural Systems*, 155, pp.103-115.
6. Kabir, J., Cramb, R., **Gaydon, D.S.**, Roth, C.H., 2018. Bio-economic evaluation of cropping systems for saline coastal Bangladesh: III Benefits of adaptation in current and future environments, *Agricultural Systems*, 161, pp.28-41.
7. Radanielson, A.M., Angeles, O., Li, T., Ismail, A.M., **Gaydon, D.S.**, 2018. Describing the physiological responses of different rice genotypes to salt stress using sigmoid and piecewise linear functions, *Field Crops Research* 220, 46-56. <https://doi.org/10.1016/j.fcr.2017.05.001>
8. Hasegawa, T., Li, T., Yin, X., Zhu, Y., Boote, K., Baker, J., Bregaglio, S., Buis, S., Confalonieri, R., Fugice, J., Fumoto, T., **Gaydon, D.**, Kumar, S.N., Lafarge, T., Marcaida Iii, M., Masutomi, Y., Nakagawa, H., Oriol, P., Ruget, F., Singh, U., Tang, L., Tao, F., Wakatsuki, H., Wallach, D., Wang, Y., Wilson, L.T., Yang, L., Yang, Y., Yoshida, H., Zhang, Z., Zhu, J., 2017. Causes of variation among rice models in yield response to CO2 examined with Free-Air CO2 Enrichment and growth chamber experiments, *Nature - Scientific Reports*, vol. 7, pp. 1-13.
9. Amarasingha, R.P.R.K., Suriyagoda, L.D.B., Marambe, B., Rathnayake, W.M.U.K., **Gaydon, D.S.**, Galagedara, L.W., Punyawardena, R., Silva, G.L.L.P., Nidumolu, U., Howden, S.M., 2017. Improving water productivity in moisture-limited rice-based cropping systems through incorporation of maize and mungbean: A modelling approach, *Agricultural Water Management*, 189, pp.111-122.
10. **Gaydon, D.S.**, Balwinder-Singh, Wang, E., Poulton, P.L., Ahmad, B., Ahmed, F., Akhter, S., Ali, I., Amarasingha, R., Chaki, A.K., Chen, C., Choudhury, B.U. , Darai, R., Das, A., Hochman, Z., Horan, H., Hosang, E.Y., Kumar, P.V., Khan, A.S.M.M.R., Laing, A.M., Liu, L., Malaviachichi, M.A.P.W.K., Mohapatra, K.P., Muttaleb, Md. A., Power, B., Radanielson, A.M., Rai, G.S., Rashid, Md. H., Rathanayake, W.M.U.K., Sarker, M.M.R., Sena, D.R., Shamim, M., Subash, N., Suriyagoda, L.D.B., Wang, G., Wang, J., Yadav, R.K., Roth, C.H., 2017. Evaluation of the APSIM model in cropping systems of Asia, *Field Crops Research* 204, pp52-75.
11. Hochman, Z., Horan, H., Reddy, D.R., Sreenivas, G., Tallapragada, C., Adusumilli, R., **Gaydon, D.S.**, Singh, K.K., Roth, C.H., 2017a. Smallholder farmers managing climate risk in India: 1. adapting to a variable climate, *Agricultural Systems* 150, pp54–66.
12. Hochman, Z., Horan, H., Reddy, D.R., Sreenivas, G., Tallapragada, C., Adusumilli, R., **Gaydon, D.S.**, Laing, A., Kokic, P., Singh, K.K., Roth, C.H., 2017b. Smallholder farmers managing climate risk in India: 2. is it climate-smart? Agricultural Systems 151, 61–72
13. Confalonieri, R., Bregaglio, S., Adam, M., Ruget, F., Li, T., Hasegawa, T., Yin, Z., Zhu, Y., Boote, K., Buis, S., Fumoto, T., **Gaydon, D.**, Lafarge, T., Marcaida, M., Nakagawa, H., Ruane, A.C., Balwinder-Singh, Singh, U., Tang, L., Tao, F., Fugice, J., Yoshida, H., Zhang, Z., Wilson, L.T., Baker, J., Yang, Y., Masutomi, Y., Wallach, D., Acutis, M., Bouman, B.A.M., 2016. A taxonomy-based approach to shed light on the babel of mathematical analogies for rice simulation, *Environmental Modelling and Software* 85, pp332-341.
14. Balwinder-Singh, Humphreys, E., **Gaydon, D.S.** and Eberbach, P.L., 2016. Evaluation of the effects of mulch on optimum sowing date and irrigation management of zero till wheat in central Punjab, India using APSIM. *Field Crops Research* 197, pp83-96.
15. Makowski, D., Asseng, S., Ewert, F., Bassu, S., Durand, J.-L., Li, T., Martre, P., Adam,M., Aggarwal, P.K., Angulo, C., Baron, C., Basso, B., Bertuzzi, P., Biernath, C.,Boogaard, H., Boote, K.J., Bouman, B., Bregaglio, S., Brisson, N., Buis, S.,Cammarano, D., Challinor, A.J., Confalonieri, R., Conijn, J.G., Corbeels, M.,Deryng, D., De Sanctis, G., Doltra, J., Fumoto, T., **Gaydon, D.S.**, Gayler, S., Goldberg,R., Grant, R.F., Grassini, P., Hatfield, J.L., Hasegawa, T., Heng, L., Hoek, S., Hooker,J., Hunt, L.A., Ingwersen, J., Izaurralde, R.C., Jongschaap, R.E.E., Jones, J.W.,Kemanian, R.A., Kersebaum, K.C., Kim, S.H., Lizaso, J., Marcaida Iii, M., Müller,C., Nakagawa, H., Naresh Kumar, S., Nendel, C., O’Leary, G.J., Olesen, J.E., Oriol,P., Osborne, T.M., Palosuo, T., Pravia, M.V., Priesack, E., Ripoche, D., Rosenzweig,C., Ruane, A.C., Ruget, F., Sau, F., Semenov, M.A., Shcherbak, I., Singh, B., Singh,U., Soo, H.K., Steduto, P., Stöckle, C., Stratonovitch, P., Streck, T., Supit, I., Tang,L., Tao, F., Teixeira, E.I., Thorburn, P., Timlin, D., Travasso, M., Rötter, R.P., Waha,K., Wallach, D., White, J.W., Wilkens, P., Williams, J.R., Wolf, J., Yin, X., Yoshida,H., Zhang, Z., Zhu, Y., 2015. A statistical analysis of three ensembles of crop model responses to temperature and CO2 concentration. *Agricultural and Forest Meteorology* 214, pp483–493, <http://dx.doi.org/10.1016/j.agrformet.2015.09.013> .
16. Amarasingha, R.P.R.K., Suriyagoda, L.D.B., Marambe, B., **Gaydon, D.S.,** Galagedara, L.W., Punyawardena, R., Silva, G.L.L.P., Nidumolu, U., Howden, M., 2015. Simulation of crop and water productivity for rice (Oryza sativa L.) using APSIM under diverse agro-climatic conditions and water management techniques in Sri Lanka, *Agricultural Water Management* 160, 132–143.
17. Balwinder-Singh, Humphreys, E., Sudhir-Yadav, **Gaydon, D.S.,** 2015. Options for increasing the productivity of the rice-wheat system of north-west India while reducing groundwater depletion. Part 1. Rice variety duration, sowing date and inclusion of mungbean, *Field Crops Research* 173, 68-80.
18. Balwinder-Singh, Humphreys, E., **Gaydon, D.S.**, Sudhir-Yadav, 2015. Options for increasing the productivity of the rice-wheat system of north-west India while reducing groundwater depletion. Part 2. Is conservation agriculture the answer? *Field Crops Research* 173, 81-94.
19. Li, T., Hasegawa, T., Yin, X., Zhu, Y., Boote, K.J., Adam, M., Bregaglio, S., Buis, S., Confalonieri, R., Fumoto, T., **Gaydon, D.S.,** Marcaida, M., Nakagawa, H., Oriol, P., Ruane, A.C., Ruget, F., Balwinder-Singh, Singh, U., Tang, L., Tao, F., Wilkens, P.W., Yoshida, H., Zhang, Z., and Bouman, B.A.M., 2015. Crop-model ensembles reduce uncertainty in predicting rice yield under climate change, *Global Change Biology* 21(3), pp 1328–1341.
20. Holzworth, D.P., Huth, N.I., deVoil, P.G., Zurcher, E.J., Herrmann, N.I., McLean, G., Chenu, K., van Oosterom, E., Snow, V., Murphy, C., Moore, A.D., Brown, H., Whish, J.P.M., Verrall, S., Fainges, J., Bell, L.W., Peake, A.S., Poulton, P.L., Hochman, Z., Thorburn, P.J., **Gaydon, D.S.,** Dalgliesh, N.P., Rodriguez, D., Cox, H., Chapman, S., Doherty, A., Teixeira, E., Sharp, J., Cichota, R., Vogeler, I., Li, F.Y., Wang, E., Hammer, G.L., Robertson, M.J., Dimes, J., Carberry, P.S., Hargreaves, J.N.G., MacLeod, N., McDonald, C., Harsdorf, J., Wedgwood, S., Keating, B.A., 2014. APSIM - Evolution towards a new generation of agricultural systems simulation, *Environmental Modelling and Software* 62, 327-350.
21. Subash, N., Shamim, M., Singh, V. K., Gangwar, B., Balwinder-Singh, **Gaydon, D.S.,** Roth, C.H., Poulton, P.L., Sikka, A.K., 2014. Applicability of APSIM to capture the effectiveness of irrigation management decisions in rice-based cropping sequence in the Upper-Gangetic Plains of India, *Paddy and Water Environment* 13(4), 325-335. (DOI 10.1007/s10333-014-0443-1).
22. Rashid, M.H., Afroz, S., **Gaydon, D.S.,** Muttaleb, A., Poulton, P.L., Roth, C.H., Abedin, M.Z. 2014. Climate Change Perception and Adaptation Options for Agriculture in Southern Khulna of Bangladesh, *Applied Ecology and Environmental Sciences* 2(1), 25-31.
23. Hochman, Z., Carberry, P.S., Robertson, M.J., **Gaydon, D.S.,** Bell, L.W., McIntosh, P.C., 2013, Prospects for ecological intensification of Australian agriculture, *European Journal of Agronomy* 44, 109-123.
24. **Gaydon, D.S.,** Meinke, H., Rodriguez, D., McGrath D.J., 2012. Comparing water options for irrigation farmers using Modern Portfolio Theory, *Agricultural Water Management* 115, 1-9.
25. **Gaydon, D.S.,** Probert, M.E., Buresh, R.J., Meinke, H., Suriadi, A.., Dobermann, A., Bouman, B.A.M., Timsina, J., 2012. Rice in cropping systems - Modelling transitions between flooded and non-flooded soil environments, *European Journal of Agronomy* 39, 9-24.
26. **Gaydon, D.S.,** Probert, M.E., Buresh, R.J., Meinke, H., Timsina, J., 2012. Capturing the role of algae in rice crop production and soil organic carbon maintenance, *European Journal of Agronomy* 39, 35-43.
27. **Gaydon, D.S.,** Meinke, H., Rodriguez, D., 2012. The best farm-level irrigation strategy changes seasonally with fluctuating water availability, *Agricultural Water Management* 103, 33– 42.
28. Balwinder-Singh, **Gaydon, D.S.,** Humphreys, E., Eberbach, P.L., 2011. The effects of mulch and irrigation management on wheat in Punjab, India—Evaluation of the APSIM model, *Field Crops Research* 124(1), 1-13.
29. Brown P.R., Phung, M.T., **Gaydon D.S.,** 2011. Rats in rice: linking crop and pest models to explore management strategies, *Wildlife Research* 38, 560–567.
30. Dunn B.W., **Gaydon D.S.,** 2011. Rice growth, yield and water productivity responses to irrigation scheduling prior to the delayed application of continuous flooding in south-east Australia, *Agricultural Water Management* 98, 1799–1807
31. Mcintyre, S., McGinness, H.M., **Gaydon, D.S.,** Arthur, A.D., 2011. Introducing irrigation efficiencies: prospects for water-dependent biodiversity in a rice agro-ecosystem, *Environmental Conservation* 38 (3), 353–365.
32. Park, S.E., Howden, S.M., Crimp, S.J., **Gaydon, D.S**., Attwood, S.J., Kokic, P.N., 2010. More than eco-efficiency is required to improve food system security, *Crop Science* 50(2), 132-141.
33. Paydar, Z., **Gaydon, D.S.,** Chen, Y., 2009. A methodology for up-scaling irrigation losses, *Irrigation Science* 27(5), 347-356.
34. Robertson, M.J., **Gaydon, D.S.,** Hall, D.J.M., Hills, A, Penny, S., 2005. Production risks and water-use benefits of summer crop production on the south coast of Western Australia, *Crop and Pasture Science* 56(6), 597-612.
35. Keating B.A., **Gaydon D.S.,** Huth N.I., Probert M.E., Verburg K, Smith C.J., Bond W.J., 2002. Use of modelling to explore the water balance of dryland farming systems in the Murray-Darling Basin, Australia, *European Journal of Agronomy* 18, 159-169.
36. Radajewski W, **Gaydon D.S.,** McGahan E.J., 1990. Optimization of Solar Hay Drying in a Step-Flow Dryer, *Transactions of the American Society of Agricultural Engineers* 33(5), 1423-1431.

**Books and Monographs**

1. **Gaydon, D.S.,** Saiyed, I., Roth, C.R. (Editors), 2014. The SAARC-Australia Project – developing capacity in cropping systems modelling for South Asia, SAARC Agriculture Centre Monograph, SAARC Agriculture Centre (SAC), BARC Campus, Farm Gate, Dhaka-1215, Bangladesh, 259 pages, ISBN: 978-984-33-7469-1 <http://www.saarcagri.org/index.php?option=com_abook&view=book&catid=2%3Atechnical-publications&id=175%3Asac-monograph&Itemid=246>
2. **Gaydon, D.S.,** 2012. Living with Less Water: Development of viable adaption options for Riverina irrigators. Ph.D thesis. Wageningen University, Wageningen, the Netherlands. pp.225. ISBN: 978-94-6173-232-3. <http://library.wur.nl/WebQuery/wda/1987914>

**Book chapters**

1. **Gaydon, D.S.,** Chapter 1. Advances in irrigation techniques for rice cultivation, in Sasaki, Takuji (ed.), Achieving sustainable cultivation of rice Volume 2: Cultivation, pest and disease management, Burleigh Dodds Science Publishing, Cambridge, UK (ISBN: 978 1 78676 028 9; www.bdspublishing.com )
2. **Gaydon, D.S.,** Beecher, H.G., Reinke, R., Crimp, S., Howden, S.M., 2010. Chapter 5 – Rice, in Adapting Australian Agriculture to Climate Change, Edited by C.J. Stokes & S.M. Howden, CSIRO Publishing, Melbourne.
3. Roth, C.H. and **Gaydon, D.S**., 2014. Chapter 1: Introduction to the SAARC-Australia Project, The SAARC-Australia Project – developing capacity in cropping systems modelling for South Asia, SAARC Agriculture Centre Monograph, SAARC Agriculture Centre (SAC), BARC Campus, Farm Gate, Dhaka-1215, Bangladesh, 259 pages, ISBN: 978-984-33-7469-1
4. **Gaydon, D.S**., 2014. Chapter 2: The APSIM Model – An Overview, The SAARC-Australia Project – developing capacity in cropping systems modelling for South Asia, SAARC Agriculture Centre Monograph, SAARC Agriculture Centre (SAC), BARC Campus, Farm Gate, Dhaka-1215, Bangladesh, 259 pages, ISBN: 978-984-33-7469-1.
5. Bashir-Ahmad, **Gaydon, D.S.**, Bhatti, A.A., Ahmad, M.M., Ullah, S., Dahri, Z.H., Ali, I., 2014. Chapter 10: Irrigation Scheduling Impact on Yield of Wheat, Pothowar Region, Pakistan, The SAARC-Australia Project – developing capacity in cropping systems modelling for South Asia, SAARC Agriculture Centre Monograph, SAARC Agriculture Centre (SAC), BARC Campus, Farm Gate, Dhaka-1215, Bangladesh, 259 pages, ISBN: 978-984-33-7469-1.
6. **Gaydon, D.S.,** Roth, C.H., Poulton, P.L., Balwinder-Singh, Saiyed, I., 2014. Chapter 16: A Critical Evaluation of the SAARC-Australia Project, The SAARC-Australia Project – developing capacity in cropping systems modelling for South Asia, SAARC Agriculture Centre Monograph, SAARC Agriculture Centre (SAC), BARC Campus, Farm Gate, Dhaka-1215, Bangladesh, 259 pages, ISBN: 978-984-33-7469-1.
7. Roth, C.H., Humphreys, E., **Gaydon, D.S.**, Poulton, P.L., Saiyed, I., Balwinder-Singh, 2014. Chapter 17: Using Modelling to Explore Options to Increase Crop and Water Productivity in South Asian Rice Based Cropping Systems – A Synthesis, The SAARC-Australia Project – developing capacity in cropping systems modelling for South Asia, SAARC Agriculture Centre Monograph, SAARC Agriculture Centre (SAC), BARC Campus, Farm Gate, Dhaka-1215, Bangladesh, 259 pages, ISBN: 978-984-33-7469-1

**Submitted manuscripts under review** (these are not counted in summary figures)

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**Independent manuscripts published using Don’s APSIM developments as key tools**

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